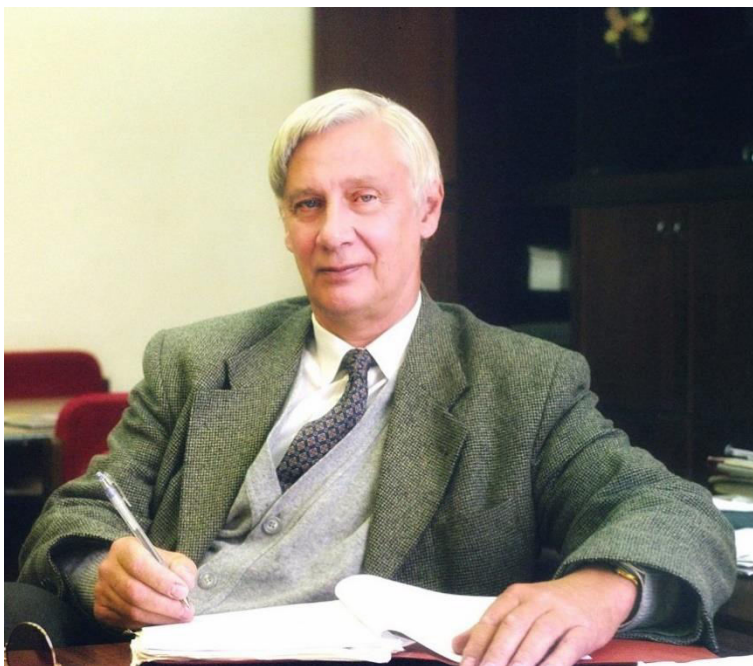


## Вячеслав Васильевич Осико



(28.03.1932 – 15.11.2019)

15 ноября 2019 года на восемьдесят восьмом году жизни после тяжёлой продолжительной болезни скончался академик Российской академии наук (РАН) Вячеслав Васильевич Осико, выдающийся учёный в области физики и химии твёрдого тела, лазерной физики, материаловедения и нанотехнологий, основатель и многолетний директор Научного центра лазерных материалов и технологий Института общей физики имени А.М. Прохорова РАН (НЦ ЛМТ ИОФ РАН).

В.В. Осико родился 28 марта 1932 г. в городе Ленинграде. В 1954 г. окончил Инженерный физико-химический факультет Московского химико– технологического института имени Д.И. Менделеева. В 1955 – 1983 гг. Вячеслав Васильевич работал в Физическом институте имени П.Н. Лебедева Академии наук СССР (АН СССР), где прошел путь от старшего лаборанта до заведующего лабораторией. В 1960 г. защитил кандидатскую диссертацию на соискание учёной степени кандидата химических наук, а в 1968 г. – докторскую диссертацию на соискание учёной степени доктора физико-математических наук. В 1974 г. было присвоено звание профессора.

В 1981 году В.В. Осико был избран членом-корреспондентом АН СССР по Отделению физико-химии и технологии неорганических веществ (специальность «Технология неорганических материалов»), а в 1987 г. избран действительным членом АН СССР по Отделению общей физики и астрономии (специальность "Экспериментальная физика"). С 2011 года являлся действительным членом Отделения нанотехнологий и информационных технологий РАН.

С 1983 года и до конца своих дней Вячеслав Васильевич работал в Институте общей физики АН СССР. В 1997 – 2018 гг. он был руководителем Научного центра лазерных материалов и технологий Института общей физики имени А.М. Прохорова РАН, а с 2018

г. – главным научным сотрудником отдела нанотехнологий НЦ ЛМТ ИОФ РАН.

Основными направлениями научной деятельности В.В. Осико являлись физика и химия твердого тела, лазерная физика, материаловедение и нанотехнологии. Вячеслав Васильевич заложил физические и технологические основы оптического материаловедения, послужившего базисом для новых отраслей науки и техники – физики лазеров и квантовой электроники. Широко известно созданное под его руководством семейство ювелирных кристаллов «Фианит».

Под руководством и при его личном участии была разработана технология наноструктурированной фторидной оптической (в том числе лазерной) керамики. По своим оптическим, спектроскопическим и лазерным характеристикам разработанная керамика соответствует монокристаллам, однако существенно превосходит их по механической прочности в 2–4 раза. Получение фторидной керамики открыло возможность создания оптических приборов, сцинтилляторов и лазеров нового поколения.

На основе разработанного Вячеславом Васильевичем метода прямого высокочастотного нагрева в холодном тигле создана опытно-промышленная технология синтеза высокопрочных, износостойких наноструктурированных кристаллов. Разработана технология механической обработки новых кристаллов и изготовлены опытные партии изделий триботехнического и медицинского назначения. Создана серия электрохирургических аппаратов «Плазмотом» с инструментарием на основе кристаллического наноструктурированного частично стабилизированного диоксида циркония, включающая биполярные электрохирургические ножницы, скальпели и другие инструменты. Аппараты защищены патентами и используются в медицинских учреждениях хирургического профиля.

В последние годы Вячеслав Васильевич активно участвовал в разработке концепции неклассического роста кристаллов путем направленной агломерации наночастиц.

Вячеслав Васильевич Осико – автор более 500 научных публикаций, трёх монографий, 40 авторских свидетельств и 15 патентов.

Вячеслав Васильевич был позитивным человеком, уделявшим особое внимание молодым исследователям, только начинающим свой путь в науке. Им подготовлено более 23 кандидатов наук, 8 докторов наук, среди его учеников академик РАН и член - корреспондент РАН.

Академик РАН В.В. Осико являлся действительным членом и членом Президиума Академии инженерных наук РФ, членом Оптического общества имени Д.С. Рождественского, членом общества материаловедов (США) (Materials Research Society, USA), Американского оптического общества (The Optical Society (OSA)), членом редколлегии журнала «Доклады Российской академии наук», научных и научно-квалификационных советов, членом Нанотехнологического общества России, членом бюро Отделения нанотехнологий и информационных технологий РАН.

Заслуги Вячеслава Васильевича Осико отмечены Орденом Трудового Красного Знамени (1976 г.), Ленинской премией в области науки (1980 г.), премией Совета министров СССР

(1991 г.), премией имени Лодиза Международной организации по росту кристаллов (1992 г.) (Laudise Prizes, The International Organization for Crystal Growth), Орденом Почета за заслуги в научной и педагогической деятельности (2002 г.), премией имени Е.С. Федорова за цикл работ по высокотемпературной кристаллизации (2003 г.), Орденом «Дружбы» (2012 г.), золотой медалью имени А.М. Прохорова РАН (2018 г.).

Кончина Вячеслава Васильевича Осико – огромная и невосполнимая утрата для его коллег и учеников, для науки, которой он посвятил всю свою жизнь.

Выражаем искренние соболезнования семье, близким, друзьям и коллегам Вячеслава Васильевича.

### **Список научных публикаций В.В. Осико:**

1. KOMANDIN, GA; NOZDRIN, VS; FEDOROV, PP; OSIKO, VV.  
ABSORPTION SPECTRA OF SINGLE CRYSTALS AND OPTICAL CERAMICS OF FLUORITE IN THE THZ AND IR RANGES  
DOKLADY PHYSICS 64(7), 271-275 (2019)
2. AGARKOVA, EA; BORIK, MA; KULEBYAKIN, AV; KURITSYNA, IE; LOMONOVA, EE; MILOVICH, FO; MYZINA, VA; OSIKO, VV; TABACHKOVA, NY.  
STRUCTURAL, MECHANICAL, AND TRANSPORT PROPERTIES OF SCANDIA AND YTTRIA PARTIALLY STABILIZED ZIRCONIA CRYSTALS  
INORGANIC MATERIALS 55(7), 748-753 (2019)
3. AGARKOV, DA; BORIK, MA; BUBLIK, VT; CHISLOV, AS; KULEBYAKIN, AV; KURITSYNA, IE; KOLOTYGIN, VA; LOMONOVA, EE; MILOVICH, FO; MYZINA, VA; OSIKO, VV; TABACHKOVA, NY.  
PHASE STABILITY AND TRANSPORT CHARACTERISTICS OF  $(ZrO_2)_{1-x}(Sc_2O_3)_x(CeO_2)_y$  AND  $(ZrO_2)_{1-x-y-z}(Sc_2O_3)_x(CeO_2)_y(Y_2O_3)_z$  SOLID SOLUTION CRYSTALS  
JOURNAL OF ALLOYS AND COMPOUNDS 791, 445-451 (2019)
4. SVEJKAR, R; SULC, J; JELINKOVA, H; DOROSHENKO, ME; KONYUSHKIN, VA; NAKLADOV, AN; OSIKO, VV.  
PASSIVELY Q-SWITCHED ER,LA:SRF2-CAF, LASER AT 2.74  $\mu m$   
HIGH-POWER, HIGH-ENERGY, AND HIGH-INTENSITY LASER TECHNOLOGY IV 11033, - (2019)
5. VESELSKY, K; SULC, J; JELINKOVA, H; DOROSHENKO, ME; KONYUSHKIN, VA; NAKLADOV, AN; OSIKO, VV.  
TUNABLE CRYOGENIC TM:CAF2-SRF2 LASER  
HIGH-POWER, HIGH-ENERGY, AND HIGH-INTENSITY LASER TECHNOLOGY IV 11033, - (2019)
6. FEDOROV, PP; USHAKOV, SN; USLAMINA, MA; CHERNOVA, EV; KUZNETSOV, SV; VORONOV, VV; DUVEL, A; HEITJANS, P; PYNENKOV, AA; NISHCHEV, KN; OSIKO, VV.  
MORPHOLOGICAL STABILITY OF THE SOLID-LIQUID INTERFACE DURING MELT CRYSTALLIZATION OF CA1-XSRXF2 SOLID SOLUTION  
CRYSTALLOGRAPHY REPORTS 63(5), 837-843 (2018)
7. AGARKOV, DA; BORIK, MA; BUBLIK, VT; BREDIKHIN, SI; CHISLOV, AS; KULEBYAKIN, AV; KURITSYNA, IE; LOMONOVA, EE; MILOVICH, FO; MYZINA, VA; OSIKO, VV;

- TABACHKOVA, NY.  
STRUCTURE AND TRANSPORT PROPERTIES OF MELT GROWN SC2O3 AND CEO2  
DOPED ZRO2 CRYSTALS  
SOLID STATE IONICS 322, 24-29 (2018)
8. DOROSHENKO, ME; OSIKO, VV; JELINKOVA, H; JELINEK, M; SULC, J; VYHLIDAL, D;  
KOVALENKO, NO; TERZIN, IS.  
SPECTRAL AND LASING CHARACTERISTICS OF FE:CD1-XMNXTE (X=0.1-0.76) CRYSTALS  
IN THE TEMPERATURE RANGE 77 TO 300 K  
OPTICAL MATERIALS EXPRESS 8(7), 1708-1722 (2018)
9. DOROSHENKO, ME; PAPASHVILI, AG; KONYUSHKIN, VA; NAKLADOV, NA;  
MARTYNOVA, KA; OSIKO, VV.  
SPECTROSCOPIC PROPERTIES OF TM3+ IONS CUBIC (O-H) CENTERS IN LOW  
CONCENTRATED CA-SR-BA FLUORIDES UNDER GROUND STATE SELECTIVE  
EXCITATION  
JOURNAL OF LUMINESCENCE 199, 331-333 (2018)
10. AGARKOV, DA; BORIK, MA; BREDIKHIN, SI; KULEBYAKIN, AV; KURITSYNA, IE;  
LOMONOVA, EE; MILOVICH, FO; MYZINA, VA; OSIKO, VV; AGARKOVA, EA;  
TABACHKOVA, NY.  
STRUCTURE AND TRANSPORT PROPERTIES OF ZIRCONIA-BASED SOLID SOLUTION  
CRYSTALS CO-DOPED WITH SCANDIUM AND CERIUM OXIDES  
RUSSIAN JOURNAL OF ELECTROCHEMISTRY 54(6), 459-463 (2018)
11. RIHA, A; JELINKOVA, H; NEMEC, M; SVEJKAR, R; DOROSHENKO, ME; OSIKO, VV;  
KOVALENKO, NO; GERASIMENKO, AS.  
CR:ZNMNSE DIODE-PUMPED LASER  
2018 INTERNATIONAL CONFERENCE LASER OPTICS (ICLO 2018) , 5-5 (2018)
12. ALIMOV, OK; DOROSHENKO, ME; MARTYNOVA, KA; PAPASHVILI, AG; KONYUSHKIN,  
VA; NAKLADOV, AN; OSIKO, VV.  
SPECTROSCOPIC AND LASER PROPERTIES OF TM3+ IONS OPTICAL CENTERS IN CAF2-  
YF3:TM3+ SOLID SOLUTIONS  
2018 INTERNATIONAL CONFERENCE LASER OPTICS (ICLO 2018) , 69-69 (2018)
13. JELINKOVA, H; DOROSHENKO, ME; OSIKO, VV; JELINEK, M; VYHLIDAL, D; SULC, J;  
NEMEC, M; KOVALENKO, NO; GERASIMENKO, AS.  
FE:ZNO.MNO.4SE LASER GENERATION AT 5.0-5.8 MU M IN THE TEMPERATURE  
RANGE OF 78-300 K  
SOLID STATE LASERS XXVII: TECHNOLOGY AND DEVICES 10511, - (2018)
14. SVEJKAR, R; PAPASHVILI, AG; SULC, J; NEMEC, M; JELINKOVA, H; DOROSHENKO, ME;  
BATYGOV, SH; OSIKO, VV.  
2.4 MU M DIODE-PUMPED DY2+:CAF2 LASER  
LASER PHYSICS LETTERS 15(1), - (2018)
15. DOROSHENKO, ME; JELINKOVA, H; OSIKO, VV; JELINEK, M; VYHLIDAL, D; SULC, J;  
NEMEC, M; KOVALENKO, NO; GERASIMENKO, AS.  
FE:ZNMNSE LASER ACTIVE MATERIAL AT 78-300 K: SPECTROSCOPIC PROPERTIES AND  
LASER GENERATION AT 4.2-5.0 MU M  
JOURNAL OF LUMINESCENCE 192, 1300-1307 (2017)
16. BORIK, MA; BREDIKHIN, SI; BUBLIK, VT; KULEBYAKIN, AV; KURITSYNA, IE;  
LOMONOVA, EE; MILOVICH, PO; MYZINA, VA; OSIKO, VV; RYABOCHKINA, PA;  
TABACHKOVA, NY.  
STRUCTURE AND CONDUCTIVITY OF YTTRIA AND SCANDIA-DOPED ZIRCONIA

- CRYSTALS GROWN BY SKULL MELTING  
JOURNAL OF THE AMERICAN CERAMIC SOCIETY 100(12), 5536-5547 (2017)
17. BORIK, MA; BREDIKHIN, SI; BUBLIK, VT; KULEBYAKIN, AV; KURITSYNA, IE;  
LOMONOVA, EE; MILOVICH, FO; MYZINA, VA; OSIKO, VV; RYABOCHKINA, PA;  
TABACHKOVA, NY; VOLKOVA, TV.  
THE IMPACT OF STRUCTURAL CHANGES IN ZRO<sub>2</sub>-Y<sub>2</sub>O<sub>3</sub> SOLID SOLUTION CRYSTALS  
GROWN BY DIRECTIONAL CRYSTALLIZATION OF THE MELT ON THEIR TRANSPORT  
CHARACTERISTICS  
MATERIALS LETTERS 205, 186-189 (2017)
18. BORIK, MA; BUBLIK, VT; EREMINA, RM; KULEBYAKIN, AV; LOMONOVA, EE;  
MILOVICH, FO; MYZINA, VA; OSIKO, VV; TABACHKOVA, NY; FAZLIZHANOV, II;  
SHUSTOV, VA; YATSYK, IV.  
EFFECT OF THE VALENCE STATE OF CE IONS ON THE PHASE STABILITY AND  
MECHANICAL PROPERTIES OF THE CRYSTALS OF ZRO<sub>2</sub>-BASED SOLID SOLUTIONS  
PHYSICS OF THE SOLID STATE 59(10), 1934-1939 (2017)
19. POROKHOVNICHENKO, DL; DYAKONOV, EA; VOLOSHINOV, VB; KUZNETSOV, SV;  
FEDOROV, PP; KUZNETSOV, MS; LISITSKIY, IS; OSIKO, VV.  
ACOUSTO-OPTIC INTERACTION IN AN INI SINGLE CRYSTAL  
DOKLADY PHYSICS 62(9), 407-410 (2017)
20. NEMEC, M; SULC, J; JELINEK, M; KUBECEK, V; JELINKOVA, H; DOROSHENKO, ME;  
ALIMOV, OK; KONYUSHKIN, VA; NAKLADOV, AN; OSIKO, VV.  
THULIUM FIBER PUMPED TUNABLE HO:CAF<sub>2</sub> LASER  
OPTICS LETTERS 42(9), 1852-1855 (2017)
21. DOROSHENKO, ME; PAPASHVILI, AG; DUNAEVA, EE; IVLEVA, LI; OSIKO, VV.  
THULIUM OPTICAL CENTERS IN TM,NB:SRMOO<sub>4</sub> CRYSTAL  
JOURNAL OF LUMINESCENCE 184, 44-47 (2017)
22. BORIK, MA; BREDIKHIN, SI; BUBLIK, VT; KULEBYAKIN, AV; KURITSYNA, IE;  
LOMONOVA, EE; MILOVICH, FO; MYZINA, VA; OSIKO, VV; SERYAKOV, SV;  
TABACHKOVA, NY.  
CHANGE IN THE MECHANISM OF CONDUCTIVITY IN ZRO<sub>2</sub>-BASED CRYSTALS  
DEPENDING ON THE CONTENT OF STABILIZING Y<sub>2</sub>O<sub>3</sub> ADDITIVE  
TECHNICAL PHYSICS LETTERS 43(3), 289-292 (2017)
23. DOROSHENKO, ME; OSIKO, VV; JELINKOVA, H; JELINEK, M; KOVALENKO, NO; TERZIN,  
IS.  
CD<sub>1</sub>-XMNXTE (X=0.1-0.78) CRYSTALS DOPED WITH FE<sup>2+</sup> IONS: SPECTROSCOPIC  
PROPERTIES AND LASER OSCILLATIONS AT 4.95-5.27 MU M AT LOW TEMPERATURE  
LASER PHYSICS LETTERS 14(2), - (2017)
24. DOROSHENKO, ME; PAPASHVILI, AG; MARTYNOVA, KA; KONYUSHKIN, VA;  
NAKLADOV, AN; OSIKO, VV.  
SPECTROSCOPIC PROPERTIES OF LONG-LIFETIME TM<sup>3+</sup> OPTICAL CENTERS IN CA-SR-  
BA FLUORIDES IN THE FORM OF SINGLE CRYSTALS AND CERAMICS AT THE (1)G(4)-H-  
3(5) MAGNETIC DIPOLE ALLOWED TRANSITION  
LASER PHYSICS LETTERS 14(2), - (2017)
25. BELOV, S V; DANILEYKO, Y K; SHULUTKO, A M; SEMIKOV, V I; GRYAZNOV, S E;  
OSMANOV, E G; GORBACHEVA, A V; PATALOVA, A P; OSIKO, V V; SALYUK, V A.  
USE OF HIGH-TECH ELECTROSURGICAL TOOLS TO IMPROVE THE EFFICIENCY AND  
SAFETY OF OPERATIONS ON THE THYROID GLAND  
MEDICAL EQUIPMENT (1), 8 (2017)

26. BOLSCHIKOV, F.A.; KRUGLOVA, M.N.; KUZNETZOV, S.V.; LYAPIN, A.A.; MALOV, A.V.; OSIKO, V.V.; RYABOCHKINA, P.A.; USHAKOV, S.N.; FEDOROV, P.P.; CHUPRUNOV, E.V.; GARIBIN, E.V..  
STRUCTURE AND SPECTRAL-LUMINESCENT PROPERTIES OF NANOSTRUCTURED CAP2-TMF3 CERAMICS A POTENTIAL ACTIVE MEDIUM FOR 2 (M LASERS CONFERENCE: CONFERENCE ON LASERS AND ELECTRO OPTICS - EUROPEAN QUANTUM ELECTRONICS CONFERENCE (CLEO/EUROPE-EQEC) LOCATION: MUNICH, GERMANY DATE: 22-26 MAY, 2011 , (2017)
27. DOROSHENKO, ME; ALIMOV, OK; PAPASHVILI, AG; MARTYNOVA, KA; KONYUSHKIN, VA; NAKLADOV, AN; OSIKO, VV.  
FORMATION OF NEW TM3+ TETRAGONAL SYMMETRY OPTICAL CENTERS IN CAF2 HOT-FORMED LASER CERAMICS  
OPTICS AND SPECTROSCOPY 122(1), 128-132 (2017)
28. JELINKOVA, H; DOROSHENKO, ME; JELINEK, M; SULC, J; NEMEC, M; OSIKO, VV; KOVALENKO, NO; TERZIN, IS.  
FE:CDMNT ACTIVE MATERIAL SPECTROSCOPIC PROPERTIES AND LASER GENERATION AROUND 5 MU M  
SOLID STATE LASERS XXVI: TECHNOLOGY AND DEVICES 10082, - (2017)
29. SULC, J; VESELSKY, K; NEMEC, M; JELINKOVA, H; DOROSHENKO, ME; KONYUSHKIN, VA; NAKLADOV, AN; OSIKO, VV.  
TEMPERATURE INFLUENCE ON DIODE-PUMPED TM:SRF2-CAF2 LASER PROPERTIES  
SOLID STATE LASERS XXVI: TECHNOLOGY AND DEVICES 10082, - (2017)
30. BORIK, MA; BREDIKHIN, SI; BUBLIK, VT; KULEBYAKIN, AV; KURITSYNA, IE; LOMONOVA, EE; MILOVICH, FO; MYZINA, VA; OSIKO, VV; RYABOCHKINA, PA; SERYAKOV, SV; TABACHKOVA, NY.  
PHASE COMPOSITION, STRUCTURE AND PROPERTIES OF (ZRO2)(1-X-Y)(SC2O3)(X)(Y2O3)(Y), SOLID SOLUTION CRYSTALS (X=0.08-0.11; Y=0.01-0.02) GROWN BY DIRECTIONAL CRYSTALLIZATION OF THE MELT  
JOURNAL OF CRYSTAL GROWTH 457, 122-127 (2017)
31. JELINKOVA, H; DOROSHENKO, ME; JELINEK, M; SULC, J; VYHLIDAL, D; OSIKO, VV; KOVALENKO, NO; GERASIMENKO, AS.  
FE2+:CD1-XMNXTE (X=0.1-0.78) LASER AT 4.95-5.8 MU M IN THE TEMPERATURE RANGE 77-240 K 2017  
CONFERENCE ON LASERS AND ELECTRO-OPTICS EUROPE & EUROPEAN QUANTUM ELECTRONICS CONFERENCE (CLEO/EUROPE-EQEC), - (2017)
32. SULC, J; NEMEC, M; FIBRICH, M; JELINKOVA, H; DOROSHENKO, ME; KONYUSHKIN, VA; NAKLADOV, AN; OSIKO, VV.  
CRYOGENICALLY COOLED TUNABLE TM,Y:CAF2 LASER  
2017 CONFERENCE ON LASERS AND ELECTRO-OPTICS EUROPE & EUROPEAN QUANTUM ELECTRONICS CONFERENCE (CLEO/EUROPE-EQEC) , - (2017)
33. SVEJKAR, R; SULC, J; NEMEC, M; JELINKOVA, H; DOROSHENKO, ME; BATYGOV, SH; OSIKO, VV.  
TEMPERATURE INFLUENCE ON DIODE-PUMPED DY2+:CAF2 LASER  
2017 CONFERENCE ON LASERS AND ELECTRO-OPTICS EUROPE & EUROPEAN QUANTUM ELECTRONICS CONFERENCE (CLEO/EUROPE-EQEC) , - (2017)
34. SVEJKAR, R; SULC, J; NEMEC, M; JELINKOVA, H; DOROSHENKO, ME; PAPASHVILI, AG; BATYGOV, SH; OSIKO, VV.  
CRYOGENIC-COOLED TM: SBN TUNABLE LASER

- PHOTONICS, DEVICES, AND SYSTEMS VII 10603, - (2017)
35. DOROSHENKO, ME; PAPASHVILI, AG; DUNAEVA, EE; IVLEVA, LI; OSIKO, VV;  
JELINKOVA, H; SULC, J; NEMEC, M.  
SPECTROSCOPIC AND LASER PROPERTIES OF SRMOO<sub>4</sub>:TM<sup>3+</sup> CRYSTAL UNDER 1700-  
NM LASER DIODE PUMPING  
OPTICAL MATERIALS 60, 119-122 (2016)
36. DOROSHENKO, ME; OSIKO, VV; JELINKOVA, H; JELINEK, M; SULC, J; NEMEC, M;  
VYHLIDAL, D; CECH, M; KOVALENKO, NO; GERASIMENKO, AS.  
SPECTROSCOPIC AND LASER PROPERTIES OF BULK IRON DOPED ZINC MAGNESIUM  
SELENIDE FE:ZNMGSE GENERATING AT 4.5-5.1 μm  
OPTICS EXPRESS 24(17), 19824-19834 (2016)
37. DOROSHENKO, ME; OSIKO, VV.  
COMPACT SOLID-STATE MID-IR LASERS. DEVOTED TO THE 100TH ANNIVERSARY OF  
ACADEMICIAN A M PROKHOROV  
LASER PHYSICS 26(8), - (2016)
38. SIDOROV, AA; KULCHENKOV, EA; POPOV, PA; PROSTAKOVA, KN; FEDOROV, PP;  
KUZNETSOV, SV; CHUVILINA, EL; GASANOV, AA; OSIKO, VV.  
THERMAL EXPANSION OF INI CRYSTAL  
DOKLADY PHYSICS 61(8), 374-376 (2016)
39. JELINKOVA, H; DOROSHENKO, ME; OSIKO, VV; JELINEK, M; SULC, J; NEMEC, M;  
VYHLIDAL, D; BADIKOV, VV; BADIKOV, DV.  
DYSPROSIUM THIOGALLATE LASER: SOURCE OF MID-INFRARED RADIATION AT 2.4,  
4.3, AND 5.4 μm  
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING 122(8), - (2016)
40. BORIK, MA; BREDIKHIN, SI; BUBLIK, VT; KULEBYAKIN, AV; KURITSYNA, IE;  
LOMONOVA, EE; MILOVICH, FO; MYZINA, VA; OSIKO, VV; SERYAKOV, SV;  
TABACHKOVA, NY.  
STRUCTURE AND PROPERTIES OF THE CRYSTALS OF SOLID ELECTROLYTES (ZRO<sub>2</sub>)(1-X  
- Y)(SC<sub>2</sub>O<sub>3</sub>)(X)(Y<sub>2</sub>O<sub>3</sub>)(Y) (X=0.035-0.11, Y=0-0.02) PREPARED BY SELECTIVE MELT  
CRYSTALLIZATION  
RUSSIAN JOURNAL OF ELECTROCHEMISTRY 52(7), 655-661 (2016)
41. FEDOROV, PP; KUZNETSOV, SV; CHUVILINA, EL; GASANOV, AA; PLOTNICHENKO, VG;  
POPOV, PA; MATOVNIKOV, AV; OSIKO, VV.  
SINGLE-CRYSTALLINE INI-MATERIAL FOR INFRARED OPTICS  
DOKLADY PHYSICS 61(6), 261-265 (2016)
42. BORIK, MA; BREDIKHIN, SI; KULEBYAKIN, AV; KURITSYNA, IE; LOMONOVA, EE;  
MILOVICH, FO; MYZINA, VA; OSIKO, VV; PANOV, VA; RYABOCHKINA, PA; SERYAKOV,  
SV; TABACHKOVA, NY.  
MELT GROWTH, STRUCTURE AND PROPERTIES OF (ZRO<sub>2</sub>)(1-X)(SC<sub>2</sub>O<sub>3</sub>)(X) SOLID  
SOLUTION CRYSTALS (X=0.035-0.11)  
JOURNAL OF CRYSTAL GROWTH 443, 54-61 (2016)
43. ALIMOV, OK; DOROSHENKO, ME; KONYUSHKIN, VA; NAKLADOV, AN; PAPASHVILI,  
AG; OSIKO, VV.  
SPECTROSCOPIC PROPERTIES OF TM<sup>3+</sup> OPTICAL CENTERS AT THE F-3(4)-H-3(6) 2-μm  
LASER TRANSITION IN BAF<sub>2</sub> CRYSTAL  
JOURNAL OF LUMINESCENCE 172, 219-223 (2016)
44. DUNAEVA, EE; ZVEREV, PG; DOROSHENKO, ME; NEKHOROSHIKH, AV; IVLEVA, LI;  
OSIKO, VV.

- GROWTH AND SPECTRAL-LUMINESCENT STUDY OF SRMOO4 CRYSTALS DOPED WITH TM3+ IONS  
DOKLADY PHYSICS 61(3), 119-123 (2016)
45. DOROSHENKO, ME; PAPASHVILI, AG; KONYUSHKIN, VA; NAKLADOV, AN; OSIKO, VV.  
SPECTROSCOPIC PROPERTIES OF TM3+ LONG-LIFETIME OPTICAL CENTERS AT THE (1)G(4)-H-3(5) TRANSITION IN CAF2 CRYSTAL  
LASER PHYSICS 26(3), - (2016)
46. BATYGOV, SK; FEDOROV, PP; KUZNETSOV, SV; OSIKO, VV.  
LUMINESCENCE OF BA1-X LA (X) F2+X : CE3+ CRYSTALS  
DOKLADY PHYSICS 61(2), 50-54 (2016)
47. JELINKOVA, H; DOROSHENKO, ME; SULC, J; NEMEC, M; JELINEK, M; OSIKO, VV;  
BADIKOV, VV; BADIKOV, DV.  
LASER-DIODE PUMPED DYSPROSIUM-DOPED LEAD THIOGALLATE LASER OUTPUT  
WAVELENGTH TEMPORAL EVOLUTION AND TUNING POSSIBILITIES AT 4.3-4.7 UM  
SOLID STATE LASERS XXV: TECHNOLOGY AND DEVICES 9726, - (2016)
48. SVEJKAR, R; SULC, J; NEMEC, M; JELINKOVA, H; DOROSHENKO, ME; KONYUSHKIN,  
VA; NAKLADOV, AN; OSIKO, VV.  
EFFECT OF CRYOGENIC TEMPERATURE ON SPECTROSCOPIC AND LASER PROPERTIES  
OF ER,LA:SRF2-CAF2 CRYSTAL  
SOLID STATE LASERS XXV: TECHNOLOGY AND DEVICES 9726, - (2016)
49. JELILKOVA, H; DOROSHENKO, ME; OSIKO, VV; NEMEC, M; SULC, J; JELINEK, M;  
VYHLIDAL, D; KUBECEK, V; CECH, M; KOVALENKO, NO; GERASIMENKO, AS.  
FE:ZNMNSE LASER ACTIVE MATERIAL PROPERTIES AT ROOM AND CRYOGENIC  
TEMPERATURE  
LASER SOURCES AND APPLICATIONS III 9893, - (2016)
50. ALIMOV, OK; DOROSHENKO, ME; KONYUSHKIN, VA; PAPASHVILI, AG; OSIKO, VV.  
SELECTIVE LASER SPECTROSCOPY OF SRF2 CRYSTAL DOPED WITH PR3+ IONS  
QUANTUM ELECTRONICS 46(1), 68-72 (2016)
51. DOROSHENKO, ME; PAPASHVILI, AG; ALIMOV, OK; MARTYNOVA, KA; KONYUSHKIN,  
VA; NAKLADOV, AN; OSIKO, VV; JELINKOVA, H; SULC, J; NEMEC, M.  
SPECIFIC SPECTROSCOPIC AND LASER PROPERTIES OF TM3+ IONS IN HOT-FORMED  
CAF2 LASER CERAMICS  
LASER PHYSICS LETTERS 13(1), - (2016)
52. FEDOROV, PP; KUZNETSOV, SV; OSIKO, VV.  
ELABORATION OF NANOFLUORIDES AND CERAMICS FOR OPTICAL AND LASER  
APPLICATIONS  
PHOTONIC AND ELECTRONIC PROPERTIES OF FLUORIDE MATERIALS 1, 7-31 (2016)
53. DOROSHENKO, ME; PAPASHVILI, AG; ALIMOV, OK; KONYUSHKIN, VA; NAKLADOV,  
AN; OSIKO, VV.  
SPECTROSCOPIC AND LASER PROPERTIES OF TM3+ OPTICAL CENTERS IN BAF2 SINGLE  
CRYSTAL AND CERAMICS.  
2016 INTERNATIONAL CONFERENCE LASER OPTICS (LO) , - (2016)
54. DUNAEVA, EE; IVIEVA, LI; DOROSHENKO, ME; ZVEREV, PG; NEKHOROSHIKH, AV;  
OSIKO, VV.  
SYNTHESIS, CHARACTERIZATION, SPECTROSCOPY, AND LASER OPERATION OF  
SRMOO4 CRYSTALS CO-DOPED WITH TM3+ AND HO3+  
JOURNAL OF CRYSTAL GROWTH 432, 1-5 (2015)
55. DOROSHENKO, ME; ALIMOV, OK; PAPASHVILI, AG; MARTYNOVA, KA; KONYUSHKIN,



- VA; NAKLADOV, AN; OSIKO, VV.  
SPECTROSCOPIC AND LASER PROPERTIES OF TM<sup>3+</sup> OPTICAL CENTERS IN CAF<sub>2</sub> CRYSTAL UNDER 795 NM DIODE LASER EXCITATION  
LASER PHYSICS LETTERS 12(12), - (2015)
56. ALIMOV, OK; DOROSHENKO, ME; KONYUSHKIN, VA; MARTYNOVA, KA; NAKLADOV, AN; PAPASHVILI, AG; OSIKO, VV.  
INFLUENCE OF TM<sup>3+</sup> OPTICAL CENTERS ON SPECTROSCOPIC PROPERTIES AT THE F-3(4)-H-3(6) 2-MU M LASER TRANSITION  
JOURNAL OF LUMINESCENCE 167, 16-20 (2015)
57. FEDOROV, PP; IVANOV, VK; OSIKO, VV.  
BASIC FEATURES AND CRYSTAL-GROWTH SCENARIOS BASED ON THE MECHANISM OF ORIENTED ATTACHMENT GROWTH OF NANOPARTICLES  
DOKLADY PHYSICS 60(11), 483-485 (2015)
58. DOROSHENKO, ME; OSIKO, VV; JELINKOVA, H; JELINEK, M; NEMEC, M; SULC, J; KOVALENKO, NO; GERASIMENKO, AS; PUZIKOV, VM.  
SPECTROSCOPIC AND LASER PROPERTIES OF CR<sup>2+</sup> IONS IN ZN<sub>1</sub>-XMGXSE SOLID SOLUTIONS  
OPTICAL MATERIALS 47, 185-189 (2015)
59. BORIK, MA; BUBLIK, VT; KULEBYAKIN, AV; LOMONOVA, EE; MILOVICH, FO; MYZINA, VA; OSIKO, VV; SERYAKOV, SV; TABACHKOVA, NY.  
CHANGE IN THE PHASE COMPOSITION, STRUCTURE AND MECHANICAL PROPERTIES OF DIRECTED MELT CRYSTALLISED PARTIALLY STABILISED ZIRCONIA CRYSTALS DEPENDING ON THE CONCENTRATION OF Y<sub>2</sub>O<sub>3</sub>  
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY 35(6), 1889-1894 (2015)
60. DUNAEVA, EE; IVLEVA, LI; DOROSHENKO, ME; ZVEREV, PG; OSIKO, VV.  
SRMOO4:PR<sup>3+</sup> SINGLE CRYSTALS: GROWTH AND PROPERTIES  
DOKLADY PHYSICS 60(3), 122-126 (2015)
61. BORIK, MA; VOLKOVA, TV; KULEBYAKIN, AV; LOMONOVA, EE; MILOVICH, FO; MYZINA, VA; OSIKO, VV; RYABOCHKINA, PA; TABACHKOVA, NY; USLAMINA, MA; USHAKOV, SN; CHABUSHKIN, AN.  
NANOSTRUCTURED CRYSTALS OF PARTIALLY YTTRIA-STABILIZED AND ND<sup>3+</sup> DOPED ZIRCONIA: STRUCTURE AND LUMINESCENT PROPERTIES  
JOURNAL OF ALLOYS AND COMPOUNDS 621, 295-300 (2015)
62. BELOV, SV; DANILEYKO, YK; YEZHOV, VV; NEFEDOV, SM; OSIKO, VV; SALYUK, VA; SIDOROV, VA.  
SHOCKWAVE IMPACT ON PATHOLOGICAL TISSUES: A NEW METHOD OF LASER SURGICAL TREATMENT OF DYSTROPHIC DISEASES OF THE VAGINA AND VULVA  
DOKLADY PHYSICS 60(2), 57-61 (2015)
63. GRISHUTKINA, TE; DOROSHENKO, ME; KARASIK, AY; KONYUSHKIN, VA; KONYUSHKIN, DV; NAKLADOV, AN; OSIKO, VV; TSVETKOV, VB.  
PLANAR FLUORIDE WAVEGUIDES FOR AMPLIFIERS AND LASERS  
QUANTUM ELECTRONICS 45(8), 717-719 (2015)
64. SULC, J; SVEJKAR, R; NEMEC, M; JELINKOVA, H; DOROSHENKO, ME; FEDOROV, PP; OSIKO, VV.  
TEMPERATURE INFLUENCE ON DIODE PUMPED ER:CAF<sub>2</sub> LASER  
SOLID STATE LASERS XXIV: TECHNOLOGY AND DEVICES 9342, - (2015)
65. DOROSHENKO, M. E.; OSIKO, V. V.; ET AL..  
SPECTROSCOPIC AND LASER PROPERTIES OF FE<sup>2+</sup> IONS IN SOLID SOLUTIONS BASED

- ON ZNSE CRYSTAL  
PUBLISHER: ADVANCED SOLID STATE LASERS, OSA TECHNICAL DIGEST (ONLINE)  
(OPTICAL SOCIETY OF AMERICA) 15, (2015)
66. JELINKOVA, H.; SULC, J.; JELINEK, M.; NEMEC, M.; VYHLIDAL, D.; DOROSHENKO, M. E.; OSIKO, V.; KOVALENKO, N.; GERASIMENKO, A..  
IRONDOPED CDXMN1-XTE ACTIVE MATERIAL FOR MID-IR LASERS  
PUBLISHER: OSA TECHNICAL DIGEST , (2015)
67. ROZHNOVA, YA; LUGININA, AA; VORONOV, VV; ERMAKOV, RP; KUZNETSOV, SV; RYABOVA, AV; POMINOVA, DV; ARBENINA, VV; OSIKO, VV; FEDOROV, PP.  
WHITE LIGHT LUMINOPHORES BASED ON YB<sup>3+</sup>/ER<sup>3+</sup>/TM<sup>3+</sup>-COACTIVATED STRONTIUM FLUORIDE POWDERS  
MATERIALS CHEMISTRY AND PHYSICS 148(1-2), 201-207 (2014)
68. FEDOROV, PP; OSIKO, VV; KUZNETSOV, SV; UVAROV, OV; MAYAKOVA, MN; YASIRKINA, DS; OVSYANNIKOVA, AA; VORONOV, VV; IVANOV, VK.  
NUCLEATION AND GROWTH OF FLUORIDE CRYSTALS BY AGGLOMERATION OF THE NANOPARTICLES  
JOURNAL OF CRYSTAL GROWTH 401, 63-66 (2014)
69. POPOV, PA; FEDOROV, PP; OSIKO, VV.  
THERMAL CONDUCTIVITY OF SINGLE CRYSTALS OF THE CA<sub>1</sub>-XYXF<sub>2</sub>+X SOLID SOLUTION  
DOKLADY PHYSICS 59(5), 199-202 (2014)
70. KUZNETSOV, SV; OVSYANNIKOVA, AA; TUPITSYNA, EA; YASYRKINA, DS; VORONOV, VV; BATYREV, NI; ISKHAKOVA, LD; OSIKO, VV; FEDOROV, PP.  
PHASE FORMATION IN LAF<sub>3</sub>-NAGDF<sub>4</sub>, NAGDF<sub>4</sub>-NALUF<sub>4</sub>, AND NALUF<sub>4</sub>-NAYF<sub>4</sub> SYSTEMS: SYNTHESIS OF POWDERS BY CO-PRECIPIATION FROM AQUEOUS SOLUTIONS  
JOURNAL OF FLUORINE CHEMISTRY 161, 95-101 (2014)
71. BORIK, MA; BUBLIK, VT; KULEBYAKIN, AV; LOMONOVA, EE; MILOVICH, FO; MYZINA, VA; OSIKO, VV; TABACHKOVA, NY.  
PHASE COMPOSITION, STRUCTURE AND MECHANICAL PROPERTIES OF PSZ (PARTIALLY STABILIZED ZIRCONIA) CRYSTALS AS A FUNCTION OF STABILIZING IMPURITY CONTENT  
JOURNAL OF ALLOYS AND COMPOUNDS 586, S231-S235 (2014)
72. YASYRKINA, DS; KUZNETSOV, SV; FEDOROV, PP; VORONOV, VV; ERMAKOV, RP; RYABOVA, AV; POMINOVA, DV; BARANCHIKOV, AE; IVANOV, VK; OSIKO, VV.  
EFFECT OF THE PH ON THE FORMATION OF NAYF<sub>4</sub>:YB:ER NANOPOWDERS BY CO-CRYSTALLIZATION IN PRESENCE OF POLYETHYLENEIMINE  
JOURNAL OF FLUORINE CHEMISTRY 158, 60-64 (2014)
73. BUNKIN, FV; DIANOV, EM; ZVEREV, GM; KONOV, VI; KROKHIN, ON; OSIKO, VV; PASHININ, PP; SHCHERBAKOV, IA.  
TO THE MEMORY OF ALEKSANDR ALEKSEEVICH MANENKOV OBITUARY  
QUANTUM ELECTRONICS 44(6), 612-612 (2014)
74. SAMSONOVA, EV; POPOV, AV; VANETSEV, AS; KEEVEND, K; ORLOVSKAYA, EO; KIISK, V; LANGE, S; JOOST, U; KALDVEE, K; MAEORG, U; GLUSHKOV, NA; RYABOVA, AV; SILDOS, I; OSIKO, VV; STEINER, R; LOSCHENOV, VB; ORLOVSKII, YV.  
AN ENERGY TRANSFER KINETIC PROBE FOR OH-QUENCHERS IN THE ND<sup>3+</sup>:YPO<sub>4</sub> NANOCRYSTALS SUITABLE FOR IMAGING IN THE BIOLOGICAL TISSUE TRANSPARENCY WINDOW

- PHYSICAL CHEMISTRY CHEMICAL PHYSICS 16(48), 26806-26815 (2014)
75. DOROSHENKO, ME; KONYUSHKIN, VA; NAKLADOV, NA; FEDOROV, PP; OSIKO, VV;  
MARTYNOVA, KA; JELINKOVA, H; SULC, J.  
SPECTROSCOPIC AND LASER PROPERTIES OF TM<sup>3+</sup> IONS IN FLUORIDE CRYSTALS AND  
CERAMICS.  
2014 INTERNATIONAL CONFERENCE LASER OPTICS , - (2014)
76. IVANOV, VK; FEDOROV, PP; BARANCHIKOV, AY; OSIKO, VV.  
ORIENTED ATTACHMENT OF PARTICLES: 100 YEARS OF INVESTIGATIONS OF NON-  
CLASSICAL CRYSTAL GROWTH  
RUSSIAN CHEMICAL REVIEWS 83(12), 1204-1222 (2014)
77. SULC, J; NEMEC, M; JELINKOVA, H; DOROSHENKO, ME; FEDOROV, PP; OSIKO, VV.  
DIODE PUMPED TUNABLE LASERS BASED ON TM:CAF<sub>2</sub> AND TM:HO:CAF<sub>2</sub> CERAMICS  
SOLID STATE LASERS XXIII: TECHNOLOGY AND DEVICES 8959, - (2014)
78. SULC, J.; SVEJKAR, R.; NEMEC, M.; JELINKOVA, H.; DOROSHENKO, M. E.;  
KONYUSHKIN, V. A.; NAKLADOV, A. N.; OSIKO, V. V.  
ER:SRF<sub>2</sub>; CRYSTAL FOR DIODE-PUMPED 2.7 μm LASER  
ADVANCED SOLID STATE LASERS , (2014)
79. MAYAKOVA, MN; KUZNETSOV, SV; FEDOROV, PP; VORONOV, VV; ERMAKOV, RP;  
BOLDYREV, KN; KARBAN', OV; UVAROV, OV; BARANCHIKOV, AE; OSIKO, VV.  
SYNTHESIS AND CHARACTERIZATION OF FLUORIDE XEROGELS  
INORGANIC MATERIALS 49(11), 1152-1156 (2013)
80. BELOV, SV; DANILEIKO, YK; EZHOV, VV; LEBEDEVA, TP; NEFEDOV, SM; OSIKO, VV;  
SALYUK, VA.  
THERMAL EXPLOSION OF ABSORBING INCLUSIONS AS A MECHANISM OF  
DESTRUCTIVE EFFECTS ON BIOLOGICAL TISSUES  
DOKLADY PHYSICS 58(10), 417-420 (2013)
81. SULC, J; NEMEC, M; SVEJKAR, R; JELINKOVA, H; DOROSHENKO, ME; FEDOROV, PP;  
OSIKO, VV.  
DIODE-PUMPED ER:CAF<sub>2</sub> CERAMIC 2.7 μm TUNABLE LASER  
OPTICS LETTERS 38(17), 3406-3409 (2013)
82. JELINKOVA, H; DOROSHENKO, ME; JELINEK, M; SULC, J; OSIKO, VV; BADIKOV, VV;  
BADIKOV, DV.  
DYSPROSIUM-DOPED PBGA<sub>2</sub>S<sub>4</sub> LASER GENERATING AT 4.3 μm DIRECTLY PUMPED  
BY 1.7 μm LASER DIODE  
OPTICS LETTERS 38(16), 3040-3043 (2013)
83. BORIK, MA; BUBLIK, VT; KULEBYAKIN, AV; LOMONOVA, EE; MILOVICH, FO; MYZINA,  
VA; OSIKO, VV; SERYAKOV, SV; TABACHKOVA, NY.  
STRUCTURE AND MECHANICAL PROPERTIES OF CRYSTALS OF PARTIALLY STABILIZED  
ZIRCONIA AFTER THERMAL TREATMENT  
PHYSICS OF THE SOLID STATE 55(8), 1690-1696 (2013)
84. IVLEVA, LI; ZAKUTAILOV, KV; DUNAIEVA, EE; OSIKO, VV.  
STUDY OF MELTING AND CRYSTALLIZATION OF SODIUM VANADIUM OXIDE BRONZE  
DOKLADY PHYSICAL CHEMISTRY 451, 176-179 (2013)
85. LYAPIN, AA; FEDOROV, PP; GARIBIN, EA; MALOV, AV; OSIKO, VV; RYABOCHKINA, PA;  
USHAKOV, SN.  
SPECTROSCOPIC, LUMINESCENT AND LASER PROPERTIES OF NANOSTRUCTURED  
CAF<sub>2</sub>:TM MATERIALS  
OPTICAL MATERIALS 35(10), 1859-1864 (2013)

86. BELOV, SV; BORIK, MA; VISHNYAKOVA, MA; DANILEIKO, YK; KULEBYAKIN, AV; LOMONOVA, EE; MILOVICH, FO; MYZINA, VA; OSIKO, VV; SALYUK, VA; TABACHKOVA, NY.  
STUDY OF THE STRUCTURAL AND PHYSICOCHEMICAL PROPERTIES OF NANOSTRUCTURED ZIRCONIA CRYSTALS FOR FABRICATING AN INNOVATIVE ELECTROSURGICAL TOOL  
DOKLADY PHYSICS 58(5), 161-164 (2013)
87. POPOV, PA; LUGININA, AA; FEDOROV, PP; OSIKO, VV.  
THERMAL CONDUCTIVITY OF SINGLE CRYSTALS OF  $M_{1-x}M'_xF_2$  ( $M = CA, SR; M' = MN, CO$ ) ISOVALENT SOLID SOLUTIONS  
INORGANIC MATERIALS 49(4), 427-429 (2013)
88. KONYUSHKIN, VA; NAKLADOV, AN; KONYUSHKIN, DV; DOROSHENKO, ME; OSIKO, VV; KARASIK, AY.  
CERAMIC PLANAR WAVEGUIDE STRUCTURES FOR AMPLIFIERS AND LASERS  
QUANTUM ELECTRONICS 43(1), 60-62 (2013)
89. AKCHURIN, MS; BASIEV, TT; DEMIDENKO, AA; DOROSHENKO, ME; FEDOROV, PP; GARIBIN, EA; GUSEV, PE; KUZNETSOV, SV; KRUTOV, MA; MIRONOV, IA; OSIKO, VV; POPOV, PA.  
CAF<sub>2</sub>:YB LASER CERAMICS  
OPTICAL MATERIALS 35(3), 444-450 (2013)
90. DOROSHENKO, M. E.; KONYUSHKIN, V.; KARASIK, A.; FEDOROV, P.; OSIKO, V.; JELINKOVA, H.; SULC, J.  
FLUORIDE CERAMICS FOR MID IR LASING (2-3MM) AND PLANAR WAVEGUIDES  
CONFERENCE: ADVANCED SOLID-STATE LASERS CONGRESS SPONSOR(S): OPTICAL SOCIETY OF AMERICA 6, (2013)
91. BELOV, SV; BORIK, MA; DANILEIKO, JK; SHULUTKO, AM; LOMONOVA, EE; OSIKO, VV; ET AL..  
NEW BIPOLAR ELECTROSURGICAL TOOLS BASED ON ZIRCONIUM DIOXIDE  
DOROSHENKO, ME; DEMIDENKO, AA; FEDOROV, PP; GARIBIN, EA; GUSEV, PE; JELINKOVA, H; KONYSHKIN, VA; KRUTOV, MA; KUZNETSOV, SV; OSIKO, VV; POPOV, PA; SULC, J.  
PROGRESS IN FLUORIDE LASER CERAMICS  
PHYSICA STATUS SOLIDI C: CURRENT TOPICS IN SOLID STATE PHYSICS, VOL 10, NO 6 10(6), 952-957 (2013)  
BIOMED ENG 47(2), 78 (2013)
92. DOROSHENKO, ME; DEMIDENKO, AA; FEDOROV, PP; GARIBIN, EA; GUSEV, PE; JELINKOVA, H; KONYSHKIN, VA; KRUTOV, MA; KUZNETSOV, SV; OSIKO, VV; POPOV, PA; SULC, J.  
PROGRESS IN FLUORIDE LASER CERAMICS  
PHYSICA STATUS SOLIDI C: CURRENT TOPICS IN SOLID STATE PHYSICS, VOL 10, NO 6 10(6), 952-957 (2013)
93. SULC, J.; NEMEC, M.; JELINKOVA, H.; DOROSHENKO, M. E.; FEDOROV, P.; OSIKO, V..  
RESONANTLY DIODE PUMPING OF TM: CAF<sub>2</sub> AND TM: HO: CAF<sub>2</sub> LASERS  
PUBLISHER: OPTICAL SOCIETY OF AMERICA 26, (2013)
94. DOROSHENKO, ME; JELINEK, M; SULC, J; JELINKOVA, H; NEMEC, M; OSIKO, VV; BADIKOV, VV; BADIKOV, DV.  
DIODE-PUMPED DYSPROSIUM-DOPED-PBGA2S4 MID-INFRARED LASER  
2013 CONFERENCE ON LASERS AND ELECTRO-OPTICS EUROPE AND INTERNATIONAL

- QUANTUM ELECTRONICS CONFERENCE (CLEO EUROPE/IQEC) , - (2013)
95. SELIVERSTOV, DM; DEMIDENKO, AA; GARIBIN, EA; GAIN, SD; GUSEV, YI; FEDOROV, PP; KOSYANENKO, SV; MIRONOV, IA; OSIKO, VV; RODNYI, PA; SMIRNOV, AN; SUVOROV, VM.  
NEW FAST SCINTILLATORS ON THE BASE OF BAF2 CRYSTALS WITH INCREASED LIGHT YIELD OF 0.9 NS LUMINESCENCE FOR TOF PET  
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT 695, 369-372 (2012)
96. OSIKO, VV; LOMONOVA, EE.  
MULTIFUNCTIONAL MATERIALS BASED ON NANOSTRUCTURED PARTIALLY STABILIZED ZIRCONIA CRYSTALS  
HERALD OF THE RUSSIAN ACADEMY OF SCIENCES 82(5), 373-380 (2012)
97. BELOV, SV; DANILEIKO, YK; LEBEDEVA, TP; NEFEDOV, SM; OSIKO, VV; SALYUK, VA.  
SPECTRAL-LUMINESCENT INVESTIGATION OF ABSORPTION OF PHTALOCYANINE PHOTOSENSITIZERS ON A ZIRCONIA SURFACE  
DOKLADY PHYSICS 57(7), 262-265 (2012)
98. FEDOROV, PP; MAYAKOVA, MN; KUZNETSOV, SV; VORONOV, VV; ERMAKOV, RP; SAMARINA, KS; POPOV, AI; OSIKO, VV.  
CO-PRECIPITATION OF YTTRIUM AND BARIUM FLUORIDES FROM AQUEOUS SOLUTIONS  
MATERIALS RESEARCH BULLETIN 47(7), 1794-1799 (2012)
99. LUGININA, AA; FEDOROV, PP; KUZNETSOV, SV; MAYAKOVA, MN; OSIKO, VV; IVANOV, VK; BARANCHIKOV, AE.  
SYNTHESIS OF ULTRAFINE FLUORITE SR1-X ND (X) F2+X POWDERS  
INORGANIC MATERIALS 48(5), 531-538 (2012)
100. POPOV, PA; FEDOROV, PP; REITEROV, VM; GARIBIN, EA; DEMIDENKO, AA; MIRONOV, IA; OSIKO, VV.  
THERMAL CONDUCTIVITY OF SINGLE CRYSTALS OF CA1-XERXF2+X AND CA1-XTMXF2+X SOLID SOLUTIONS  
DOKLADY PHYSICS 57(3), 97-99 (2012)
101. POPOV, PA; MOISEEV, NV; FILIMONOVA, AV; FEDOROV, PP; KONYUSHKIN, VA; OSIKO, VV; PAPASHVILI, AG; SMIRNOV, AN; MIRONOV, IA.  
THERMAL CONDUCTIVITY OF LAF3-BASED SINGLE CRYSTALS AND CERAMICS  
INORGANIC MATERIALS 48(3), 304-308 (2012)
102. ALIMOV, OK; BASIEV, TT; DOROSHENKO, ME; FEDOROV, PP; KONYUSHKIN, VA; NAKLADOV, AN; OSIKO, VV.  
INVESTIGATION OF ND3+ IONS SPECTROSCOPIC AND LASER PROPERTIES IN SRF2 FLUORIDE SINGLE CRYSTAL  
OPTICAL MATERIALS 34(5), 799-802 (2012)
103. BORIK, MA; BUBLIK, VT; VISHNYAKOVA, MA; KULEBYAKIN, AV; LOMONOVA, EE; MYZINA, VA; MILOVICH, FO; OSIKO, VV; TABACHKOVA, NY.  
EFFECT OF Y2O3 STABILIZER CONTENT AND ANNEALING ON THE STRUCTURAL TRANSFORMATIONS OF ZRO2  
INORGANIC MATERIALS 48(2), 156-160 (2012)
104. DUNAEVA, E. E.; IVIEVA, L. I.; LYKOV, P. A.; ZVEREV, P. G.; OSIKO, V. V..  
GROWTH PECULIARITIES AND NON-LINEAR PROPERTIES OF PROFILED DOPED STRONTIUM-BARIUM NIOBATE CRYSTALS

- ADV. LASER TECHNOL. 12, 1 (2012)
105. FEDOROV, PP; OSIKO, VV; KUZNETSOV, SV; GARIBIN, EA.  
FLUORIDE LASER NANOCERAMICS  
IV NANOTECHNOLOGY INTERNATIONAL FORUM (RUSNANOTECH 2011) 345, - (2012)
106. BASIEV, TT; BASIEVA, IT; KORNIENKO, AA; OSIKO, VV; PUKHOV, KK;  
SEKATSKII, SK.  
PRE-SELECTION OF OPTICAL TRANSITIONS IN RARE-EARTH IONS IN CRYSTALS  
PERSPECTIVE FOR QUANTUM INFORMATION PROCESSING  
JOURNAL OF MODERN OPTICS 59(2), 166-178 (2012)
107. RYABOCHKINA, PA; LYAPIN, AA; OSIKO, VV; FEDOROV, PP; USHAKOV, SN;  
KRUGLOVA, MV; SAKHAROV, NV; GARIBIN, EA; GUSEV, PE; KRUTOV, MA.  
STRUCTURAL, SPECTRAL-LUMINESCENT, AND LASING PROPERTIES OF  
NANOSTRUCTURED TM:CAF<sub>2</sub> CERAMICS  
QUANTUM ELECTRONICS 42(9), 853-857 (2012)
108. DOROSHENKO, M.E; BASIEV, T.T; KONYUSHKIN, V.A; OSIKO, V.V; JELINKOVA,  
H; SULC, J.  
LASER PROPERTIES OF ER<sup>3+</sup> IONS IN CAF<sub>2</sub> AND CAF<sub>2</sub>-SRF<sub>2</sub> FLUORIDE CERAMICS  
CONFERENCE: THE 15TH INT. CONF. LASER OPTICS 2012 LOCATION: ST.  
PETERSBURG, RUSSIA DATE: JUNE , 25 (2012)
109. OSIKO, V V; LOMONOVA, EE.  
POLYFUNCTIONAL MATERIALS BASED ON NANO-STRUCTURED CRYSTALS OF  
PARTIALLY STABILIZED ZIRCONIA  
BULLETIN OF THE RUSSIAN ACADEMY OF SCIENCES (9), 790 (2012)
110. SULC, J; DOROSCHENKO, ME; JELINKOVA, H; BASIEV, TT; KONYUSHKIN, VA;  
OSIKO, VV.  
TUNABILITY OF LASER BASED ON YB-DOPED HOT-PRESSED CAF<sub>2</sub> CERAMICS  
LASER SOURCES AND APPLICATIONS 8433, - (2012)
111. KUZNETSOV, S. V.; RYABOVA, A. V.; LOS', D. S.; FEDOROV, P. P.; VORONOV, V.  
V.; ERMAKOV, R. P.; LOSHCHEV, V. B.; VOLKOV, V. V.; BARANCHIKOV, A. E.; OSIKO,  
V. V..  
SYNTHESIS AND LUMINESCENT CHARACTERISTICS OF SUBMICRON POWDERS ON THE  
BASIS OF SODIUM AND YTTRIUM FLUORIDES DOPED WITH RARE EARTH ELEMENTS  
NANOTECHNOLOGIES IN RUSSIA 7(11-12), 615 (2012)
112. SULC, J.; NEMEC, M.; DOROSHENKO, M.; JELINKOVA, H.; BASIEV, T.;  
KONYUSKHIN, V.; OSIKO, V..  
DIODE PUMPED TUNABLE TM:BAF<sub>2</sub>-SRF<sub>2</sub> LASER  
CONFERENCE: EUROPHYSICS CONFERENCE ABSTRACT LOCATION: MULHOUSE  
CEDEX SPONSOR(S): EUROPEAN PHYSICAL SOCIETY 36, (2012)
113. BASIEV, T. T.; DANILEIKO, Y. K.; DOROSHENKO, M. E.; FEDIN, A. V.; GAVRILOV,  
A. V.; OSIKO, V. V.; SMETANIN, S. N..  
HIGH-ENERGY BAWO<sub>4</sub> RAMAN LASER PUMPED BY A SELF-PHASE-CONJUGATED  
ND:GGG LASER  
PROC. SPIE 14(7), 917 (2012)
114. MASLOV, V.A.; FEDOROV, P.P.; VORONOV, V.V.; SHCHERBAKOV, V.V.;  
CHERNOVA, E.V.; OSIKO, V.V..  
FLUORIDE MICROPOWDERS FOR LASER CERAMICS  
INORGANIC MATERIALS: APPLIED RESEARCH 3(2), 113 (2012)
115. FEDOROV, PP; LUGININA, AA; KUZNETSOV, SV; OSIKO, VV.

## NANOFLUORIDES

JOURNAL OF FLUORINE CHEMISTRY 132(12), 1012-1039 (2011)

116. IVLEVA, LI; OSIKO, VV; DUNAEVA, EE; PETROV, VS; NIKOLAEVSKY, AV.  
CRYSTAL GROWTH AND PHYSICAL PROPERTIES OF BETA-NAXV2O5 BRONZE  
JOURNAL OF CRYSTAL GROWTH 336(1), 89-93 (2011)
117. DYMKOVETS, VP; EZHOV, VV; MANYKIN, AA; BELOV, SV; DANILEIKO, YK;  
OSIKO, VV; SALYUK, VA.  
EVALUATION OF HUMAN PAPILLOMAVIRUS ELIMINATION FROM CERVIX UTERI BY  
INFRARED LASER EXPOSURE  
BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE 152(2), 228-230 (2011)
118. FEDOROV, PP; KUZNETSOV, SV; MAYAKOVA, MN; VORONOV, VV; ERMAKOV,  
RP; BARANCHIKOV, AE; OSIKO, VV.  
COPRECIPITATION FROM AQUEOUS SOLUTIONS TO PREPARE BINARY FLUORIDES  
RUSSIAN JOURNAL OF INORGANIC CHEMISTRY 56(10), 1525-1531 (2011)
119. KUZNETSOV, SV; FEDOROV, PP; VORONOV, VV; OSIKO, VV.  
SYNTHESIS OF MGAL2O4 NANOPOWDERS  
INORGANIC MATERIALS 47(8), 895-898 (2011)
120. JELINKOVA, H; DOROSHENKO, ME; JELINEK, M; SULC, J; BASIEV, TT; OSIKO,  
VV; BADIKOV, VV; BADIKOV, DV.  
RESONANT PUMPING OF DYSPROSIUM DOPED LEAD THIOGALLATE BY 1.7  $\mu\text{m}$   
ER:YLF LASER RADIATION  
LASER PHYSICS LETTERS 8(5), 349-353 (2011)
121. SHCHEULIN, AS; RYSKIN, AI; ANGERVAKS, AE; FEDOROV, PP; OSIKO, VV;  
DEMIDENKO, AA; GARIBIN, EA; SMIRNOV, AN; DUKEL'SKII, KV; MIRONOV, IA.  
ADDITIVE COLORING OF CAF<sub>2</sub> OPTICAL CERAMIC  
OPTICS AND SPECTROSCOPY 110(4), 604-608 (2011)
122. BOL'SHCHIKOV, FA; GARIBIN, EA; GUSEV, PE; DEMIDENKO, AA; KRUGLOVA,  
MV; KRUTOV, MA; LYAPIN, AA; MIRONOV, IA; OSIKO, VV; REITEROV, VM;  
RYABOCHKINA, PA; SAKHAROV, NV; SMIRNOV, AN; USHAKOV, SN; FEDOROV, PP.  
NANOSTRUCTURED TM:CAF<sub>2</sub> CERAMICS: POTENTIAL GAIN MEDIA FOR TWO-  
MICRON LASERS  
QUANTUM ELECTRONICS 41(3), 193-197 (2011)
123. OSIKO, V. V.; FEDEROV, P. P.; MIRANOV, I. A.; GARIBIN, E. A.; DEMIDENKO, A.  
A.; REITEROV, V. M.; SMIRNOV, A. N.; SMIRNOV, P. A.; GUSEV, P. E.; KRUTOV, M. A..  
PREPARATION OF SCINTILLATING SINGLE-CRYSTALS AND CERAMICS BASED ON BAF<sub>2</sub>  
CONFERENCE: PROC. 11TH SCINT LOCATION: GIESSEN, GERMANY DATE: SEP. 11-16,  
2011 , 311 (2011)
124. FEDOROV, P. P.; MAYAKOVA, M. N.; KUZNETSOV, S. V.; VORONOV, V. V.;  
OSIKO, V. V.; ERMAKOV, R. P.; GONTAR, I. V.; TIMOFEEV, A. A.; ISKHAKOVA, L. D..  
COPRECIPITATION OF BARIUM-BISMUTH FLUORIDES FROM AQUEOUS SOLUTIONS:  
NANOCHEMICAL EFFECTS  
NANOTECHNOLOGIES IN RUSSIA 6(3-4), 203 (2011)
125. AKCHURIN, M.SH.; GAINUTDINOV, R.V.; GARIBIN, E.A.; GOLOVIN, YU.I.;  
DEMIDENKO, A.A.; DUKEL'SKII, K.V.; KUZNETSOV, S.V.; MIRONOV, I.A.; OSIKO, V.V.;  
SMIRNOV, A.N.; TABACHKOVA, N.YU.; TYURIN, A.I.; FEDOROV, P.P.; SHINDYAPIN,  
V.V..  
NANOSTRUCTURE OF OPTICAL FLUORIDE CERAMICS  
INORGANIC MATERIALS: APPLIED RESEARCH 2(2), 97 (2011)

126. IVLEVA, L. I.; OSIKO, V. V.; PETROV, V. S.; NIKOLAEVSKII, A. V.; DUNAEVA, E. E.; LOGINOV, B. A.; STEPAREVA, N. N..  
GROWTH OF SINGLE CRYSTALS OF SODIUM VANADATE BRONZE AND INVESTIGATION INTO THEIR PHYSICO-CHEMICAL AND EMISSION-GETTER CHARACTERISTICS  
NANOTECHNOLOGIES IN RUSSIA 6(5-6), 379 (2011)
127. BUZYNIN, A.N.; BUZYNIN, YU.N.; OSIKO, V.V.; PANOV, V.I.; ZVONKOV, B.N.; CHINAREVA, I.V.; KHAKAUSHEV, P.E.; TRISHENKOV, M.A..  
ANTIREFLECTION FLUORIDE AND ZRO<sub>2</sub> COATINGS FOR SOLAR CELLS  
BULLETIN OF THE RUSSIAN ACADEMY OF SCIENCES. PHYSICS 75(9), 1213 (2011)
128. IVLEVA, LI; OSIKO, VV; PETROV, VS; NIKOLAEVSKY, AV; DUNAEVA, EE.  
MECHANISM OF FORMATION OF Na<sub>2</sub>V<sub>2</sub>O<sub>5</sub> BRONZE CRYSTALS GROWN FROM THE MELT BY CZOCHRALSKI METHOD  
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES 67, C460-C460 (2011)
129. BALAN, OV; BELOV, SV; DANILEIKO, YK; DUBOVAYA, TK; MARKITANTOVA, YV; OSIKO, VV; SALYUK, VA; SUHORUKOV, VS; OZERNNYUK, ND.  
ACTIVATION OF RECONSTRUCTIVE PROCESSES IN RAT TISSUES UNDER THE ACTION OF RADIOFREQUENCY CURRENT WITH A PERIODIC IMPULSE MODE OF MODULATION  
BIOLOGY BULLETIN 37(6), 551-557 (2010)
130. BASIEV, TT; DOROSHENKO, ME; KONYUSHKIN, VA; OSIKO, VV.  
Sr<sup>2+</sup>:Nd<sup>3+</sup> LASER FLUORIDE CERAMICS  
OPTICS LETTERS 35(23), 4009-4011 (2010)
131. VANETSEV, AS; KARPUKHINA, EA; CHUVASHOVA, IG; GAITKO, OM; BARANCHIKOV, AE; ORLOVSKII, YV; OSIKO, VV; TRET'YAKOV, YD.  
MICROWAVE SYNTHESIS OF MONODISPERSE LUMINESCENT Y<sub>2</sub>X EU (X) O-3 POWDERS WITH SPHERICAL PARTICLES OF PREDETERMINED SIZE  
DOKLADY CHEMISTRY 435, 289-293 (2010)
132. BOGODAEV, NV; IVLEVA, LI; LYKOV, PA; OSIKO, VV; GORDEEV, AA.  
DYNAMIC HOLOGRAPHY METHOD FOR NONDESTRUCTIVE TESTING OF OPTICAL HOMOGENEITY OF TRANSPARENT MEDIA  
CRYSTALLOGRAPHY REPORTS 55(6), 1000-1005 (2010)
133. SULC, J; JELINKOVA, H; DOROSHENKO, ME; BASIEV, TT; OSIKO, VV; BADIKOV, VV; BADIKOV, DV.  
DYSPROSIUM-DOPED PBGA<sub>2</sub>S<sub>4</sub> LASER EXCITED BY DIODE-PUMPED Nd:YAG LASER  
OPTICS LETTERS 35(18), 3051-3053 (2010)
134. DEMIDENKO, AA; GARIBIN, EA; GAIN, SD; GUSEV, YI; FEDOROV, PP; MIRONOV, IA; MICHKIN, SB; OSIKO, VV; RODNYI, PA; SELIVERSTOV, DM; SMIRNOV, AN.  
SCINTILLATION PARAMETERS OF BAF<sub>2</sub> AND BAF<sub>2</sub>:Ce<sup>3+</sup> CERAMICS  
OPTICAL MATERIALS 32(10), 1291-1293 (2010)
135. KHAZANOV, EN; TARANOV, AV; GAINUTDINOV, RV; AKCHURIN, MS; BASIEV, TT; KONYUSHKIN, VA; FEDOROV, PP; KUZNETSOV, SV; OSIKO, VV.  
A STUDY OF THE STRUCTURE AND SCATTERING MECHANISMS OF SUBTERAHERTZ PHONONS IN LITHIUM FLUORIDE SINGLE CRYSTALS AND OPTICAL CERAMICS  
JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS 110(6), 983-988 (2010)
136. FEDOROV, PP; TKACHENKO, EA; KUZNETSOV, SV; VORONOV, VV; OSIKO, VV; SAMARINA, KS; BATYREV, NI; GONTAR', IV; IVANOV, VK.  
YTTRIUM OXIDE NANOPOWDERS FROM CARBONATE PRECURSORS  
RUSSIAN JOURNAL OF INORGANIC CHEMISTRY 55(6), 821-827 (2010)



137. KUZNETSOV, SV; FEDOROV, PP; VORONOV, VV; SAMARINA, KS; ERMAKOV, RP; OSIKO, VV.  
SYNTHESIS OF BA4R3F17 (R STANDS FOR RARE-EARTH ELEMENTS) POWDERS AND TRANSPARENT COMPACTS ON THEIR BASE  
RUSSIAN JOURNAL OF INORGANIC CHEMISTRY 55(4), 484-493 (2010)
138. POPOV, PA; FEDOROV, PP; OSIKO, VV.  
THERMAL CONDUCTIVITY OF SINGLE CRYSTALS WITH A FLUORITE STRUCTURE: CADMIUM FLUORIDE  
PHYSICS OF THE SOLID STATE 52(3), 504-508 (2010)
139. DENKER, BI; GALAGAN, BI; OSIKO, VV; SHULMAN, IL; SVERCHKOV, SE; DIANOV, EM.  
FACTORS AFFECTING THE FORMATION OF NEAR INFRARED-EMITTING OPTICAL CENTERS IN BI-DOPED GLASSES  
APPLIED PHYSICS B-LASERS AND OPTICS 98(2-3), 455-458 (2010)
140. DOROSHENKO, ME; JELINKOVA, H; KORANDA, P; SULC, J; BASIEV, TT; OSIKO, VV; KOMAR, VK; GERASIMENKO, AS; PUZIKOV, VM; BADIKOV, VV; BADIKOV, DV.  
TUNABLE MID-INFRARED LASER PROPERTIES OF CR<sup>2+</sup>:ZNMGSE AND FE<sup>2+</sup>:ZNSE CRYSTALS  
LASER PHYSICS LETTERS 7(1), 38-45 (2010)
141. BASIEV, TT; DOROSHENKO, ME; OSIKO, VV; BADIKOV, VV; BADIKOV, DV; PANYUTIN, VL; SHEVYRDYAEVA, GS.  
QUALITATIVE IMPROVEMENT IN THE LASING PERFORMANCE OF PBGA2S4:DY<sup>3+</sup> CRYSTALS THROUGH NA<sup>+</sup> DOPING  
QUANTUM ELECTRONICS 40(7), 596-598 (2010)
142. BASIEV, TT; BASIEVA, MN; GAVRILOV, AV; ERSHKOV, MN; IVLEVA, LI; OSIKO, VV; SMETANIN, SN; FEDIN, AV.  
EFFICIENT CONVERSION OF ND:YAG LASER RADIATION TO THE EYE-SAFE SPECTRAL REGION BY STIMULATED RAMAN SCATTERING IN BAWO<sub>4</sub> CRYSTAL  
QUANTUM ELECTRONICS 40(8), 710-715 (2010)
143. FEDOROV, P. P.; VORONOV, V. V.; IVANOV, V. K.; KONYUSHKIN, V. A.; KUZNETSOV, S. V.; LAVRISHCHEV, S. V.; NIKOLAEV, A. L.; OSIKO, V. V.; TKACHENKO, E. A..  
EVOLUTION OF YTTRIA NANOPARTICLE ENSEMBLES  
NANOTECHNOLOGIES IN RUSSIA 5(9-10), 624 (2010)
144. BUZYNIN, A.N.; OSIKO, V.V.; BUZYNIN, YU.N.; ZVONKOV, B.N.; DROZDOV, YU.N.; KHRYKIN, O.I.; DROZDOV, M.N.; TRISHENKOV, M.A.; LUK'YANOV, A.E.; LUK'YANOV, F.A..  
FIANITE: A MULTIPURPOSE ELECTRONICS MATERIAL  
BULLETIN OF THE RUSSIAN ACADEMY OF SCIENCES. PHYSICS 74(7), 1027 (2010)
145. DOROSHENKO, ME; BASIEV, TT; OSIKO, VV; JELINKOVA, H; SULC, J; JELINEK, M; FIBRICH, M; BADIKOV, VV.  
FOUR MICRON RADIATION GENERATED BY DYSPROSIUM DOPED LEAD THIOGALLATE LASER  
SOLID STATE LASERS XIX: TECHNOLOGY AND DEVICES 7578, - (2010)
146. KORANDA, P; SULC, J; DOROSHENKO, M; JELINKOVA, H; BASIEV, TT; OSIKO, V; BADIKOV, VV; BADIKOV, D.  
CR:ZNSE LASER PUMPED WITH TM:YAP MICROCHIP LASER  
SOLID STATE LASERS XIX: TECHNOLOGY AND DEVICES 7578, - (2010)

147. BUZYNIN, YN; BUZYNIN, AN; OSIKO, VV; DROZDOV, MN; LOMONOVA, EE; KHRYKIN, OI; ZVONKOV, BN.  
GROWTH AND PROPERTIES III-V FILMS AND MULTILAYERED STRUCTURES ON FIANITE SUBSTRATES AND BUFFER LAYERS  
INEC: 2010 3RD INTERNATIONAL NANOELECTRONICS CONFERENCE, VOLS 1 AND 2 , 1086-+ (2010)
148. BUZYNIN, AN; OSIKO, VV; BUZYNIN, YN; DROZDOV, MN; LOMONOVA, EE; KHRYKIN, OI; TRISHENKOV, MA; ZVONKOV, BN.  
FIANITE IN ELECTRONICS AND PHOTONICS  
INEC: 2010 3RD INTERNATIONAL NANOELECTRONICS CONFERENCE, VOLS 1 AND 2 , 1307-+ (2010)
149. OSIKO, V.V.; BORIK, M.A.; LOMONOVA, E.E.; DHANARAJ, G.; BYRAPPA, K.; PRASAD, V.; DUDLEY, M..  
SYNTHESIS OF REFRACTORY MATERIALS BY SKULL MELTING  
PUBLISHER: SPRINGER, NEWYORK , 433 (2010)
150. BELOV, SV; BORIK, MA; DANILEIKO, YK; LOMONOVA, EE; OSIKO, VV; RIABOKON, BV; SALYUK, VA.  
ELECTROSURGICAL INSTRUMENTS BASED ON NANOSTRUCTURED CRYSTALS DIOXIDE ZIRCONIUM FOR DISSECTION AND COAGULATION OF TISSUES  
MEDICAL FACILITIES (4), 1 (2010)
151. PALASHOV, OV; KHAZANOV, EA; MUKHIN, IB; SMIRNOV, AN; MIRONOV, IA; DUKEL'SKII, KV; GARIBIN, EA; FEDOROV, PP; KUZNETSOV, SV; OSIKO, VV; BASIEV, TT; GAINUTDINOV, RV.  
OPTICAL ABSORPTION IN  $\text{CaF}_2$  NANOCERAMICS  
QUANTUM ELECTRONICS 39(10), 943-947 (2009)
152. BASIEV, TT; BAUMER, VN; GOROBETS, YN; DOROSHENKO, ME; KOSMYNA, MB; NAZARENKO, BP; OSIKO, VV; PUZIKOV, VM; SHEKHOVTSOV, AN.  
PECULIARITIES OF THE GROWTH OF  $\text{PbWO}_4:\text{Nd}^{3+}$  AND  $\text{PbMOO}_4:\text{Nd}^{3+}$  SINGLE CRYSTALS  
CRYSTALLOGRAPHY REPORTS 54(4), 697-701 (2009)
153. DENKER, B; GALAGAN, B; OSIKO, V; SHULMAN, I; SVERCHKOV, S; DIANOV, E.  
ABSORPTION AND EMISSION PROPERTIES OF BI-DOPED MG-AL-SI OXIDE GLASS SYSTEM  
APPLIED PHYSICS B-LASERS AND OPTICS 95(4), 801-805 (2009)
154. BABURIN, NV; BELOV, SV; DANILEIKO, YK; EGOROV, AB; LEBEDEVA, TP; NEFEDOV, SM; OSIKO, VV; SALYUK, VA.  
HETEROGENEOUS RECOMBINATION IN STEAM PLASMA AS A MECHANISM OF AFFECTING BIOLOGICAL TISSUES  
DOKLADY PHYSICS 54(6), 259-261 (2009)
155. DENKER, B; GALAGAN, B; OSIKO, V; SHULMAN, I; SVERCHKOV, S; DIANOV, E.  
THE IR EMITTING CENTERS IN BI-DOPED MG-AL-SI OXIDE GLASSES  
LASER PHYSICS 19(5), 1105-1111 (2009)
156. OSIKO, VV.  
EXTRA-STRONG WEAR-RESISTANT MATERIALS BASED ON NANOSTRUCTURED CRYSTALS OF PARTIALLY STABILIZED ZIRCONIUM DIOXIDE  
MENDELEEV COMMUNICATIONS 19(3), 117-122 (2009)
157. POPOV, PA; FEDOROV, PP; SEMASHKO, VV; KORABLEVA, SL; MARISOV, MA; GORDEEV, EY; REITEROV, VM; OSIKO, VV.

- THERMAL CONDUCTIVITY OF CRYSTALS FORMED BY FLUORITELIKE PHASES IN MF-RF3 SYSTEMS (M = LI, NA, AND K, R = RARE EARTH)  
DOKLADY PHYSICS 54(5), 221-224 (2009)
158. BASIEV, T; DOROSHENKO, M; IVLEVA, L; VORONINA, I; KONJUSHKIN, V; OSIKO, V; VASILYEV, S.  
DEMONSTRATION OF HIGH SELF-RAMAN LASER PERFORMANCE OF A DIODE-PUMPED SRMOO4:ND3+ CRYSTAL  
OPTICS LETTERS 34(7), 1102-1104 (2009)
159. BASIEV, TT; KARASIK, AY; OSIKO, VV; PAPASHVILI, AG; CHUNAIEV, DS; GAVRILOV, AV; ERSHKOV, MN; SMETANIN, SN; SOLOKHIN, SA; FEDIN, AV; KOLOKOL'TSEV, VN; LAZORENKO, VM; TOVTIN, VI.  
TECHNOLOGIES OF PERFORATION OF CLOSELY SPACED MICRON HOLES WITH THE HELP OF NEODYMIUM - LIF:F-2(-) LASERS  
QUANTUM ELECTRONICS 39(4), 385-387 (2009)
160. DOROSHENKO, ME; BASIEV, TT; OSIKO, VV; BADIKOV, VV; BADIKOV, DV; JELINKOVA, H; KORANDA, P; SULC, J.  
OSCILLATION PROPERTIES OF DYSPROSIUM-DOPED LEAD THIOGALLATE CRYSTAL  
OPTICS LETTERS 34(5), 590-592 (2009)
161. BASIEV, TT; GAVRILOV, AV; OSIKO, VV; SMETANIN, SN; FEDIN, AV.  
STUDY OF DIFFRACTION-COUPLED LASING IN A SET OF LASERS WITH SELF-PUMPED PHASE-CONJUGATE MIRRORS ON GAIN GRATINGS IN THE CASE OF SHORT-RANGE COUPLING  
QUANTUM ELECTRONICS 39(1), 31-35 (2009)
162. DOROSHENKO, M.; BASIEV, T.; OSIKO, V.; JELINKOVA, H.; KORANDA, P.; KOMAR, V.; GERASIMENKO, A.; PUSIKOV, V.; BADIKOV, V.V.; BADIKOV, D.V..  
SPECTROSCOPIC AND OSCILLATION PROPERTIES OF CR2+ AND FE2+ IONS IN ZNSE AND ZNMGSE CRYSTALS  
CONFERENCE: MIDDLE INFRARED COHERENT SOURCES MICS'2009, CONFERENCE PROGRAM, TH2 LOCATION: TROUVILLE, FRANCE DATE: JUNE 8 -12 , (2009)
163. ALIMOV, O. K.; BASIEV, T. T.; DOROSHENKO, M. E.; FEDOROV, P. P.; KONYUSHKIN, V. A.; KOUZNETSOV, S. V.; NAKLADOV, A. N.; OSIKO, V. V.; JELINKOVA, H.; SULC, J..  
SPECTROSCOPIC AND OSCILLATION PROPERTIES OF YB3+IONS IN BAF2-SRF2-CAF2CRYSTALS AND CERAMICS  
PUBLISHER: SOCIETY OF AMERICA , (2009)
164. NAKLADOV, A.N.; KONYUSHKIN, V.A.; DOROSHENKO, M.E.; BASIEV, T.T.; ALIMOV, O.K.; OSIKO, V.V.; FEDOROV, P.P..  
SPECTROSCOPIC AND OSCILLATION PROPERTIES OF ND3+IONS OPTICAL CENTERS IN SRF2CRYSTAL  
CONFERENCE: 2ND INTERNATIONAL CONFERENCE ON PHYSICS OF OPTICAL MATERIALS AND DEVICES (ICOM 2009) LOCATION: HERCEG NOVI, MONTENEGRO , (2009)
165. BUZYNIN, YU.N.; DROZDOV, M.N.; BUZYNIN, A.N.; OSIKO, V.V.; ZVONKOV, B.N.; DROZDOV, YU.N.; PARAFIN, A.E.; MUREL, A.V.; KHRYKIN, O.I.; LUK'YANOV, A.E.; LUK'YANOV, F.A.; SENNOV, R.A..  
HETEROEPITAXIAL III-V FILMS ON FIANITE SUBSTRATES AND BUFFER LAYERS  
BULLETIN OF THE RUSSIAN ACADEMY OF SCIENCES. PHYSICS 73(4), 485 (2009)
166. BASIEV, T T; DOROSHENKO, M E; FEDOROV, P P; KONYUSHKIN, V A;

- KOUZNETSOV, S V; NAKLADOV, A N; OSIKO, V V.  
LASER PROPERTIES OF ND<sup>3+</sup> AND YB<sup>3+</sup> IONS IN CaF<sub>2</sub> CRYSTALS AND CERAMICS  
CONFERENCE: 5TH LASER CERAMICS SYMPOSIUM: INTERNATIONAL SYMPOSIUM ON  
TRANSPARENT CERAMICS FOR PHOTONIC APPLICATIONS BILBAO LOCATION:  
SPAIN DATE: DECEMBER 9-11, 2009 , (2009)
167. FEDOROV, P. P.; OSIKO, V. V..  
FORMATION OF NANOPARTICLES AGGREGATES BY SOFT CHEMISTRY  
RARE METALS (CHINA) 28, 671 (2009)
168. ZAGORUIKO, YU A.; KOVALENKO, N. O.; PUZIKOV, V. M.; FEDORENKO, O. A.;  
BASIEV, T. T.; DOROSHENKO, M. E.; OSIKO, V. V.; JELINKOVA, H.; KORANDA, P..  
ZNMGSE:CR<sup>2+</sup> - A NEW ACTIVE MEDIUM FOR LASERS OF MIDDLE IR  
FUNCTIONAL MATERIALS 16(3), 329 (2009)
169. IVLEVA, LI; VORONINA, IS; BEREZOVSKAYA, LY; LYKOV, PA; OSIKO, VV;  
ISKHAKOVA, LD.  
GROWTH AND PROPERTIES OF ZNMOO<sub>4</sub> SINGLE CRYSTALS  
CRYSTALLOGRAPHY REPORTS 53(6), 1087-1090 (2008)
170. DUKEL'SKII, KV; MIRONOV, IA; DEMIDENKO, VA; SMIRNOV, AN; FEDOROV,  
PP; OSIKO, VV; BASIEV, TT; ORLOVSKII, YV.  
OPTICAL FLUORIDE NANOCERAMIC  
JOURNAL OF OPTICAL TECHNOLOGY 75(11), 728-736 (2008)
171. BATYGOV, SK; BOLYASNIKOVA, LS; DEMIDENKO, VA; GARIBIN, EM;  
DOROSHENKO, ME; DUKEL'SKII, KV; LUGININA, AA; MIRONOV, IA; OSIKO, VV;  
FEDOROV, PP.  
BAF<sub>2</sub> : CE<sup>3+</sup> SCINTILLATION CERAMICS  
DOKLADY PHYSICS 53(9), 485-488 (2008)
172. POPOV, PA; FEDOROV, PP; KONYUSHKIN, VA; NAKLADOV, AN; KUZNETSOV,  
SV; OSIKO, VV; BASIEV, TT.  
THERMAL CONDUCTIVITY OF SINGLE CRYSTALS OF Sr<sub>1-x</sub>Yb<sub>x</sub>F<sub>2+x</sub> SOLID SOLUTION  
DOKLADY PHYSICS 53(8), 413-415 (2008)
173. BASIEV, TT; KONYUSHKIN, VA; KUZNETSOV, SV; OSIKO, VV; POPOV, PA;  
FEDOROV, PP.  
THERMAL CONDUCTIVITY OF GAMMA-IRRADIATED LiF SINGLE CRYSTALS  
TECHNICAL PHYSICS LETTERS 34(8), 702-704 (2008)
174. POPOV, PA; FEDOROV, PP; KUZNETSOV, SV; KONYUSHKIN, VA; OSIKO, VV;  
BASIEV, TT.  
THERMAL CONDUCTIVITY OF SINGLE CRYSTALS OF Ba<sub>(1-x)</sub>Yb<sub>(x)</sub>F<sub>(2+x)</sub> SOLID  
SOLUTION  
DOKLADY PHYSICS 53(7), 353-355 (2008)
175. ALIMOV, OK; BASIEV, TT; ORLOVSKII, YV; OSIKO, VV; SAMOILOVICH, MI.  
CONVERSION OF THE LUMINESCENCE OF LASER DYES IN OPAL MATRICES TO  
STIMULATED EMISSION  
QUANTUM ELECTRONICS 38(7), 665-669 (2008)
176. BASIEV, TT; DOROSHENKO, ME; KONYUSHKIN, VA; OSIKO, VV; FEDOROV, PP;  
DEMIDENKO, VA; DUKEL'SKII, KV; MIRONOV, IA; SMIRNOV, AN.  
FLUORIDE OPTICAL NANOCERAMICS  
RUSSIAN CHEMICAL BULLETIN 57(5), 877-886 (2008)
177. POPOV, PA; FEDOROV, PP; KUZNETSOV, SV; KONYUSHKIN, VA; OSIKO, VV;  
BASIEV, TT.

- THERMAL CONDUCTIVITY OF SINGLE CRYSTALS OF  $Ca_{1-x}Yb_xF_{2+x}$  SOLID SOLUTIONS  
DOKLADY PHYSICS 53(4), 198-200 (2008)
178. GALAGAN, BI; DMITRUK, LN; MOISEEVA, LV; OSIKO, VV.  
LUMINESCENCE OF  $Er^{3+}$  IONS IN MELTS BASED ON IODIDE SALTS  
DOKLADY PHYSICS 53(4), 179-181 (2008)
179. BASIEV, TT; DOROSHENKO, ME; FEDOROV, PP; KONYUSHKIN, VA;  
KUZNETSOV, SV; OSIKO, VV; AKCHURIN, MS.  
EFFICIENT LASER BASED ON  $CaF_2-SrF_2-YbF_3$  NANOCERAMICS  
OPTICS LETTERS 33(5), 521-523 (2008)
180. BORIK, M. A.; VISHNYAKOVA, M. A.; ZHIGALINA, O. M.; KULEBYAKIN, A. V.;  
LAVRISHCHEV, S. V.; LOMONOVA, E. E.; OSIKO, V. V..  
INVESTIGATION OF THE MICROSTRUCTURE AND NANOSTRUCTURE OF PARTIALLY  
STABILIZED ZIRCONIA CRYSTALS  
NANOTECHNOLOGIES IN RUSSIA 3(11-12), 710 (2008)
181. SULC, J; JELINKOVA, H; NEJEZCHLEB, K; SKODA, V; BASIEV, TT; DOROSHENKO,  
ME; IVLEVA, LI; OSIKO, VV; ZVEREV, PG.  
PULSED SELF-RAMAN LASER OPERATION IN  $Nd : SrMOO_4$  AT 1.57  $\mu m$   
NONLINEAR FREQUENCY GENERATION AND CONVERSION: MATERIALS, DEVICES,  
AND APPLICATIONS VII 6875, - (2008)
182. BASIEV, TT; DOROSHENKO, ME; IVLEVA, LI; OSIKO, VV; BADIKOV, VV;  
BADIKOV, DV.  
SOME NEW APPROACHES FOR DEVELOPMENT OF MID-IR LASER SOURCES  
SOLID STATE LASERS AND AMPLIFIERS III 6998, - (2008)
183. BASIEV, TT; VORONOV, VV; KONYUSHKIN, VA; KUZNETSOV, SV;  
LAVRISHCHEV, SV; OSIKO, VV; FEDOROV, PP; ANKUDINOV, AB; ALYMOV, MI.  
OPTICAL LITHIUM FLUORIDE CERAMICS  
DOKLADY PHYSICS 52(12), 677-680 (2007)
184. BASLEV, TT; DOROSHENKO, ME; KONYUSHKIN, VA; OSIKO, VV; IVANOV, LI;  
SIMAKOV, SV.  
LASING IN DIODE-PUMPED FLUORIDE NANOSTRUCTURE  $F_2(-)$ :  $LiF$  COLOUR CENTRE  
CERAMICS  
QUANTUM ELECTRONICS 37(11), 989-990 (2007)
185. BORIK, MA; VISHNYAKOVA, MA; VOITSITSKII, VP; KULEBYAKIN, AV;  
LOMONOVA, EE; MYZINA, VA; OSIKO, VV; PANOV, VA.  
PREPARATION AND PROPERTIES OF  $Y_2O_3$  PARTIALLY STABILIZED  $ZrO_2$  CRYSTALS  
INORGANIC MATERIALS 43(11), 1223-1229 (2007)
186. BASIEV, TT; VASIL'EV, SV; DOROSHENKO, ME; KONYUSHKIN, VA; KUMETSOV,  
SV; OSIKO, VV; FEDOROV, PP.  
EFFICIENT LASING IN DIODE-PUMPED  $Yb^{3+} : CaF_2-SrF_2$  SOLID-SOLUTION SINGLE  
CRYSTALS  
QUANTUM ELECTRONICS 37(10), 934-937 (2007)
187. GALAGAN, BI; DENKER, BI; OSIKO, VV; SVERCHKOV, SE.  
EFFICIENCY OF POPULATION OF THE  $I-4(13/2)$  LEVEL OF THE  $Er^{3+}$  ION AND THE  
POSSIBILITY OF LASING AT 1.5  $\mu m$  IN  $Yb, Er : YAG$  AT HIGH TEMPERATURES  
QUANTUM ELECTRONICS 37(10), 971-973 (2007)
188. SULC, J; JELINKOVA, H; BASIEV, TT; DOROSCHENKO, ME; IVLEVA, LI; OSIKO,  
VV; ZVEREV, PG.  
 $Nd : SrWO_4$  AND  $Nd : BaWO_4$  RAMAN LASERS

- OPTICAL MATERIALS 30(1), 195-197 (2007)
189. IVANOV, VK; BARANCHIKOV, AE; VANETSEV, AS; SHAPOREV, AS; POLEZHAEVA, OS; TRET'YAKOV, YD; FEDOROV, PP; OSIKO, VV.  
EFFECT OF HYDROTHERMAL AND ULTRASONIC/HYDROTHERMAL TREATMENT ON THE PHASE COMPOSITION AND MICROMORPHOLOGY OF YTTRIUM HYDROXOCARBONATE  
RUSSIAN JOURNAL OF INORGANIC CHEMISTRY 52(9), 1321-1327 (2007)
190. IVLEVA, LI; VORONINA, IS; LYKOV, PA; BEREZOVSKAYA, LY; OSIKO, VV.  
GROWTH OF OPTICALLY HOMOGENEOUS BAWO<sub>4</sub> SINGLE CRYSTALS FOR RAMAN LASERS  
JOURNAL OF CRYSTAL GROWTH 304(1), 108-113 (2007)
191. ORLOVSKII, YV; BASIEV, TT; PUKHOV, KK; DOROSHENKO, ME; BADIKOV, VV; BADIKOV, DV; ALIMOV, OK; POLYACHENKOVA, MV; DMITRUK, LN; OSIKO, VV; MIROV, SB.  
MID-IR TRANSITIONS OF TRIVALENT NEODYMIUM IN LOW PHONON LASER CRYSTALS  
OPTICAL MATERIALS 29(9), 1115-1128 (2007)
192. GALAGAN, BI; DMITRUK, LN; MOISEEVA, LV; OSIKO, VV; BREKHOVSKIKH, MN; FEDOROV, VA.  
SYNTHESIS AND INVESTIGATION OF AG-CS-X (X = I, BR, CL) GLASSES DOPED WITH ER<sup>3+</sup>  
GLASS PHYSICS AND CHEMISTRY 33(2), 136-139 (2007)
193. DENKER, B; GALAGAN, B; OSIKO, V; SVERCHKOV, S; DIANOV, E.  
LUMINESCENT PROPERTIES OF BI-DOPED BORO-ALUMINO-PHOSPHATE GLASSES  
APPLIED PHYSICS B-LASERS AND OPTICS 87(1), 135-137 (2007)
194. DENKER, B; GALAGAN, B; OSIKO, V; SVERCHKOV, S; BALBASHOV, AM; HELLSTROM, JE; PASISKEVICIUS, V; LAURELL, F.  
YB<sup>3+</sup>, ER<sup>3+</sup>: YAG AT HIGH TEMPERATURES: ENERGY TRANSFER AND SPECTROSCOPIC PROPERTIES  
OPTICS COMMUNICATIONS 271(1), 142-147 (2007)
195. BASIEV, TT; GAVRILOV, AV; OSIKO, VV; SMETANIN, SN; FEDIN, AV.  
OSCILLATION DYNAMICS OF A PHASE-LOCKED THREE-CHANNEL HOLOGRAPHIC ND : YAG LASER SYSTEM  
QUANTUM ELECTRONICS 37(3), 255-258 (2007)
196. KUZNETSOV, SV; YAROTSKAYA, IV; FEDOROV, PP; VORONOV, VV; LAVRISHCHEV, SV; BASIEV, TT; OSIKO, VV.  
PREPARATION OF NANOPOWDERED M<sub>1</sub>-XRFX<sub>2</sub>+X (M = CA, SR, BA; R = CE, ND, ER, YB) SOLID SOLUTIONS  
RUSSIAN JOURNAL OF INORGANIC CHEMISTRY 52(3), 315-320 (2007)
197. BASIEV, TT; GAVRILOV, A; OSIKO, VV; SMETANIN, NN; FEDIN, AV.  
STUDY OF THE SELF-PHASE-LOCKING OF A PULSED THREE-CHANNEL HOLOGRAPHIC ND : YAG LASER BY GAIN GRATINGS  
QUANTUM ELECTRONICS 37(2), 143-146 (2007)
198. SHCHERBAKOV, IA; BUNKIN, FV; DIANOV, EM; KONOV, VI; OSIKO, VV; BASIEV, TT; MAKAROV, VP; KROKHIN, ON; ZUBAREV, IG; KOVSH, IB; SEMENOV, AS.  
SERGEI IVANOVICH YAKOVLENKO - OBITUARY  
QUANTUM ELECTRONICS 37(2), 204-204 (2007)
199. POPOV, PA; DUKEL'SKII, KV; MIRONOV, IA; SMIRNOV, AN; SMOLYANSKII, PL; FEDOROV, PP; OSIKO, VV; BASIEV, TT.

- THERMAL CONDUCTIVITY OF CAF<sub>2</sub> OPTICAL CERAMIC  
DOKLADY PHYSICS 52(1), 7-9 (2007)
200. PALASHOV, OV; KHAZANOV, EA; MUKHIN, IB; MIRONOV, IA; SMIRNOV, AN;  
DUKEL'SKII, KV; FEDOROV, PP; OSIKO, VV; BASIEV, TT.  
COMPARISON OF THE OPTICAL PARAMETERS OF A CAF<sub>2</sub> SINGLE CRYSTAL AND  
OPTICAL CERAMICSS  
QUANTUM ELECTRONICS 37(1), 27-28 (2007)
201. BASIEV, TT; GAVRILOV, AV; OSIKO, VV; SMETANIN, SN; FEDIN, AV.  
LASER BROACHING OF EXTREMELY DEEP MICRON HOLES IN VARIOUS MATERIALS  
WITH A PROGRAMMABLE CONTROL OF LASER RADIATION PARAMETERS  
QUANTUM ELECTRONICS 37(1), 99-102 (2007)
202. FEDOROV, P P; OSIKO, V V; BASIEV, T T; ORLOVSKII, YU V; DYKEL'SKII, K V;  
MIRONOV, I A; DEMIDENKO, V A; SMIRNOV, A N.  
OPTICAL FLUORIDE AND OXYSULPHIDE CERAMICS: PREPARATION AND  
CHARACTERIZATION  
PUBLISHER: NOVA SCIENCE PUBLISHERS INC. , 53 (2007)
203. BASIEV, TT; FEDIN, AV; GAVRILOV, AV; OSIKO, VV; SMETANIN, SN.  
LASING OF A PHASE-LOCKED THREE-CHANNEL LASER SYSTEM BASED ON  
OSCILLATORS WITH SELF-PHASE-CONJUGATE LOOP CAVITIES  
LASER OPTICS 2006: WAVEFRONT TRANSFORMATION AND LASER BEAM CONTROL  
6613, - (2007)
204. OSIKO, V V; BASIEV, T T; DOROSHENKO, M E; FEDOROV, P P; KONYUSHKIN, V  
A; KOUZNETSOV, S V.  
LIF: F2COLOR CENTER CERAMIC LASER MATERIAL  
CONFERENCE: 3RD LASER CERAMICS SYMPOSIUM: INTERNATIONAL SYMPOSIUM ON  
TRANSPARENT CERAMICS FOR PHOTONIC APPLICATIONS LOCATION: PARIS DATE: 8-  
10 OCTOBER, 2007 , (2007)
205. BASIEV, T. T.; DEMINDENKO, V. A.; DYKELSKII, K. V.; FEDOROV, P. P.;  
GOROKHOVA, E. I.; MIRONOV, I. A.; ORLOVSKII, Y. V.; OSIKO, V. V.; SMIRNOV, A. N.;  
ROSSLERE, D..  
OPTICAL FLUORIDE AND OXYSULFIDE CERAMICS: PREPARATION AND  
CHARACTERIZATION  
DEVELOPMENTS IN CERAMIC MATERIALS RESEARCH , 53 (2007)
206. SULC, J.; JELINKOVA, H.; BASIEV, T.T.; DOROSHENKO, M.E.; IVLEVA, L.I.;  
OSIKO, V.V.; ZVEREV, P.G..  
EYE-SAFE ND:SRMOO<sub>4</sub> RAMAN LASER  
CONFERENCE: CLEO/EUROPE - IQEC 2007. EUROPEAN CONFERENCE ON LASERS AND  
ELECTRO-OPTICS AND THE INTERNATIONAL QUANTUM ELECTRONICS  
CONFERENCE LOCATION: MUNICH, GERMANY DATE: 17-22 JUNE 2007 , (2007)
207. BARANCHIKOV, AE; IVANOV, VK; DMITRIEV, AV; TKACHENKO, EA; FEDOROV,  
PP; TRET'YAKOV, YD; OSIKO, VV.  
CHEMICAL TRANSFORMATIONS OF BASIC YTTRIUM NITRATES DURING ULTRASONIC-  
HYDROTHERMAL TREATMENT  
RUSSIAN JOURNAL OF INORGANIC CHEMISTRY 51(11), 1689-1695 (2006)
208. BABURIN, NV; GALAGAN, BI; DANILEIKO, YK; DENKER, BI; IVANOV, AD;  
LEBEDEVA, TP; MOLOCHKOV, AV; OSIKO, VV; SALYUK, VA; SVERCHKOV, SE; CHIKOV,  
VA.  
ERBIUM 1.54-MU M LASER SURGICAL DEVICE FOR TRANSMYOCARDIAL LASER

- REVASCULARIZATION  
DOKLADY PHYSICS 51(10), 551-554 (2006)
209. MIKHAILOVA, GN; OSIKO, VV.  
AN ALL-AROUND SCHOLAR - AN ATTEMPT AT A COAUTHORED PORTRAIT - ON THE  
90TH ANNIVERSARY OF THE BIRTH OF ACADEMICIAN A. M. PROKHOROV  
HERALD OF THE RUSSIAN ACADEMY OF SCIENCES 76(5), 480-491 (2006)
210. BASIEV, TT; DOROSHENKO, ME; IVLEVA, LI; OSIKO, VV; KOSMYNA, MB;  
KOMAR, VK; SULC, J; JELINKOVA, H.  
LASING PROPERTIES OF SELECTIVELY PUMPED RAMAN-ACTIVE ND<sup>3+</sup>-DOPED  
MOLYBDATE AND TUNGSTATE CRYSTALS  
QUANTUM ELECTRONICS 36(8), 720-726 (2006)
211. BASIEV, TT; ORLOVSKII, YV; POLYACHENKOVA, MV; FEDOROV, PP;  
KUZNETSOV, SV; KONYUSHKIN, VA; OSIKO, VV; ALIMOV, OK; DERGACHEV, AY.  
CONTINUOUSLY TUNABLE EW LASING NEAR 2.75 MU M IN DIODE-PUMPED ER<sup>3+</sup>:  
SRF<sub>2</sub> AND ER<sup>3+</sup>: CAF<sub>2</sub> CRYSTALS  
QUANTUM ELECTRONICS 36(7), 591-594 (2006)
212. GALAGAN, BI; DENKER, BI; OSIKO, VV; SVERCHKOV, SE.  
SPECTRAL AND KINETIC PROPERTIES OF ER<sup>3+</sup>, YB<sup>3+</sup> : YB<sub>3</sub>AL<sub>5</sub>O<sub>12</sub> CRYSTALS AT HIGH  
TEMPERATURES  
QUANTUM ELECTRONICS 36(7), 595-600 (2006)
213. VORON'KO, YK; LOMONOVA, EE; OSIKO, VV; SOBOLOV, AA; USHAKOV, SN;  
SHUKSHIN, VE.  
ACTIVE LASER MEDIA BASED ON FIANITE CRYSTALS  
QUANTUM ELECTRONICS 36(7), 601-608 (2006)
214. DANILEILKO, YK; DENKER, BI; OSIKO, VV; SVERCHKOV, SE; CHIKOV, VA.  
1.54-MU M LASER BASED ON ERBIUM PHOSPHATE GLASS IN THE VISCOELASTIC  
STATE  
DOKLADY PHYSICS 51(4), 186-188 (2006)
215. BUFETOV, IA; SEMENOV, SL; KOSOLAPOV, AF; MEL'KUMOV, MA; DUDIN, VV;  
GALAGAN, BI; DENKER, BI; OSIKO, VV; SVERCHKOV, SE; DIANOV, EM.  
YTTERBIUM FIBRE LASER WITH A HEAVILY YB<sup>3+</sup>-DOPED GLASS FIBRE CORE  
QUANTUM ELECTRONICS 36(3), 189-191 (2006)
216. BASIEV, TT; BASIEVA, MN; DOROSHENKO, ME; FEDOROV, VV; OSIKO, VV;  
MIROV, SB.  
STIMULATED RAMAN SCATTERING IN MID IR SPECTRAL RANGE 2.31-2.75-3.7 MU M  
IN BAWO<sub>4</sub> CRYSTAL UNDER 1.9 AND 1.56 MU M PUMPING  
LASER PHYSICS LETTERS 3(1), 17-20 (2006)
217. BASIEV, TT; VASSILIEV, SV; DOROSHENKO, ME; OSIKO, VV; PUZIKOV, VM;  
KOSMYNA, MB.  
LASER AND SELF-RAMAN-LASER OSCILLATIONS OF PBMOO<sub>4</sub> : ND<sup>3+</sup> CRYSTAL UNDER  
LASER DIODE PUMPING  
OPTICS LETTERS 31(1), 65-67 (2006)
218. BASIEV, TT; OSIKO, VV.  
NEW MATERIALS FOR SRS LASERS  
USPEKHI KHIMII 75(10), 939-955 (2006)
219. KUZNETSOV, SV; OSIKO, VV; TKATCHENKO, EA; FEDOROV, PP.  
INORGANIC NANOFLUORIDES AND NANOCOMPOSITES BASED ON THEM  
USPEKHI KHIMII 75(12), 1193-1211 (2006)



220. BASIEV, T T; BOLYASNIKOVA, L S; DEMIDENKO, V A; FEDOROV, P P;  
KOUZNETSOV, S V; MIRONOV, I A; OVSYANNIKOVA, O P; OSIKO, V V; AKCHURIN, M  
SH.  
FLUORIDE NANOCERAMICS  
CONFERENCE: NATIONAL RUSSIAN CONFERENCE ON CRYSTAL GROWTH  
12 LOCATION: MOSCOW DATE: OCTOBER 23-27, 2006 , (2006)
221. FEDOROV, P P; OSIKO, V V; BASIEV, T T; ET AL..  
RUSSIAN STATE CONTRACT NO 02.435.11.2011 DEVELOPMENT OF TECHNOLOGY  
FOR NANOCERAMICS WITH LOW OPTICAL LOSSES ON THE BASIS OF METAL  
FLUORIDES DOPED WITH RARE-EARTH ELEMENTS  
REPORT NO 4 , (2006)
222. YAROTZKAY, I V; FEDOROV, P P; TKATCHENKO, E A; OSIKO, V V; VORONOV, V  
V; LAVRISTCHEV, S V; BASIEV, T T; KOUZNETSOV, S V.  
PREPARATION OF NANOPARTICLES OF  $M1-XRxF_2+x$  FROM WATER SOLUTIONS  
CONFERENCE: PROCEEDINGS OF ISIF-2006, SECOND INTERNATIONAL X SIBERIAN  
WORKSHOP INTERSIBFLUORINE-'ADVANCED INORGANIC FLUORIDES' LOCATION:  
TOMSK DATE: 11-16 JUNE, 2006 , 124 (2006)
223. SULC, J; JELINKOVA, H; BASIEV, TT; DOROSHENKO, ME; IVLEVA, LI; OSIKO,  
VV; ZVEREV, PG.  
LASING PROPERTIES OF NEW  $ND_3^{3+}$ -DOPED TUNGSTATE, MOLYBDATE, AND  
FLUORIDE MATERIALS UNDER SELECTIVE OPTICAL PUMPING  
SOLID STATE LASERS XV: TECHNOLOGY AND DEVICES 6100, - (2006)
224. FROLOV, K.V.; OSIKO, V.V.; ALISIN, V.V.; ET AL..  
RESEARCH OF MECHANICAL AND TRIBOLOGICAL PROPERTIES OF NANOCRYSTAL  
MATERIAL OF NEW GENERATION ON THE BASE OF ZIRCONIUM DIOXIDE  
PROBLEMY MASHINOSTROENIYA I NADEZHNOСТИ MASHIN (4), 3 (2006)
225. KUZNETSOV, S. V.; OSIKO, V. V.; TKATCHENKO, E. A.; FEDOROV, P. P..  
INORGANIC NANOFLUORIDES AND RELATED NANOCOMPOSITES  
RUSS. CHEM. REV. 75(12), 1065 (2006)
226. ALISIN, VV; BORIK, MA; LOMONOVA, EE; MELSHANOV, AF; MOSKVITIN, GV;  
OSIKO, VV; PANOV, VA; PAVLOV, VG; PORODINKOV, OE; VISHNYAKOVA, MA.  
ZIRCONIA-BASED NANOCRYSTALLINE MATERIAL SYNTHESIZED BY DIRECTIONAL  
CRYSTALLIZATION FROM THE MELT  
MATERIALS SCIENCE & ENGINEERING C-BIOMIMETIC AND SUPRAMOLECULAR  
SYSTEMS 25(5-8), 577-583 (2005)
227. BASIEV, TT; BATYREV, NI; VORONOV, VV; KONYUSHKIN, VA; KUZNETSOV, SV;  
OSIKO, VV; SAMARTSEV, AM; SAMOILOVA, EB; FEDOROV, PP.  
HYDRATION OF STRONTIUM CHLORIDE AND RARE-EARTH ELEMENT OXYCHLORIDES  
RUSSIAN JOURNAL OF APPLIED CHEMISTRY 78(7), 1035-1037 (2005)
228. VINOGRADOVA, NN; GALAGAN, BI; DMITRUK, LN; MOISEEVA, LV; OSIKO, VV;  
SVIRIDOVA, EE; BREKHOVSKIKH, MN; FEDOROV, VA.  
GROWTH OF RARE-EARTH-DOPED  $K_2LaCl_5$ ,  $K_2BaCl_4$ , AND  $K_2SrCl_4$  SINGLE  
CRYSTALS  
INORGANIC MATERIALS 41(6), 654-657 (2005)
229. BASIEV, TT; DOROSHENKO, ME; OSIKO, VV; SVERCHKOV, SE; GALAGAN, BL.  
NEW MID IR (1.5-2.2  $\mu m$ ) RAMAN LASERS BASED ON BARIUM TUNGSTATE AND  
BARIUM NITRATE CRYSTALS  
LASER PHYSICS LETTERS 2(5), 237-238 (2005)

230. BASIEV, TT; KARASIK, AY; KONYUSHKIN, VA; OSIKO, VV; PAPASHVILI, AG; CHUNAEV, DS.  
AMPLIFICATION OF PICOSECOND PULSES IN F-2(-) : LIF CRYSTALS SYNCHRONOUSLY PUMPED BY PICOSECOND AND NANOSECOND LASER PULSES  
QUANTUM ELECTRONICS 35(4), 344-346 (2005)
231. BORIK, MA; LOMONOVA, EE; OSIKO, VV; PANOV, VA; PORODINKOV, OE; VISHNYAKOVA, MA; VORON'KO, YK; VORONOV, VV.  
PARTIALLY STABILIZED ZIRCONIA SINGLE CRYSTALS: GROWTH FROM THE MELT AND INVESTIGATION OF THE PROPERTIES  
JOURNAL OF CRYSTAL GROWTH 275(1-2), E2173-E2179 (2005)
232. OSIKO, V.V.; ALISIN, V.V.; VISHNYAKOVA, M.A.; IGNATIEVA, Z.V.; LOMONOVA, E.E.; PAVLOV, V.G..  
INVESTIGATION OF TRIBOLOGICAL PROPERTIES OF ZIRCONIUM DIOXIDE-BASED NANOCRYSTALLINE MATERIALS OF A NEW GENERATION  
TRENIE I IZNOS 26(3), 285 (2005)
233. BASIEV, T T; DOROSHENKO, M E; OSIKO, V V; BADIKOV, D V; DENMAN, C.; SOROKINA, I..  
MID IR LASER OSCILLATIONS IN NEW LOW PHONON PBGA2S4: DY3+CRYSTAL PUBLISHER: OPTICAL SOCIETY OF AMERICA 98, 75 (2005)
234. BORIK, M.A.; LOMONOVA, E.E.; OSIKO, V. V.; PANOV, V.A.; ET AL..  
PARTIALLY STABILIZED ZIRCONIA SINGLE CRYSTALS: GROWTH FROM THE MELT AND INVESTIGATION OF THE PROPERTIES  
J. CRYST. GROWTH 275, 2173 (2005)
235. FEDOROV, PP; OSIKO, VV.  
CRYSTAL GROWTH OF FLUORIDES  
BULK CRYSTAL GROWTH OF ELECTRONIC, OPTICAL & OPTOELECTRONIC MATERIALS , 339-355 (2005)
236. DENKER, B; GALAGAN, B; IVLEVA, L; OSIKO, V; SVERCHKOV, S; VORONINA, I; HELLSTROM, JE; KARLSSON, G; LAURELL, F.  
LUMINESCENT AND LASER PROPERTIES OF YB-ER : GDCA4O(BO3)(3): A NEW CRYSTAL FOR EYE-SAFE 1.5-MU M LASERS  
APPLIED PHYSICS B-LASERS AND OPTICS 79(5), 577-581 (2004)
237. IVLEVA, LI; LYKOV, PA; POLOZKOV, NM; OSIKO, VV; VOLK, TR.  
PHOTOREFRACTIVE PROPERTIES OF CR-, CO-, AND NI-DOPED SBN CRYSTALS  
LASER PHYSICS 14(9), 1222-1226 (2004)
238. BASIEV, TT; DANILEIKO, YK; DOROSHENKO, ME; FEDIN, AV; GAVRILOV, AV; OSIKO, VV; SMETANIN, SN.  
HIGH-ENERGY BAWO4 RAMAN LASER PUMPED BY A SELF-PHASE-CONJUGATE ND : GGG LASER  
LASER PHYSICS 14(7), 917-921 (2004)
239. BASIEV, TT; GAVRILOV, AV; OSIKO, VV; SMETANIN, SN; FEDIN, AV.  
HIGH-AVERAGE-POWER SRS CONVERSION OF RADIATION IN A BAWO4 CRYSTAL  
QUANTUM ELECTRONICS 34(7), 649-651 (2004)
240. BASIEV, TT; VASSILIEV, SV; KONJUSHKIN, VA; OSIKO, VV; ZAGUMENNYI, AI; ZAVARTSEV, YD; KUTOVOI, SA; SHCHERBAKOV, IA.  
DIODE PUMPED 500-PICOSECOND ND : GDVO4 RAMAN LASER  
LASER PHYSICS LETTERS 1(5), 237-240 (2004)
241. BASIEV, TT; DANILEIKO, YK; DMITRUK, LN; GALAGAN, BI; MOISEEVA, LV;

- OSIKO, VV; SVIRIDOVA, EE; VINOGRADOVA, NN.  
THE PURIFICATION, CRYSTAL GROWTH, AND SPECTRAL-LUMINESCENT PROPERTIES  
OF PBCL<sub>2</sub> : RE  
OPTICAL MATERIALS 25(3), 295-299 (2004)
242. BASIEV, TT; ZVEREV, PG; KARASIK, AY; OSIKO, VV; SOBOL', AA; CHUNAEV, DS.  
PICOSECOND STIMULATED RAMAN SCATTERING IN CRYSTALS  
JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS 99(5), 934-941 (2004)
243. GRAHAM, K; FEDOROV, VV; MIROV, SB; DOROSHENKO, ME; BASIEV, TT;  
ORLOVSKII, YV; OSIKO, VV; BADIKOV, VV; PANYUTIN, VL.  
PULSED MID-IR CR<sup>2+</sup> : ZNS AND CR<sup>2+</sup> : ZNSE LASERS PUMPED BY RAMAN-SHIFTED Q-  
SWITCHED NEODYMIUM LASERS  
QUANTUM ELECTRONICS 34(1), 8-14 (2004)
244. KONOV, VI; OSIKO, VV; SHCHERBAKOV, IA.  
FUNDAMENTAL ACHIEVEMENTS IN OPTICS AND LASER PHYSICS FOR MEDICINE  
HERALD OF THE RUSSIAN ACADEMY OF SCIENCES 74(1), 25-37 (2004)
245. BASIEV, T. T.; DANILEIKO, Y. K.; DOROSHENKO, M. E.; OSIKO, V. V.; FEDIN, A.  
V.; GAVRILOV, A. V.; SMETANIN, S. N..  
POWERFUL BAWO<sub>4</sub>RAMAN LASER PUMPED BY SELF-PHASE-CONJUGATED ND: YAG  
AND ND: GGG LASERS  
CONFERENCE: TECH. DIG. ADV. SOLID STATE PHOTON. CONF. , (2004)
246. BASIEV, TT; VASSILIEV, SV; DOROSHENKO, ME; OSIKO, VV; PUZIKOV, VM;  
KOSMYNA, MB.  
LASER AND SELF-RAMAN-LASER OSCILLATIONS OF PBM<sub>04</sub>:ND<sub>3</sub>+CRYSTAL UNDER  
LASER DIODE PUMPING  
OPTICS LETTERS 31(1), 65 (2004)
247. ZVEREV, P.G.; KARASIK, A.Y.; SOBOL, A.A.; CHUNAEV, D.S.; BASIEV, T.T.;  
ZAGUMENNYI, A.L.; ZAVARTSEV, Y.D.; KUTOVOI, S.A.; OSIKO, V.V.; SHCHERBAKOV,  
I.A..  
STIMULATED RAMAN SCATTERING OF PICOSECOND PULSES IN GDVO<sub>4</sub> AND YVO<sub>4</sub>  
CRYSTALS  
ADV. SOLID-STATE PHOTON. , (2004)
248. BUFETOVA, GA; IVLEVA, LI; NIKOLAEV, DA; OSIKO, VV; POLOZKOV, NM;  
SEREGIN, VF; SHCHERBAKOV, IA; TSVETKOV, VB.  
EXPERIMENTAL MEASUREMENTS OF THE SPECTRAL, AMPLITUDE, AND TEMPORAL  
CHARACTERISTICS OF THE DYNAMIC HOLOGRAPHIC GRATINGS FORMED IN  
STRONTIUM-BARIUM NIOBATE CRYSTAL  
LASER PHYSICS 13(10), 1305-1307 (2003)
249. BASIEV, TT; FEDIN, AV; GAVRILOV, AV; OSIKO, VV; SMETANIN, SN.  
SRS TRANSFORMATION OF THE RADIATION OF A SELF-PUMPED PHASE-CONJUGATE  
LASER  
LASER PHYSICS 13(8), 1013-1016 (2003)
250. BASIEV, TT; GAVRILOV, A; OSIKO, VV; SMETANIN, SN; FEDIN, A.  
PHASE LOCKING OF OPTICALLY COUPLED LASERS BY GAIN GRATINGS IN AN ACTIVE  
MEDIUM  
QUANTUM ELECTRONICS 33(8), 659-670 (2003)
251. BASIEV, TT; FEDIN, AV; OSIKO, VV; SMETANIN, SN.  
ON THE INFLUENCE OF REFLECTIVE GAIN HOLOGRAMS ON THE DYNAMICS OF  
LASING IN A LOOP LASER CAVITY

- LASER PHYSICS 13(7), 903-908 (2003)
252. IVLEVA, LI; BASIEV, TT; VORONINA, IS; ZVEREV, PG; OSIKO, VV; POLOZKOV, NM.  
SRWO4 : ND3+ - NEW MATERIAL FOR MULTIFUNCTIONAL LASERS  
OPTICAL MATERIALS 23(1-2), 439-442 (2003)
253. ZVEREV, PG; KARASIK, AY; BASIEV, TT; IVLEVA, LI; OSIKO, VV.  
STIMULATED RAMAN SCATTERING OF PICOSECOND PULSES IN SRMOO4 AND CA-3(VO4)(2) CRYSTALS  
QUANTUM ELECTRONICS 33(4), 331-334 (2003)
254. IVLEVA, LI; BOGODAEV, NV; LYKOV, PA; OSIKO, VV; POLOZKOV, NM; VOLK, TR.  
TWO- AND FOUR-WAVE MIXING IN SBN : NI CRYSTALS  
LASER PHYSICS 13(2), 251-254 (2003)
255. BASIEV, TT; OSIKO, VV; PROKHOROV, AM; DIANOV, EM.  
CRYSTALLINE AND FIBER RAMAN LASERS  
SOLID-STATE MID-INFRARED LASER SOURCES 89, 351-396 (2003)
256. LOMONOVA, EE; OSIKO, VV; DHANARAJ, G; BYRAPPA, K; PRASAD, V; DUDLEY, M.  
GROWTH OF ZIRCONIA CRYSTALS BY SKULL-MELTING TECHNIQUE  
PUBLISHER: SPRINGER-VERLAG BERLIN HEIDELBERG, BERLIN , 461 (2003)
257. VORONINA, IS; IVLEVA, LI; OSIKO, VV; POLOZKOV, NM.  
GROWTH OF BARIUM TUAGSTATE CRYSTALS  
SOLID STATE CRYSTALS 2002: CRYSTALLINE MATERIALS FOR OPTOELECTRONICS 5136, 10-14 (2003)
258. BASIEV, TT; DOROSHENKO, ME; OSIKO, VV; PUZIKOV, VM; KOMAR, VK; GRINYOV, B; KOSMYNA, MB.  
NEW MID IR (1.5-2.2 MU M) RAMAN LASERS BASED ON BARIUM TUNGSTATE AND BARIUM NITRATE CRYSTALS FOR PUMPING OF PULSED MID MID IR (2.5-2.7 MU M) TUNABLE ZNSE : CR2+ AND CDSE : CR2+ LASERS.  
CAOL '2003: PROCEEDINGS OF THE 1ST INTERNATIONAL CONFERENCE ON ADVANCED OPTOELECTRONICS AND LASERS, VOL 1 , 122-125 (2003)
259. BASIEV, TT; DANILEIKO, YK; DOROSHENKO, ME; FEDIN, AV; GAVRILOV, AV; OSIKO, VV; SMETANIN, SN.  
HIGH-ENERGY BAWO4 RAMAN LASER PUMPED BY A SELF-PHASE-CONJUGATED ND : GGG LASER  
LASER OPTICS 2003: WAVEFRONT TRANSFORMATION AND LASER BEAM CONTROL 5481, 23-26 (2003)
260. DENKER, B; GALAGAN, B; OSIKO, V; SVERCHKOV, S.  
ACTIVE AND PASSIVE MATERIALS FOR MINIATURE DIODE-PUMPED 1.5 MU M ERBIUM GLASS LASERS.  
LFNM 2003: LASER AND FIBER-OPTICAL NETWORKS MODELING, PROCEEDINGS , 243-244 (2003)
261. BASIEV, TT; ORLOVSKII, YV; VOROB'EV, IN; DMITRUK, LN; EFIMENKO, TD; KONYUSHKIN, VA; OSIKO, VV.  
RELAXATION OF MID-IR TRANSITIONS OF ND3+ IN LASER CRYSTALS WITH "SHORT" PHONON SPECTRA  
PHYSICS OF LASER CRYSTALS 126, 51-61 (2003)
262. BASIEV, T.T.; DOROSHENKO, M.E.; OSIKO, V.V.; PUZIKOV, V.M.; KOMAR, V.K.;

- GRINYOV, B.; KOSMYNA, M.B..  
NEW MID IR (1.5-2.2 MUM) RAMAN LASERS BASED ON BARIUM TUNGSTATE AND BARIUM NITRATE CRYSTALS FOR PUMPING OF PULSED MID IR (2.5-2.7 MUM) TUNABLE ZNSE:CR<sup>2+</sup> AND CDSE:CR<sup>2+</sup> LASERS  
CONFERENCE: PROCEEDINGS OF CAOL'03. 1ST INTERNATIONAL CONFERENCE ON ADVANCED OPTOELECTRONICS AND LASERS. JOINTLY WITH 1ST WORKSHOP ON PRECISION OSCILLATIONS IN ELECTRONICS AND OPTICS LOCATION: ALUSHTA, CRIMEA, UKRAINE DATE: 16-20 SEPT. 2003 SPONSOR(S): PART: VOL.1, 122 (2003)
263. DENKER, B.; GALAGAN, B.; OSIKO, V.; SVERCHKOV, S.; KARLSSON, G.; LAURELL, F; PASISKEVICHUS, V.; TELLEFSEN, J..  
PASSIVELY Q-SWITCHED 1.54 MM YB-ER GLASS MICROCHIP LASERS  
CONFERENCE: SYMPOSIUM ON MICROLASERS, CLEO/EUROPE-EQEC 2003 , (2003)
264. ORLOVSKII, YV; BASIEV, TT; PAPASHVILI, AG; VOROB'EV, IN; ALIMOV, OK; OSIKO, VV; HEBER, J.  
INHOMOGENEOUS BROADENING OF THE DYNAMICALLY SPLIT KRAMERS SPECTRAL LINE AND UP-CONVERSION IN THE PAIR AND QUARTET CENTERS IN CAF<sub>2</sub> : ND<sup>3+</sup>  
JOURNAL OF LUMINESCENCE 99(3), 223-236 (2002)
265. BUZYNIN, AN; OSIKO, VV; VORONKO, YK; LOMONOVA, EE; LUK'YANOV, AE; BUZYNIN, YN; DANILTSEV, VM; DROZDOV, YN; KHRYKIN, OI; MUREL, AV.  
EPITAXIAL STRUCTURES OF A(III)B(V) MATERIALS ON FIANITE  
IZVESTIYA AKADEMII NAUK SERIYA FIZICHESKAYA 66(9), 1345-1350 (2002)
266. KARLSSON, G; LAURELL, F; TELLEFSEN, J; DENKER, B; GALAGAN, B; OSIKO, V; SVERCHKOV, S.  
DEVELOPMENT AND CHARACTERIZATION OF YB-ER LASER GLASS FOR HIGH AVERAGE POWER LASER DIODE PUMPING  
APPLIED PHYSICS B-LASERS AND OPTICS 75(1), 41-46 (2002)
267. ALFEROV, ZI; ANDREEV, AF; BOYARCHUK, AA; BUNKIN, FV; DIANOV, EM; KARLOV, NV; KONOVA, VI; MESYATS, GA; OSIKO, VV; PASHININ, PP; FORTOV, VE; SHCHERBAKOV, IA.  
IN MEMORY OF ALEKSANDR MIKHAILOVICH PROKHOROV  
PHYSICS-USPEKHI 45(7), 781-782 (2002)
268. BASIEV, TT; ORLOVSKII, YV; GALAGAN, BI; DOROSHENKO, ME; VOROB'EV, IN; DMITRUK, LN; PAPASHVILI, AG; SKVORTSOV, VN; KONYUSHKIN, VA; PUKHOV, KK; ERMAKOV, GA; OSIKO, VV; PROKHOROV, AM; SMITH, S.  
EVALUATION OF RARE-EARTH DOPED CRYSTALS AND GLASSES FOR 4-5-MUM LASING  
LASER PHYSICS 12(5), 859-877 (2002)
269. DENKER, BI; GALAGAN, BI; OSIKO, VV; SVERCHKOV, SE.  
MATERIALS AND COMPONENTS FOR MINIATURE DIODE-PUMPED 1.5 MUM ERBIUM GLASS LASERS  
LASER PHYSICS 12(4), 697-701 (2002)
270. IVLEVA, LI; BOGODAEV, NV; LYKOV, PA; OSIKO, VV; POLOZKOV, NM.  
PHASE CONJUGATION IN SBN CRYSTALS  
LASER PHYSICS 12(4), 702-706 (2002)
271. BASIEV, TT; ZHARIKOV, EV; OSIKO, VV.  
CRYSTALS FOR PHOTONICS  
CRYSTALLOGRAPHY REPORTS 47, S15-S26 (2002)
272. BUZYNIN, AN; LUK'YANOV, AE; OSIKO, VV; VORONKOV, VV.

- NON-EQUILIBRIUM IMPURITY REDISTRIBUTION IN SI  
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM  
INTERACTIONS WITH MATERIALS AND ATOMS 186, 366-370 (2002)
273. ZVEREV, PG; BASIEV, TT; IVLEVA, LI; OSIKO, VV; POLOZKOV, NM; VORONINA, IS.  
RAMAN LASER ON STRONTIUM TUNGSTATE CRYSTAL  
ADVANCED SOLID-STATE LASERS, PROCEEDINGS 68, 70-73 (2002)
274. DENKER, B.; OSIKO, V.; GALAGAN, B.; SVERCHKOV, S.; KARLSSON, G.; LAURELL, F.; TELLEFSEN, J..  
YB- ER LASER GLASS FOR HIGH AVERAGE POWER DIODE- PUMPED 1. 54 \ TEXTMUM LASERS  
ADVANCED SOLID- STATE LASERS , (2002)
275. DENKER, B; GALAGAN, B; OSIKO, V; SVERCHKOV, S; KARLSSON, G; LAURELL, F; TELLEFSEN, J.  
YB-ER LASER GLASS FOR HIGH AVERAGE POWER DIODE - PUMPED 1.54 MU M LASERS.  
ADVANCED SOLID-STATE LASERS, PROCEEDINGS 68, 232-235 (2002)
276. ORLOVSKII, YV; BASIEV, TT; PAPASHVILI, AG; VOROB'EV, IN; ALIMOV, OK; OSIKO, VV; HEBER, J.  
INHOMOGENEOUS BROADENING OF THE DYNAMICALLY SPLIT KRAMERS SPECTRAL LINE AND UP-CONVERSION IN THE PAIR AND QUARTET CENTERS IN  $\text{CaF}_2 : \text{Nd}^{3+}$   
XI FEOFILOV SYMPOSIUM ON SPECTROSCOPY OF CRYSTALS ACTIVATED BY RARE-EARTH AND TRANSITION METAL IONS 4766, 204-217 (2002)
277. BASIEV, TT; BASIEVA, IT; DOROSHENKO, ME; OSIKO, VV; PROKHOROV, AM; PUKHOV, KK.  
COOPERATIVE QUENCHING: EXPERIMENT, THEORY AND MONTE-CARLO COMPUTER SIMULATION  
JOURNAL OF LUMINESCENCE 94, 349-354 (2001)
278. ORLOVSKII, YV; BASIEV, TT; PUKHOV, KK; VOROBIEV, IN; PAPASHVILI, AG; PELLE, F; OSIKO, VV.  
MULTIPHONON RELAXATION OF MID-IR TRANSITIONS OF RARE-EARTH IONS IN THE CRYSTALS WITH FLUORITE STRUCTURE  
JOURNAL OF LUMINESCENCE 94, 791-795 (2001)
279. VOLK, T; IVLEVA, L; LYKOV, P; ISAKOV, D; OSIKO, V; WOHLECKE, M.  
MODIFICATION OF THE OPTICAL AND PHOTOREFRACTIVE PROPERTIES OF CE-DOPED STRONTIUM-BARIUM NIOBATE BY CO-DOPING WITH A NONPHOTOREFRACTIVE LA IMPURITY  
APPLIED PHYSICS LETTERS 79(6), 854-856 (2001)
280. BASIEV, TT; FEDIN, AV; OSIKO, VV; RULEV, AV.  
EFFICIENT ND : GGG LASER WITH SELF-PHASE CONJUGATION  
LASER PHYSICS 11(7), 807-809 (2001)
281. IVLEVA, L; VOLK, T; LYKOV, P; POLOZKOV, N; BOGODAEV, N; OSIKO, V.  
FERROELECTRICITY-DRIVEN OPTICAL AND PHOTOREFRACTIVE PROPERTIES OF STRONTIUM-BARIUM NIOBATE CRYSTALS  
LASER PHYSICS 11(4), 511-514 (2001)
282. BASIEV, TT; DOROSHENKO, ME; OSIKO, VV; PROKHOROV, AM.  
HIGHLY EFFICIENT COOPERATIVE ENERGY TRANSFER FROM  $\text{Ho}^{3+}$  AND  $\text{Tm}^{3+}$  IONS TO  $\text{Ce}^{3+}$  IONS IN CRYSTALS

- JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS 93(6), 1178-1183 (2001)
283. VLADIMIROV, SV; KAFTANOV, VS; NILOV, AF; SEMENOV, YA; SMOLYANKIN, VT; USHAKOV, VI; GORONKOV, OA; ZVONAREV, EN; KOZLOV, OI; MASHIREV, VP; SHATALOV, VV; BASIEV, TT; KONYUSHKIN, VA; OSIKO, VV; PAPASHVILI, AG; SKVORTSOV, VN.  
CHARACTERISTICS OF BAF<sub>2</sub> SCINTILLATION CRYSTALS  
ATOMIC ENERGY 90(1), 55-62 (2001)
284. BASIEV, TT; DOROSHENKO, ME; OSIKO, VV; KONYUSHKIN, VA; SKVORTSOV, VN; PAPASHVILI, AG; PUKHOV, KK; HAGER, G; SMITH, S.  
COOPERATIVE ENERGY TRANSFER, DOWNCONVERSION AND SENSITIZATION OF CE<sup>3+</sup> 4-5 μm LASER TRANSITION  
ADVANCED SOLID-STATE LASERS, PROCEEDINGS 50, 166-169 (2001)
285. DENKER, B; GALAGAN, B; OSIKO, V; SVERCHKOV, S.  
PECULIARITIES OF ENERGY STORAGE AND RELAXATION IN YB-ER LASER GLASSES WITH ENHANCED ER CONTENT  
ADVANCED SOLID-STATE LASERS, PROCEEDINGS 50, 598-602 (2001)
286. KARLSSON, G; PASISKEVICIUS, V; LAURELL, F; TELLEFSEN, JA; DENKER, B; GALAGAN, B; OSIKO, V; SVERCHKOV, S.  
CO<sub>2</sub><sup>+</sup>: MGAL<sub>2</sub>O<sub>4</sub> CRYSTAL AS SATURABLE ABSORBER IN DIODE-PUMPED Q-SWITCHED ER-YB : GLASS LASER  
ADVANCED SOLID-STATE LASERS, PROCEEDINGS 50, 72-76 (2001)
287. KARLSSON, G; PASISKEVICIUS, V; LAURELL, F; TELLEFSEN, JA; DENKER, B; GALAGAN, BI; OSIKO, VV; SVERCHKOV, S.  
DIODE-PUMPED ER-YB : GLASS LASER PASSIVELY Q SWITCHED BY USE OF CO<sub>2</sub><sup>+</sup>: MGAL<sub>2</sub>O<sub>4</sub> AS A SATURABLE ABSORBER  
APPLIED OPTICS 39(33), 6188-6192 (2000)
288. BASIEV, TT; FEDIN, AV; RULEV, AV; OSIKO, VV.  
IMPROVING THE EASING EFFICIENCY OF A ND : GLASS LASER WITH A DYNAMIC CAVITY  
LASER PHYSICS 10(4), 853-856 (2000)
289. GURSKII, IE; KAFTANOV, VS; NILOV, AF; SEMENOV, YA; SMOLYANKIN, VT; USHAKOV, VI; BASIEV, TT; DOROSHENKO, ME; KONYUSHKIN, VA; OSIKO, VV; PAPASHVILI, AG; SIGACHEV, VB; SKVORTSOV, VN; ZVONAREV, EN; KOZLOV, OI; KOLEGOV, DF; MASHIREV, VP; SHATALOV, VV.  
A STUDY OF THE CHARACTERISTICS OF CEF<sub>3</sub> SCINTILLATING CRYSTALS  
INSTRUMENTS AND EXPERIMENTAL TECHNIQUES 43(1), 31-35 (2000)
290. BASIEV, TT; DOROSHENKO, ME; OSIKO, VV.  
COOPERATIVE NONRADIATIVE CROSS-RELAXATION IN CRYSTALS OF LA(1-X)CEXF<sub>3</sub> SOLID SOLUTIONS  
JETP LETTERS 71(1), 8-11 (2000)
291. GAGARSKII, SV; GALAGAN, BI; DENKER, BI; KORCHAGIN, AA; OSIKO, VV; PRIKHOD'KO, KV; SVERCHKOV, SE.  
DIODE-PUMPED YTTERBIUM-ERBIUM GLASS MICROLASERS WITH OPTICAL Q-SWITCHING BASED ON FRUSTRATED TOTAL INTERNAL REFLECTION  
QUANTUM ELECTRONICS 30(1), 10-12 (2000)
292. ZVEREV, PG; BASIEV, TT; SOBOL, AA; SKORNYAKOV, VV; IVLEVA, LI; POLOZKOV, NM; OSIKO, VV.  
STIMULATED RAMAN SCATTERING IN ALKALINE-EARTH TUNGSTATE CRYSTALS

- QUANTUM ELECTRONICS 30(1), 55-59 (2000)
293. BASIEV, TT; DOROSHENKO, ME; OSIKO, VV.  
COOPERATIVE QUENCHING ENERGY TRANSFER IN LA1-X, CEXF3 CRYSTAL  
ADVANCED SOLID STATE LASERS, PROCEEDINGS 34, 485-489 (2000)
294. CERNY, P; ZVEREV, PG; JELINKOVA, H; BASIEV, TT; IVLEVA, LI; OSIKO, VV.  
COMPARISON OF STIMULATED RAMAN SCATTERING OF PICOSECOND PULSES IN  
TUNGSTATE CRYSTALS  
NONLINEAR MATERIALS DEVICES, AND APPLICATIONS 3928, 124-131 (2000)
295. ZVEREV, PG; BASIEV, TT; DOROSHENKO, ME; OSIKO, VV.  
BARIUM TUNGSTATE RAMAN LASER - NEW COHERENT SOURCE FOR SODIUM STAR  
EXPERIMENTS  
ADVANCED SOLID STATE LASERS, PROCEEDINGS 34, 348-354 (2000)
296. DENKER, BI; GALAGAN, BI; OSIKO, VV; SVERCHKOV, SE.  
ERBIUM AND NEODYMIUM GLASS LASERS PASSIVELY Q-SWITCHED BY COBALT-  
ACTIVATED SPINEL CRYSTALS.  
ADVANCED SOLID STATE LASERS, PROCEEDINGS 34, 246-248 (2000)
297. ORLOVSKII, YV; BASIEV, TT; OSIKO, V; GROSS, H; HEBER, J.  
FLUORESCENCE LINE NARROWING (FLN) AND SITE-SELECTIVE FLUORESCENCE DECAY  
OF ND<sup>3+</sup> CENTERS IN CAF<sub>2</sub>  
JOURNAL OF LUMINESCENCE 82(3), 251-258 (1999)
298. BOGODAEV, NV; IVLEVA, LI; LYKOV, PA; POLOZKOV, NM; OSIKO, VV.  
PHOTOREFRACTIVE PROPERTIES OF COBALT-DOPED STRONTIUM BARIUM NIOBATE  
CRYSTALS  
QUANTUM ELECTRONICS 29(5), 449-453 (1999)
299. BASIEV, TT; SOBOL, AA; ZVEREV, PG; IVLEVA, LI; OSIKO, VV; POWELL, RC.  
RAMAN SPECTROSCOPY OF CRYSTALS FOR STIMULATED RAMAN SCATTERING  
OPTICAL MATERIALS 11(4), 307-314 (1999)
300. ZVEREV, PG; BASIEV, TT; OSIKO, VV; KULKOV, AM; VOITSEKHOVSKII, VN;  
YAKOBSON, VE.  
PHYSICAL, CHEMICAL AND OPTICAL PROPERTIES OF BARIUM NITRATE RAMAN  
CRYSTAL  
OPTICAL MATERIALS 11(4), 315-334 (1999)
301. GALAGAN, BI; GODOVIKOVA, EA; DENKER, BI; MEIL'MAN, ML; OSIKO, VV;  
SVERCHKOV, SE.  
EFFICIENT BLEACHABLE FILTER BASED ON CO<sub>2</sub><sup>+</sup>: MGAL<sub>2</sub>O<sub>4</sub> CRYSTALS FOR Q-  
SWITCHING OF LAMBDA=1.54 MU M ERBIUM GLASS LASER  
QUANTUM ELECTRONICS 29(3), 189-190 (1999)
302. SEVAST'YANOV, BK; OKHRIMCHUK, AG; NABATOV, VV; MARTYSHEV, YN;  
BASIEV, TT; DOROSHENKO, ME; OSIKO, VV; PAPASHVILI, AG.  
EXCITED-STATE ABSORPTION SPECTROSCOPY OF ND<sup>3+</sup>: SRF<sub>2</sub> CRYSTALS IN THE 1280-  
1320 NM SPECTRAL WAVELENGTH RANGE  
QUANTUM ELECTRONICS 29(2), 117-121 (1999)
303. BASIEV, TT; SOBOL, AA; ZVEREV, PG; OSIKO, VV; POWELL, RC.  
COMPARATIVE SPONTANEOUS RAMAN SPECTROSCOPY OF CRYSTALS FOR RAMAN  
LASERS  
APPLIED OPTICS 38(3), 594-598 (1999)
304. DENKER, B; GALAGAN, B; GODOVIKOVA, E; MEILMAN, M; OSIKO, V;  
SVERCHKOV, S; KERTESZ, I.



- THE EFFICIENT SATURABLE ABSORBER FOR 1.54  $\mu\text{m}$  ER GLASS LASERS.  
ADVANCED SOLID-STATE LASERS 26, 618-620 (1999)
305. BASIEV, TT; ORLOVSKII, YV; FEDOROV, VV; ALIMOV, OK; PANOV, VA;  
VOROB'EV, IN; ZVEREV, PG; OSIKO, VV; PROKHOROV, AM.  
LASER INDUCED FLUORESCENCE SPECTROMETER BASED ON SOLID STATE TUNABLE  
COLOR CENTER LASER FOR HEAVY METALS ANALYSIS.  
ENVIRONMENTAL MONITORING AND REMEDIATION TECHNOLOGIES 3534, 663-669  
(1999)
306. BASIEV, T.T.; SOBOL, A.A.; ZVEREV, P.G.; FEDOROV, V.V.; DOROSHENKO,  
M.E.; IVLEVA, L.I.; POLOZKOV, N.M.; OSIKO, V.V.; PROKHOROV, A.M.; HAGER, G.;  
CORCORAN, V.J.; GOLDMAN, T.A..  
RAMAN SPECTROSCOPY OF TUNGSTATE CRYSTALS FOR RAMAN LASERS  
CONFERENCE: PROCEEDINGS OF INTERNATIONAL CONFERENCE ON LASERS  
'98 LOCATION: TUCSON, AZ, USA DATE: 7-11 DEC. 1998 SPONSOR(S): SOC. OPT. &  
QUANTUM ELECTRON , 712 (1999)
307. BABURIN, NV; BOROZDOV, YV; DANILEIKO, YK; DENKER, BI; IVANOV, AD;  
IFFLANDER, R; KERTESZ, I; KROO, N; OSIKO, VV; SVERCHKOV, SE; SIDORIN, AV; HACK,  
R; CHIKOV, VA.  
Q-SWITCHING OF A HIGH-POWER SOLID-STATE LASER BY A FAST SCANNING FABRY-  
PEROT INTERFEROMETER  
QUANTUM ELECTRONICS 28(7), 616-619 (1998)
308. GALAGAN, BI; DANILEIKO, YK; DENKER, BI; OSIKO, VV; SVERCHKOV, SE.  
NATURE OF THE TEMPERATURE DEPENDENCE OF THE LASING EFFICIENCY OF  
ERBIUM LASER GLASSES AND THE MECHANISM OF THE INFLUENCE OF SENSITISERS  
ON THIS EFFICIENCY  
QUANTUM ELECTRONICS 28(4), 313-315 (1998)
309. BUZYNIN, AN; OSIKO, VV; BUZYNIN, YN; PUSHNYI, B.  
GROWTH ON GAN AND GAAS ON FIANITE BY MOCVD CAPILLARY EPITAXY  
TECHNIQUE  
MRS INTERNET JOURNAL OF NITRIDE SEMICONDUCTOR RESEARCH 3(49), ART. NO.-  
49 (1998)
310. BUZYNIN, AN; LUK'YANOV, AE; OSIKO, VV; VORONKOV, VV.  
FAST REDISTRIBUTION OF BORON IMPURITY IN SI DURING ION IRRADIATION  
DEFECT AND IMPURITY ENGINEERED SEMICONDUCTORS II 510, 281-286 (1998)
311. BUZYNIN, AN; OSIKO, VV; LOMONOVA, EE; BUZYNIN, YN; USIKOV, AS.  
EPITAXIAL FILMS OF GAAS AND GAN ON FIANIT SUBSTRATES  
WIDE-BANDGAP SEMICONDUCTORS FOR HIGH POWER, HIGH FREQUENCY AND HIGH  
TEMPERATURE 512, 417-422 (1998)
312. BASIEV, TT; ZVEREV, PG; PAPASHVILI, AG; KONYUSHKIN, VA; OSIKO, VV.  
QUASI-CONTINUOUS OPERATION OF AN LIF LASER WITH F-2(-) COLOUR CENTRES  
QUANTUM ELECTRONICS 27(9), 759-760 (1997)
313. BATANOV, GM; BOLOTOVSKII, BM; BUNKIN, FV; GERNSHTEIN, SS;  
GREBENSHCHIKOV, SE; DIANOV, EM; KOROBKIN, VV; KOSSYI, IA; OSIKO, VV;  
PASHININ, PP; PROKHOROV, AM; SOKOLOV, IV; FEDVANIN, OI; SHCHERBAKOV, IA;  
YURKIN, AV.  
GURGEN ASHOTOVICH ASKAR'YAN (1928-1997) - OBITUARY  
QUANTUM ELECTRONICS 27(5), 468-468 (1997)
314. ZVONAREV, EN; KOZLOV, OI; KOLEGOV, DF; MASHIREV, VP; SHATALOV, VV;

- BASIEV, TT; DOROSHENKO, ME; KONYUSHKIN, VA; OSIKO, VV; PAPASHVILI, AG;  
SIGACHEV, VB; GURSKII, IE; KAFTANOV, VS; SEMENOV, YA.  
SYNTHESIS OF CERIUM FLUORIDE SINGLE CRYSTALS: A PROMISING MATERIAL FOR  
IONIZING RADIATION DETECTORS  
ATOMIC ENERGY 82(4), 294-301 (1997)
315. UMYSKOV, AF; ZAVARTSEV, YD; ZAGUMENNYI, AI; OSIKO, VV; STUDENIKIN,  
PA.  
EFFICIENT 3-MUM YSGG:CR<sup>3+</sup>, YB<sup>3+</sup>, HO<sup>3+</sup> CRYSTAL LASER.  
KVANTOVAYA ELEKTRONIKA 23(9), 791-792 (1996)
316. ORLOVSKII, YV; BASIEV, TT; VOROBEV, IN; OSIKO, VV; PAPASHVILI, AG;  
PROKHOROV, AM.  
SITE-SELECTIVE MEASUREMENTS OF (4)G(5/2);(2)G(7/2) NONRADIATIVE  
RELAXATION RATE IN ND:SRF<sub>2</sub>, ND:LA:SRF<sub>2</sub>, AND ND:SR:LAF<sub>3</sub> LASER CRYSTALS  
LASER PHYSICS 6(3), 448-455 (1996)
317. ZAVARTSEV, YD; ZAGUMENNYI, AI; OSIKO, VV; STUDENIKIN, PA; UMYSKOV,  
AF.  
CRYSTALS OF CR<sup>3+</sup>:YB<sup>3+</sup>:LN(3+):YSGG AS ACTIVE MEDIA OF SOLID-STATE LASERS.  
KVANTOVAYA ELEKTRONIKA 23(5), 433-437 (1996)
318. GALAGAN, BI; DENKER, BI; DMITRUK, LN; MOTSAKTOV, VV; OSIKO, VV;  
SVERCHKOV, SE.  
GLASSES FOR PRASEODYMIUM LASER AMPLIFIERS SENSITISED WITH NEODYMIUM  
AND YTTERBIUM.  
KVANTOVAYA ELEKTRONIKA 23(2), 103-108 (1996)
319. GALAGAN, BI; DENKER, BI; MOTSAKTOV, VV; OSIKO, VV; SVERCHKOV, SE.  
ERBIUM-SENSITISED GLASSES FOR PRASEODYMIUM FIBRE LASER AMPLIFIERS  
OPERATING AT LAMBDA=1.3 MUM.  
KVANTOVAYA ELEKTRONIKA 23(2), 109-111 (1996)
320. ZAVARTSEV, YU.D.; ZAGUMENNYI, A.I.; OSIKO, V.V.; STUDENIKIN, P.A.;  
UMYSKOV, A.F..  
CRYSTALS OF CR<sup>3+</sup>:YB<sup>3+</sup>:LN<sub>3</sub>:YSGG AS ACTIVE MEDIA OF SOLID-STATE LASERS  
QUANTUM ELECTRONICS 26(5), 423 (1996)
321. UMYSKOV, A.F.; ZAVARTSEV, YU.D.; ZAGUMENNYI, A.I.; OSIKO, V.V.;  
STUDENIKIN, P.A..  
EFFICIENT 3-MUM CR<sup>3+</sup>:YB<sup>3+</sup>:HO<sup>3+</sup>:YSGG CRYSTAL LASER  
QUANTUM ELECTRONICS 26(9), 771 (1996)
322. GALAGAN, B.I.; DENKER, B.I.; DMITRUK, L.N.; MOTSAKTOV, V.V.; OSIKO, V.V.;  
SVERCHKOV, S.E..  
GLASSES FOR PRASEODYMIUM LASER AMPLIFIERS SENSITISED WITH NEODYMIUM  
AND YTTERBIUM  
QUANTUM ELECTRONICS 26(2), 99 (1996)
323. UMYSKOV, A.F.; ZAVARTSEV, YU.D.; ZAGUMENNYI, A.I.; OSIKO, V.V.;  
STUDENIKIN, P.A..  
CR<sup>3+</sup>:YB<sup>3+</sup>:HO<sup>3+</sup>:YSGG CRYSTAL LASER WITH A CONTINUOUSLY TUNABLE EMISSION  
WAVELENGTH IN THE RANGE 2.84-3.05 MUM  
QUANTUM ELECTRONICS 26(7), 563 (1996)
324. BASIEV, TT; FEDOROV, VV; KARASIK, AY; LINKOV, SI; ORLOVSKII, YV; OSIKO,  
VV; PANOVA, VA; PROKHOROV, AM; VOROBEV, IN; ZVEREV, PG.  
LASER INDUCED FLUORESCENCE SPECTROMETER BASED ON TUNABLE COLOR

- CENTER LASER FOR LOW IMPURITY SOLUTION DIAGNOSTIC AND ANALYSIS  
ALT '96 INTERNATIONAL SYMPOSIUM ON LASER METHODS FOR BIOMEDICAL  
APPLICATIONS 2965, 168-179 (1996)
325. KERTESZ, I; KROO, N; DANILEIKO, Y; DENKER, B; KORCHAGIN, A; OSIKO, V;  
PROKHOROV, A.  
OPTOELECTRONIC ELEMENT FOR THE CONTROL OF THE SPATIAL AND TIME  
BEHAVIOUR OF MEDICAL LASERS  
BIOMEDICAL OPTOELECTRONICS IN CLINICAL CHEMISTRY AND BIOTECHNOLOGY,  
PROCEEDINGS OF 2629, 288-290 (1996)
326. UMYSKOV, A F; ZAVARTSEV, YU D; ZAGUMENNYI, A I; OSIKO, V V;  
STUDENIKIN, P A.  
EFFECTIVE THREE MICRON LASER ON YSGG: CR<sup>3+</sup> YB<sup>3+</sup> HO<sup>3+</sup> CRYSTAL 1996 SOV  
J. QUANTUM ELECTRON. 26, 771 (1996)
327. IVLEVA, LI; BOGODAEV, NV; POLOZKOV, NM; OSIKO, VV.  
GROWTH OF SBN SINGLE-CRYSTALS BY STEPANOV TECHNIQUE FOR  
PHOTOREFRACTIVE APPLICATIONS  
OPTICAL MATERIALS 4(2-3), 168-173 (1995)
328. BASIEV, TT; SIGACHEV, VB; DOROSHENKO, ME; PAPASHVILI, AG; ZVEREV, PG;  
OSIKO, VV.  
PASSIVE Q-SWITCHING OF 1.3 MU M ND-LASERS WITH ND-2+SRF<sub>2</sub> AND V-3+YAG  
CRYSTALLINE SATURABLE ABSORBERS AND APPLICATION TO RAMAN SHIFTING TO  
EYE-SAFE REGION  
LASER METHODS OF SURFACE TREATMENT AND MODIFICATION, ALT 94  
INTERNATIONAL CONFERENCE 2498, 171-178 (1995)
329. BASIEV, TT; SIGACHEV, VB; DOROSHENKO, ME; PAPASHVILI, AG; OSIKO, VV.  
SPECTROSCOPIC AND LASER PROPERTIES OF ND-3+ DOPED FLUORIDE CRYSTALS IN  
1.3 MU M REGION  
LASER METHODS OF SURFACE TREATMENT AND MODIFICATION, ALT 94  
INTERNATIONAL CONFERENCE 2498, 179-192 (1995)
330. BUZYNIN, AN; LUKYANOV, AE; OSIKO, VV; VORONKOV, VV.  
INVERSION OF CONDUCTIVITY IN P-SI AFTER ION TREATMENT  
DEFECT AND IMPURITY ENGINEERED SEMICONDUCTORS AND DEVICES 378, 653-658  
(1995)
331. IVLEVA, L. I.; BOGODAEV, N. V.; OSIKO, V. V.; POLOZKOV, N. M..  
GROWTH OF SBN SINGLE CRYSTAL BY STEPANOV TECHNIQUE FOR  
PHOTOREFRACTIVE APPLICATIONS  
OPT. MATER. 22, 263 (1995)
332. BASIEV, T.T.; SIGACHEV, V.B.; DOROSHENKO, M.E.; PAPASHVILI, A.G.;  
ZVEREV, P.G.; OSIKO, V.V.  
PASSIVE Q-SWITCHING OF 1.3-UM ND-LASERS WITH ND 2+ :SRF 2 AND V 3+ :YAG  
CRYSTALLINE SATURABLE ABSORBERS AND APPLICATION TO RAMAN SHIFTING TO  
THE EYE-SAFE REGION  
CONFERENCE: LASER METHODS OF SURFACE TREATMENT AND MODIFICATION: ALT  
'94 INTERNATIONAL CONFERENCE , 171 (1995)
333. KUZMINOV, YS; OSIKO, VV.  
NONSTOICHIOMETRY IN LITHIUM-NIOBATE CRYSTALS  
KRISTALLOGRAFIYA 39(3), 530-535 (1994)
334. MAKAROVA, IP; BRAM, A; MARKL, J; GAMAUNOV, KV; IVANOV, AL;

- TAMAZYAN, RA; ROHNER, M; BURZLAFF, H; SAEMANNISCHENKO, G; SIMONOV, VI; OSIKO, VV.  
INFLUENCE OF CE DOPING ON THE DISTRIBUTION OF THE ELECTRON-DENSITY IN ND<sub>2</sub>-XCEXCUO<sub>4</sub>-DELTA  
PHYSICA C 223(1-2), 1-13 (1994)
335. VORONKO, YK; OSIKO, AV; OSIKO, VV; SOBOL, AA; USHAKOV, SN; TSYMBAL, LI.  
MOBILITY OF INTERSTITIAL FLUORINE BOUND TO TR<sup>3+</sup> ION ACTIVATOR CENTERS IN THE FLUORITE STRUCTURE  
FIZIKA TVERDOGO TELA 36(3), 748-753 (1994)
336. AVANESOV, AG; DENKER, BI; GALAGAN, BI; OSIKO, VV; SHESTAKOV, AV; SVERCHKOV, SE.  
ROOM-TEMPERATURE STIMULATED-EMISSION FROM CHROMIUM(IV)-ACTIVATED YTTRIUM ORTHOSILICATE  
KVANTOVAYA ELEKTRONIKA 21(3), 216-216 (1994)
337. DENKER, BI; KORCHAGIN, AA; OSIKO, VV; SVERCHKOV, SE; ALLIK, TH; HUTCHINSON, JA.  
DIODE-PUMPED AND FTIR Q-SWITCHED LASER PERFORMANCE OF NOVEL YB-ER GLASS  
OSA PROCEEDINGS ON ADVANCED SOLID-STATE LASERS 20, 148-150 (1994)
338. AVANESOV, AG; LEBEDEV, VA; DENKER, BI; GALAGAN, BI; OSIKO, VV; SVERCHKOV, SE; SHESTAKOV, AV.  
ROOM TEMPERATURE LASER ACTION OF Y<sub>2</sub>SIO<sub>5</sub>-CR<sup>4+</sup> CRYSTAL  
OSA PROCEEDINGS ON ADVANCED SOLID-STATE LASERS 20, 185-187 (1994)
339. KERTESZ, I; DANILEIKO, Y; DENKER, B; KROO, N; OSIKO, V; PROHOROV, A.  
PULSED SOLID-STATE LASERS FOR MEDICINE  
PROCEEDINGS OF BIOMEDICAL OPTOELECTRONIC DEVICES AND SYSTEMS 2084, 300-302 (1994)
340. KUZ'MINOV, YU.S.; OSIKO, V.V..  
NONSTOICHIOMETRY IN LITHIUM NIOBATE CRYSTALS  
CRYSTALLOGRAPHY REPORTS 39(3), 471 (1994)
341. VORONKO, YK; GORBACHEV, AV; OSIKO, VV; SOBOL, AA; FEIGELSON, RS; ROUTE, RK.  
STUDY OF THE BORON OXYGEN UNITS IN CRYSTALLINE AND MOLTEN BARIUM METABORATE BY HIGH-TEMPERATURE RAMAN-SPECTROSCOPY  
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS 54(11), 1579-1585 (1993)
342. MAKAROVA, IP; MOLCHANOV, VN; TAMAZYAN, RA; SIMONOV, VI; GAMAYUNOV, KV; IVANOV, AL; OSIKO, VV.  
REVISION OF ATOMIC-STRUCTURE OF ND<sub>2</sub>CUO<sub>4</sub> MONOCRYSTALS  
KRISTALLOGRAFIYA 38(4), 24-32 (1993)
343. DOROSHENKO, ME; OSIKO, VV; SIGACHEV, VB; TIMOSHECHKIN, MI.  
EFFICIENT OSCILLATION OF LASER-RADIATION NEAR 1.4 MU-M WAVELENGTH IN GD<sub>3</sub>GA<sub>5</sub>O<sub>12</sub>CR, CE, ND CRYSTAL  
KVANTOVAYA ELEKTRONIKA 20(6), 569-573 (1993)
344. VORONKO, YK; ESKOV, NA; OSIKO, VV; COBOL, AA; SYCHEV, SA; USHAKOV, SN; TSYMBAL, LI.  
STUDY OF LASING PROPERTIES OF CALCIUM-NIOBIUM-GALLIUM AND CALCIUM-LITHIUM-NIOBIUM GARNETS DOPED WITH NEODIMIUM AT 1.06 AND 1.33 MU-M

- WAVE-LENGTHES  
KVANTOVAYA ELEKTRONIKA 20(6), 574-576 (1993)
345. ZAVARTSEV, YD; OSIKO, VV; SEMENKOV, SG; STUDENIKIN, PA; UMYSKOV, AF.  
CASCADE LASING ON HO<sub>3</sub><sup>+</sup> IONS IN CR<sub>3</sub>+YB<sub>3</sub>+HO<sub>3</sub>+YSGG CRYSTAL  
KVANTOVAYA ELEKTRONIKA 20(4), 366-370 (1993)
346. OSIKO, VV; PENYAZ, DL; KHANEEV, NP.  
STUDY OF DIRECTIONAL CRYSTALLIZATION PROCESS IN A COLD CONTAINER WITH  
DIRECT RADIOFREQUENCY HEATING  
JOURNAL OF CRYSTAL GROWTH 128(1-4), 1193-1196 (1993)
347. VORON'KO, YU.K.; ES'KOV, N.A.; OSIKO, V.V.; SOBOL', A.A.; SYCHEV, S.A.;  
USHAKOV, S.N.; TSYMBAL, L.I..  
LASING PROPERTIES OF NEODYMIUM-DOPED CALCIUM-NIOBIUM-GALLIUM AND  
CALCIUM-LITHIUM-NIOBIUM-GALLIUM GARNETS AT WAVELENGTHS OF 1.06 AND  
1.33 MUM  
QUANTUM ELECTRONICS 23(6), 494 (1993)
348. ZAVARTSEV, YU.D.; OSIKO, V.V.; SEMENKOV, S.G.; STUDENTKIN, P.A.;  
UMYSKOV, A.F..  
CASCADE LASER OSCILLATION DUE TO HO<sub>3</sub><sup>+</sup> IONS IN A (CR,YB,HO):YSGG YTTRIUM-  
SCANDIUM-GALLIUM GARNET CRYSTAL  
QUANTUM ELECTRONICS 23(4), 312 (1993)
349. DOROSHENKO, M.E.; OSIKO, V.V.; SIGACHEV, V.B.; TIMOSHECHKIN, M.I..  
EFFICIENT LASING NEAR 1.4 MUM IN A (CR, CE, ND):GD3GA5O12 CRYSTAL  
QUANTUM ELECTRONICS 23(6), 490 (1993)
350. KUZMINOV, YU.S.; OSIKO, V.V..  
NONSTOICHIOMETRIC COMPOSITION OF LITHIUM NIOBATE CRYSTAL  
FERROELECTRICS 142(1-2), 105 (1993)
351. SIGACHEV, VB; DOROSHENKO, ME; OSIKO, VV; TIMOSHECHKIN, MI.  
EFFICIENT LASER OPERATION OF CR,NDGGG CRYSTALS AT 1.331 AND 1.423-MU-M  
GROWTH, CHARACTERIZATION, AND APPLICATIONS OF LASER HOST AND  
NONLINEAR CRYSTALS II 1863, 97-104 (1993)
352. ZAVARTSEV, Y.D.; OSIKO, V.V.; SEMENKOV, S.G.; STUDENIKIN, P.A.;  
UMYSKOV, A.F..  
CASCADE LASER OSCILLATION DUE TO HO<sub>3</sub><sup>+</sup>IONS IN A (CR, YB, HO):YSGG YTTRIUM-  
SCANDIUM-GALLIUM-GARNET CRYSTAL, KVANTOVAYA ELEKTRON. 20, 366 (1993),  
ENGLISH TRANSL  
SOV. J. QUANTUM ELECTRON 23, 312 (1993)
353. DENISOV, AL; ZAGUMENNYI, AI; LUTTS, GB; OSIKO, VV; SEMENKOV, SG;  
UMYSKOV, AF.  
YB<sub>3</sub>SC<sub>2</sub>GA<sub>3</sub>O<sub>12</sub>CR<sub>3</sub><sup>+</sup>,HO<sub>3</sub><sup>+</sup> CRYSTAL - A PROMISING MEDIUM FOR LASING ON HO<sub>3</sub><sup>+</sup>  
IONS CASCADE SCHEME  
KVANTOVAYA ELEKTRONIKA 19(9), 842-844 (1992)
354. DOROSHENKO, ME; OSIKO, VV; SIGACHEV, VB; TIMOSHECHKIN, MI.  
LASER PROPERTIES OF THE ND AND CR CO-DOPED GA-GD GARNET CRYSTAL ON THE  
TRANSITION 4F<sub>3/2</sub>-4I<sub>13/2</sub> (LAMBDA=1,33 M)  
IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA 56(8), 147-152 (1992)
355. ALEKSANDROV, VI; VOITSITSKII, VP; LOMONOVA, EE; OSIKO, VV; KHANEEV,  
NP.  
CONTROL OF DIRECTIONS OF FUSION DISTRIBUTION AT THE INITIAL-STAGE OF

- DIRECT UF FUSION IN COLD CONTAINER  
ZHURNAL TEKHNICHESKOI FIZIKI 62(8), 180-186 (1992)
356. VORONKO, YK; IVLEVA, LI; KUDRYAVTSEV, AB; OSIKO, VV; SOBOL, AA.  
RAMAN-SCATTERING SPECTRUM OF CRYSTALLINE ALPHA-BAB2O4  
INORGANIC MATERIALS 28(8), 1357-1360 (1992)
357. VORONKO, YK; GORBACHEV, AV; KUDRYAVTSEV, AB; OSIKO, VV; SOBOL, AA.  
RAMAN-SCATTERING STUDY OF THE MELT STRUCTURE AND CRYSTALLIZATION  
PROCESSES IN CESIUM AND BARIUM METABORATE  
INORGANIC MATERIALS 28(8), 1373-1378 (1992)
358. ALEKSANDROV, VI; VOITSITSKII, VP; LOMONOVA, EE; OSIKO, VV; KHANEEV,  
NP.  
A TECHNIQUE FOR CONTROLLING THE DIRECTION OF MELT PROPAGATION AT THE  
BEGINNING OF DIRECT HIGH-FREQUENCY MELTING IN A COLD CONTAINER  
INSTRUMENTS AND EXPERIMENTAL TECHNIQUES 35(4), 730-734 (1992)
359. DENKER, BI; OSIKO, VV; SVERCHKOV, SE; SVERCHKOV, YE; FEFELOV, AP;  
KHOMENKO, SI.  
HIGHLY EFFICIENT ERBIUM GLASS LASERS WITH Q-SWITCHING BASED ON  
FRUSTRATED TOTAL INTERNAL-REFLECTION  
KVANTOVAYA ELEKTRONIKA 19(6), 544-547 (1992)
360. BORIK, M; CHERNIKOV, M; DUBOV, I; OSIKO, V; VESELAGO, V; YAKOWETS, Y;  
STEPANKIN, V.  
SYNTHESIS CONDITIONS AND SUPERCONDUCTION PROPERTIES OF CERAMICS IN THE  
(BI, PB)-SR-CA-CU-O SYSTEM  
SUPERCONDUCTOR SCIENCE & TECHNOLOGY 5(3), 151-155 (1992)
361. BASIEV, TT; DERGACHEV, AY; ORLOVSKII, YV; OSIKO, VV; PROKHOROV, AM.  
INTERCENTER MULTIPHONON NONRADIATIVE RELAXATION FROM HIGH-LYING  
LEVELS OF ND<sup>3+</sup> ION IN OXIDE LASER CRYSTALS  
IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA 56(2), 113-120 (1992)
362. BASIEV, TT; ESKOV, NA; KARASIK, AY; OSIKO, VV; SOBOL, AA; USHAKOV, SN;  
HELBIG, M.  
DISORDERED GARNETS CA<sub>3</sub>(NB, GA)<sub>5</sub>O<sub>12</sub>-ND<sup>3+</sup> - PROSPECTIVE CRYSTALS FOR  
POWERFUL ULTRASHORT-PULSE GENERATION  
OPTICS LETTERS 17(3), 201-203 (1992)
363. DOROSHENKO, ME; OSIKO, VV; SIGACHEV, VB; STRELOV, VI; TIMOSHECHKIN,  
MI.  
LARGE SINGLE-CRYSTALS OF NEODYMIUM AND CHROMIUM CO-DOPED  
GADOLINIUM GALLIUM GARNET FOR EFFICIENT SOLID-STATE LASERS  
ICONO - SOLID STATE LASERS AND NEW LASER MATERIALS 1839, 12-29 (1992)
364. SVERCHKOV, SE; DENKER, BI; OSIKO, VV; SVERCHKOV, YE.  
EFFECTIVE EYESAFE FRUSTRATED TOTAL INTERNAL-REFLECTION Q-SWITCHED  
ERBIUM GLASS LASERS  
SOLID STATE LASERS III 1627, 42-45 (1992)
365. SVERCHKOV, YE; DENKER, BI; MAXIMOVA, GV; OSIKO, VV; SVERCHKOV, SE.  
LASING PARAMETERS OF GPI ERBIUM GLASSES  
SOLID STATE LASERS III 1627, 37-41 (1992)
366. BASIEV, TT; VORONKO, YK; ESKOV, NA; KARASIK, AY; OSIKO, VV; SOBOL, AA;  
USHAKOV, SN; FEDOROV, VV; HELBIG, M.  
CALCIUM-NIOBIUM-GALLIUM GARNETS WITH ND - A NEW ACTIVE MEDIUM FOR

- LASERS WITH ULTRASHORT PULSE DURATION  
ICONO - SOLID STATE LASERS AND NEW LASER MATERIALS 1839, 91-103 (1992)
367. DENKER, B; DIANOV, E; GRUDININ, A; KOZLOW, V; OSIKO, V; SENATOROV, A;  
SVERCHKOV, S; SVERCHKOV, Y.  
PULSED PICOSECOND LASER WITH ACTIVE MODE-LOCKING BASED ON CR-YB-ER  
GLASS LGE-C2  
OSA PROCEEDINGS ON ADVANCED SOLID-STATE LASERS, VOL 13 13, 131-134 (1992)
368. BASIEV, T.T.; DERGACHEV, A.YU.; ORLOVSKY, YU.V.; OSIKO, V.V.;  
PROKHOROV, A.M..  
INTRACENTER MULTIPHONON NONRADIATIVE RELAXATION FROM HIGH-LYING  
LEVELS OF ND<sup>3+</sup> IONS IN OXIDE LASER CRYSTALS  
CONFERENCE: ALL-UNION CONFERENCE ON LUMINESCENCE. DEDICATED TO THE  
CENTENARY OF ACADEMICIAN S.I. VAVILOV LOCATION: MOSCOW, RUSSIA DATE:  
MARCH 1991 56(2), 219 (1992)
369. DENKER, B.; MAXIMOVA, G.; OSIKO, V.; ET AL..  
LASING TESTS OF NOVEL ERBIUM LASER GLASSES  
RUSSIAN JOURNAL OF QUANTUM ELECTRONICS 19(9), 1063 (1992)
370. GORBUNOV, PV; DENKER, BI; ILCHEV, NN; KIRYANOV, AV; MAKSIMOVA, GV;  
MOTSARTOV, VV; OSIKO, VV; SVERCHKOV, SE; SVERCHKOV, YE; YAKIMENKO, VN.  
EMISSION TESTS OF NEW NEODYMIUM LASER GLASSES  
KVANTOVAYA ELEKTRONIKA 18(11), 1303-1305 (1991)
371. ALEKSANDROV, VI; VOITSITSKII, VP; LOMONOVA, EE; OSIKO, VV; KHANEEV,  
NP.  
STUDY OF MELTING AND CRYSTALLIZATION PROCESSES OF MATERIALS IN A COLD  
CONTAINER DURING DIRECT HIGH-FREQUENCY HEATING  
INORGANIC MATERIALS 27(10), 1845-1848 (1991)
372. DENKER, BI; MAKSIMOVA, GV; OSIKO, VV; SVERCHKOV, SE; SVERCHKOV, YE.  
EMISSION STUDIES OF NEW ERBIUM LASER GLASSES  
KVANTOVAYA ELEKTRONIKA 18(9), 1063-1065 (1991)
373. ROSHAL, LM; GORBATOVA, NE; LIVSHITS, YL; PARKHOMENKO, YG; OSIKO, VV;  
DANILEIKO, YK; SIDORIN, AV; TULAIKOVA, TV; IVANOV, AD.  
THE 1ST EXPERIENCE IN CONCURRENTLY EXPOSING EXPERIMENTAL ANIMAL-TISSUES  
TO AIG-NEODYMIUM AND AIG-ERBIUM IRRADIATION AND THE POSSIBILITY OF ITS  
USE IN SURGERY  
KHIRURGIYA (8), 103-105 (1991)
374. BUZYNIN, AN; BUVALTSEV, AI; BUTYLKINA, NA; LUKYANOV, AE; OSIKO, VV;  
TATARINTSEV, VM.  
INFLUENCE OF SI MICRODEFECTS ON CHARACTERISTICS OF DEVICES WITH  
METALLIZATION  
IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA 55(8), 1594-1597 (1991)
375. DOROSHENKO, ME; OSIKO, VV; SIGACHEV, VB; TIMOSHECHKIN, MI.  
AN EFFICIENT LASER UTILIZING A NEODYMIUM-DOPED GADOLINIUM-GALLIUM  
GARNET CRYSTAL  
KVANTOVAYA ELEKTRONIKA 18(7), 799-802 (1991)
376. DENKER, BI; MAKSIMOVA, GV; OSIKO, VV; SVERCHKOV, SE; SVERCHKOV, YE.  
ERBIUM GLASS LASERS WITH PASSIVE Q-SWITCHING OF THE RESONATOR BY AN  
ERBIUM-CONTAINING ELEMENT  
KVANTOVAYA ELEKTRONIKA 18(7), 855-858 (1991)

377. ALEKSANDROV, VI; VOINITSKII, VP; LOMONOVA, EE; OSIKO, VV; KHANEEV, NP.  
METHOD FOR STUDY OF MELTING AND CRYSTALLIZATION PROCESSES IN COLD CONTAINER WITH DIRECT RADIOFREQUENCY HEATING  
INSTRUMENTS AND EXPERIMENTAL TECHNIQUES 34(3), 731-734 (1991)
378. ALEKSANDROV, VI; VOINITSKII, VP; LOMONOVA, EE; OSIKO, VV; KHANEEV, NP.  
MELTING OF DIELECTRICS IN DIRECT HIGH-FREQUENCY HEATING IN A COLD CONTAINER  
INORGANIC MATERIALS 27(5), 818-822 (1991)
379. DOROSHENKO, ME; OSIKO, VV; SIGACHEV, VB; TIMOSHECHKIN, MI.  
LASING PROPERTIES OF A NEODYMIUM-DOPED GADOLINIUM-GALLIUM GARNET CRYSTAL DUE TO THE  $4F_{3/2}-4I_{13/2}$  TRANSITION ( $\lambda=1.33\text{-}\mu\text{m}$ )  
KVANTOVAYA ELEKTRONIKA 18(3), 298-300 (1991)
380. DANILOV, AA; NIKIRUI, EY; OSIKO, VV; POLUSHKIN, VG; SOROKIN, SN; TIMOSHECHKIN, MI.  
AN EFFICIENT LASER WITH A RECTANGULAR ACTIVE ELEMENT  
KVANTOVAYA ELEKTRONIKA 18(3), 296-297 (1991)
381. OSIKO, VV; SIGACHEV, VB; STRELOV, VI; TIMOSHECHKIN, MI.  
A LASER UTILIZING AN ERBIUM-GADOLINIUM-GALLIUM GARNET CRYSTAL  
KVANTOVAYA ELEKTRONIKA 18(2), 179-181 (1991)
382. VORON'KO, YU.K.; KUDRYAVTSEV, A.B.; OSIKO, V.V.; SOROKIN, E.V..  
INVESTIGATION OF THE STRUCTURE OF A MELT AND MOLECULAR DYNAMICS OF ORTHO- AND PYROPHOSPHATES BY RAMAN SPECTROSCOPY  
JOURNAL OF APPLIED SPECTROSCOPY 55(4), 953 (1991)
383. DENKER, B.I.; MAKSIMOVA, G.V.; OSIKO, V.V.; SVERCHKOV, S.E.; SVERCHKOV, YU.E..  
ERBIUM GLASS LASERS WITH PASSIVE Q SWITCHING OF THE RESONATOR BY A COMPONENT CONTAINING ERBIUM  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 21(7), 774 (1991)
384. DOROSHENKO, M.E.; OSIKO, V.V.; SIGACHEV, V.B.; TIMOSHECHKIN, M.I..  
EFFICIENT NEODYMIUM-DOPED GADOLINIUM GALLIUM GARNET CRYSTAL LASER  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 21(7), 724 (1991)
385. DENKER, B.I.; MAKSIMOVA, G.V.; OSIKO, V.V.; SVERCHKOV, S.E.; SVERCHKOV, YU.E..  
INVESTIGATION OF THE LASING CAPABILITIES OF NEW ERBIUM GLASSES  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 21(9), 964 (1991)
386. DOROSHENKO, M.E.; OSIKO, V.V.; SIGACHEV, V.B.; TIMOSHECHKIN, M.I..  
STIMULATED EMISSION FROM A NEODYMIUM-DOPED GADOLINIUM GALLIUM GARNET CRYSTAL DUE TO THE  $4F_{3/2}-4I_{13/2}$  ( $\lambda=1.33\text{ }\mu\text{m}$ ) TRANSITION  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 21(3), 266 (1991)
387. IVLEVA, II; GALAGAN, BI; ALEJNIK, AP; DENKER, BI; OSIKO, VV.  
GROWTH AND CHARACTERIZATION OF  $\text{CAMO}_4\text{ND}_3+\text{CR}_6+$  SINGLE-CRYSTALS  
CRYSTAL GROWTH, PTS 1 AND 2 , B169-B174 (1991)
388. DENKER, BI; MAKSIMOVA, GV; OSIKO, VV; PROKHOROV, AM; SVERCHKOV, SE; SVERCHKOV, YE; HORVATH, G.  
PASSIVE Q-SWITCHING OF EYESAFE ER - GLASS LASERS  
EYESAFE LASERS : COMPONENTS, SYSTEMS, AND APPLICATIONS 1419, 50-54 (1991)



389. OSIKO, VV; SIGACHEV, VB; TIMOSHECHKIN, MI; DOROSHENKO, ME.  
SPECTROSCOPIC AND LASER PROPERTIES OF ERBIUM, CERIUM AND CHROMIUM  
DOPED GADOLINIUM GALLIUM GARNET CRYSTALS  
OSA PROCEEDINGS ON ADVANCED SOLID-STATE LASERS / 10, 235-237 (1991)
390. DANILOV, AA; NIKIRUI, EY; OSIKO, VV; POLUSHKIN, VG; SOROKIN, SN;  
TIMOSHECHKIN, MI.  
EFFECTIVE LASER WITH ACTIVE ELEMENT RECTANGULAR GEOMETRY  
PHYSICAL CONCEPTS OF MATERIALS FOR NOVEL OPTOELECTRONIC DEVICE  
APPLICATIONS II : DEVICE PHYSICS AND APPLICATIONS, PARTS 1 AND 2 1362, 916-  
920 (1991)
391. GAMAYUNOV, K.V.; IVANOV, A.L.; OSIKO, V.V.; TATARINTSEV, V.M..  
GROWING SINGLE CRYSTALS IN A ND<sub>2</sub>O<sub>3</sub>-CEO<sub>2</sub>-CUO SYSTEM BY THE SPONTANEOUS  
CRYSTALLIZATION METHOD  
SUPERCONDUCTIVITY: PHYSICS, CHEMISTRY, TECHNOLOGY 4(12), 2306 (1991)
392. OSIKO, V.V.; SIGACHEV, V.B.; STRELOV, V.I.; TIMOSHECHKIN, M.I..  
ERBIUM GADOLINIUM GALLIUM GARNET CRYSTAL LASER  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 21(2), 159 (1991)
393. VAKHRUSHEV, S.B.; KOLLA, E.V.; OKUNEVA, N.M.; SHUL'PINA, I.L.;  
SHCHEGLOV, M.P.; OSIKO, V.V.; GAMAYUNOV, K.V.; IVANOV, A.L..  
ACTUAL STRUCTURE OF LARGE SUPERCONDUCTING LA<sub>1.92</sub>SR<sub>0.08</sub>CUO<sub>4</sub> SINGLE  
CRYSTALS  
SUPERCONDUCTIVITY: PHYSICS, CHEMISTRY, TECHNOLOGY 4(6), 1017 (1991)
394. GAMAYUNOV, KV; IVANOV, AL; OSIKO, VV; TATARINTSEV, VM; CHERNOV, AI.  
SINGLE CRYSTALLINE WHISKERS OF LA<sub>1</sub>-XSRXCUO<sub>3</sub>-Y  
SOLID STATE COMMUNICATIONS 76(5), 725-726 (1990)
395. VORONKO, YK; GESSEN, SB; ESKOV, NA; OSIKO, VV; RYABOCHKINA, PA;  
SOBOL, AA; USHAKOV, SN; TSYMBAL, LI.  
CALCIUM-LITHIUM NIOBIUM GALLIUM GARNET CRYSTALS DOPED WITH CR-3+, TM-  
3+, HO-3+ AS A NEW MEDIUM FOR 2-MICRON LASERS  
KVANTOVAYA ELEKTRONIKA 17(10), 1282-1283 (1990)
396. DENKER, BI; MAKSIMOVA, GV; OSIKO, VV; SVERCHKOV, SE; SVERCHKOV, YE.  
NEW METHODS OF ERBIUM GLASS-LASER PASSIVE Q-SWITCHING  
KVANTOVAYA ELEKTRONIKA 17(8), 959-959 (1990)
397. VORONKO, YK; GESSEN, SB; GRIBKOV, IV; OSIKO, VV; RYABOCHKINA, PA;  
TATARINTSEV, VM; USHAKOV, SN; TSYMBAL, LI.  
SENSITIZING OF THE LUMINESCENCE FROM ER-3+ IN (YER)<sub>3</sub>AL<sub>5</sub>O<sub>12</sub>-CR-3+ CRYSTALS  
AND THE LASER ACTION AT THE WAVELENGTH OF 2.7 MU-M  
KVANTOVAYA ELEKTRONIKA 17(8), 1007-1009 (1990)
398. ROSHAL, LM; GORBATOVA, NE; LIVSHITS, YL; PARKHOMENKO, YG; OSIKO, VV;  
DANILEIKO, YK; SIDORIN, AV; TULAIKOVA, TV; IVANOV, AD.  
POSSIBILITIES OF JOINT INTERACTION OF MULTIPULSED YAG-ND AND YAG-ER LASER-  
BEAMS WITH TISSUES OF EXPERIMENTAL-ANIMALS  
IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA 54(8), 1607-1610 (1990)
399. SIMONOV, VI; MURADYAN, LA; TAMAZYAN, RA; OSIKO, VV; TATARINTSEV,  
VM; GAMAYUMOV, K.  
DISTRIBUTION OF SR ATOMS IN SINGLE-CRYSTALS OF (LA<sub>1</sub>-XSRX)<sub>2</sub>CUO<sub>4</sub>-DELTA AND  
THE SUPERCONDUCTING TRANSITION-TEMPERATURE  
PHYSICA C 169(1-2), 123-132 (1990)

400. ALEKSANDROV, VI; VISHNYAKOVA, MA; VOITSITSKII, VP; VORONKO, YK; LOMONOVA, EE; MYZINA, VA; OSIKO, VV; SOBOL, AA; USHAKOV, SN; TSYMBAL, LI. SPECTROSCOPIC PROPERTIES OF SINGLE-CRYSTALS OF ZRO<sub>2</sub>-Y<sub>2</sub>O<sub>3</sub> SOLID-SOLUTIONS ACTIVATED BY CHROMIUM AND NEODYMIUM INORGANIC MATERIALS 26(6), 1061-1065 (1990)
401. BASIEV, TT; VORONOV, VV; GAMAYUNOV, KV; OSIKO, VV; SVISTOVA, EG; TATARINTSEV, VM; CHERNOV, AI. SPECTROSCOPY OF SUPER-QUICKLY QUENCHED TUNGSTATES ACTIVATED BY EU-3+ IONS OPTIKA I SPEKTROSKOPIYA 68(5), 1091-1095 (1990)
402. BORIK, MA; GORBUNOV, PV; DANILEIKO, YK; DENKER, BI; IVANOV, AD; ILICHEV, NN; LARIKOV, AV; LEBEDEVA, TP; MAKSIMOVA, GV; MOTSAKOV, VV; MUSATOV, AG; OSIKO, VV; PASHININ, PP. A HIGH-POWER REPETITIVELY PULSED SOLID-STATE NEODYMIUM-GLASS LASER WITH A PLATELET-SHAPE ACTIVE ELEMENT KVANTOVAYA ELEKTRONIKA 17(4), 398-399 (1990)
403. ALEKSANDROV, VI; GERASIMOVA, IA; KOLESNIKOV, AV; LOMONOVA, EE; OSIKO, VV; PANOV, VA; MAKAROV, PA; ARCHAKOV, AV; GORASHCHENKO, NG; MAIER, AA. GROWTH OF SILLENITE MONOCRYSTALS FROM COLD CRUCIBLE ZHURNAL NEORGANICHESKOI KHIMII 35(4), 878-881 (1990)
404. VESELAGO, VG; GAMAJUNOV, KV; ZORYA, VI; IVANOV, AL; OSIKO, VV; TATARINTSEV, VM; FRADKOV, VA; CHERNIKOV, MA; CHERNOV, AI. STRONTIUM CONTENT OF LA<sub>2</sub>-XSRXCUO<sub>4</sub>-DELTA SINGLE-CRYSTALS GROWN FROM CUO FLUX SUPERCONDUCTOR SCIENCE & TECHNOLOGY 3(3), 121-123 (1990)
405. BUZYNIN, AN; ZABOLOTSKII, SE; KALINUSHKIN, VP; LUKYANOV, AE; MURINA, TM; OSIKO, VV; PLOPPA, MG; TATARINTSEV, VM; EIDENZON, AM. LARGE ELECTRICALLY ACTIVE IMPURITY CLUSTERS IN SILICON-CRYSTALS GROWN BY THE CZOCHRALSKI METHOD SOVIET PHYSICS SEMICONDUCTORS-USSR 24(2), 161-165 (1990)
406. BASIEV, TT; DERGACHEV, AY; IVANOV, MA; OSIKO, VV; SIGACHEV, VB; TIMOSHECHKIN, MI; KERTESZ, I. GENERATION PROPERTIES OF A PASSIVELY Q-SWITCHED GGG-ND LASER WITH PULSED AND CONTINUOUS PUMPING SOURCES IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA 54(10), 2051-2054 (1990)
407. ASHUROV, MK; BUDREVICH, AG; GAFITULLINA, DS; ERZIN, RA; OSIKO, VV. FORMATION OF THE MICROZONE STRUCTURE IN GROWING OF HIGH-MELTING OXIDE CRYSTALS DOKLADY AKADEMII NAUK SSSR 313(3), 590-593 (1990)
408. DENKER, BI; VORONOV, VV; IVLEVA, LI; OSIKO, VV; PASHININ, PP; POLOZKOV, NM; SVERCHKOV, IE; JAKIMENKO, VN. PLEOCHROISM AND POLARIZED LUMINESCENCE OF MG<sub>2</sub>SIO<sub>4</sub>-CR CRYSTALS DOKLADY AKADEMII NAUK SSSR 310(1), 75-77 (1990)
409. VORON'KO, YU.K.; GESSEN, S.B.; ES'KOV, N.A.; OSIKO, V.V.; SOBOL', A.A.; USHAKOV, S.N.; TSYMBAL, L.I.. CALCIUM LITHIUM NIOBIUM GALLIUM GARNET CRYSTALS ACTIVATED WITH ER<sub>3</sub> AND

- CR3+ AS A NEW ACTIVE MEDIUM FOR 3-MUM LASERS  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 20(6), 643 (1990)
410. VORON'KO, YU.K.; GESSEN, S.B.; ES'KOV, N.A.; OSIKO, V.V.; RYABOCHKINA, P.A.; SOBOL', A.A.; USHAKOV, S.N.; TSYMBAL, L.I.  
CALCIUM LITHIUM NIOBIUM GALLIUM GARNET CRYSTALS ACTIVATED WITH CR3+, TM3+, AND HO3+ IONS AS A NEW ACTIVE MEDIUM FOR LAMBDAAP2 MUM LASERS  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 20(10), 1189 (1990)
411. VORON'KO, YU.K.; GESSEN, S.B.; GRIBKOV, I.V.; OSIKO, V.V.; RYABOCHKINA, P.A.; TATARINTSEV, V.M.; USHAKOV, S.N.; TSYMBAL, L.I.  
SENSITIZATION OF THE ER3+ LUMINESCENCE IN (YER)3AL5O12CR3+ CRYSTALS AND LASING AT THE 2.7 MUM WAVELENGTH  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 20(8), 923 (1990)
412. DENKER, B.I.; MAKSIMOVA, G.V.; OSIKO, V.V.; SVERCHKOV, S.E.; SVERCHKOV, YU.E..  
NEW METHODS FOR PASSIVE Q SWITCHING OF ERBIUM GLASS LASERS  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 20(8), 877 (1990)
413. BUZYNIN, A.N.; BUTYLKINA, N.A.; GRICHEVSKII, I.B.; LUK'YANOV, A.E.; OSIKO, V.V.; POROIKOVA, E.V.; TATARINTSEV, V.M.; AL SHAER, V..  
DETERMINING THE CHARACTERISTICS OF ELECTRICALLY ACTIVE DEFECTS OF SILICON  
CONFERENCE: FIFTH ALL-UNION SYMPOSIUM ON RASTER ELECTRON MICROSCOPES AND ANALYTICAL METHODS OF INVESTIGATING SOLIDS LOCATION: ZVERIGOROD, USSR DATE: APRIL 1989 54(2), 96 (1990)
414. BORIK, M; CHERNIKOV, M; IVANO, P; OSIKO, V; STEPANKIN, V; VESELAGO, V.  
SHIELDING ANOMALIES IN GRANULAR OXIDE SUPERCONDUCTORS  
PHYSICA C 162, 727-728 (1989)
415. ALEKSANDROV, VI; VISHNYAKOVA, MA; VOITSITSKII, VP; LOMONOVA, EE; NOGINOV, MA; OSIKO, VV; SMIRNOV, VA; UMYSKOV, AF; SHCHERBAKOV, IA.  
A 3-MU-M ZRO2-Y2O3-ER-3+ LASER  
KVANTOVAYA ELEKTRONIKA 16(12), 2421-2423 (1989)
416. GALAGAN, BI; DENKER, BI; GORBUNOV, PV; OSIKO, VV; SHKLOVSKII, EI.  
CONCENTRATED NEODYMIUM PHOSPHATE-GLASSES IN SMALL-SIZE REPETITIVELY PULSED AMPLIFIERS  
KVANTOVAYA ELEKTRONIKA 16(12), 2400-2404 (1989)
417. VORONKO, YK; DYAKOV, VA; KUDRYAVTSEV, AB; OSIKO, VV; SOBOL, AA; SOROKIN, EV.  
RAMAN-STUDY OF PHASE-TRANSITIONS IN KTIOPO4  
FIZIKA TVERDOGO TELA 31(10), 150-156 (1989)
418. BATYGOV, SK; VORONKO, YK; KIRYUKHIN, AA; MARGIANI, NG; MELIKHOV, DI; OSIKO, VV; RYSKIN, NN; TATARINTSEV, VM.  
X-RAY EXCITED LUMINESCENCE OF YTTRIUM SCANDIUM-ALUMINUM GARNET  
OPTIKA I SPEKTROSKOPIYA 67(4), 839-844 (1989)
419. VORONKO, YK; GESSEN, SB; GRIBKOV, IV; KIRYUKHIN, AA; LAVRISHCHEV, SV; MELIKHOV, DI; OSIKO, VV; SOBOL, AA; TATARINTSEV, VM; USHAKOV, SN; TSYMBAL, LI.  
A 3 MICRON LASER UTILIZING GADOLINIUM-ERBIUM-SCANDIUM-ALUMINUM GARNET CRYSTALS COACTIVATED BY CR3+  
KVANTOVAYA ELEKTRONIKA 16(9), 1785-1786 (1989)

420. BATYGOV, SK; VORONKO, YK; MARGIANI, NG; OSIKO, VV; RYSKIN, NN; STRELOV, VI; TIMOSHECHKIN, MI.  
X-RAY LUMINESCENCE OF YTTRIUM-GALLIUM GARNET  
OPTIKA I SPEKTROSKOPIYA 67(3), 614-618 (1989)
421. DENKER, BI; KERTESZ, I; KIRJANOV, AV; KROO, N; MALJUTIN, AA; OSIKO, VV; SVERCHKOV, SE; SVERCHKOV, UE.  
REPETITIVELY PULSED ND-GLASS SLAB LASERS  
IEEE JOURNAL OF QUANTUM ELECTRONICS 25(9), 1979-1980 (1989)
422. ALEXANDROV, V; VESELAGO, V; VINOKUROVA, L; IVANOV, V; KLIMOVA, L; OSIKO, V; UDOVENCHIK, V.  
MAGNETORESISTANCE OF HIGH TC-SUPERCONDUCTORS  
ACTA PHYSICA POLONICA A 76(1), 41-43 (1989)
423. BADALYAN, AG; BARANOV, PG; ALEKSANDROV, VI; BORIK, MA; OSIKO, VV.  
MAGNETIC-RESONANCE AND RELAXATION IN GDBA<sub>2</sub>CU<sub>3</sub>O<sub>X</sub> SINGLE-CRYSTALS BELOW TC  
JETP LETTERS 49(11), 697-701 (1989)
424. BLISTANOV, AA; GALAGAN, BI; DENKER, BI; IVLEVA, LI; OSIKO, VV; POLOZKOV, NM; SVERCHKOV, YE.  
SPECTRAL-LASING PROPERTIES OF CAMOO<sub>4</sub>-ND-3+ SINGLE-CRYSTALS  
KVANTOVAYA ELEKTRONIKA 16(6), 1152-1154 (1989)
425. KUZMICHEVA, GM; KOZLIKIN, SN; ZHARIKOV, EV; KALITIN, SP; OSIKO, VV.  
X-RAY-DIFFRACTION STUDY OF YTTRIUM-SCANDIUM-GALLIUM GARNETS  
ZHURNAL NEORGANICHESKOI KHIMII 34(6), 1406-1410 (1989)
426. KUZMICHEVA, GM; MUKHIN, BV; KOZLIKIN, SN; ZHARIKOV, EV; ZAGUMENNYI, AI; LUTTS, GB; OSIKO, VV.  
USING THE CRYSTAL-CHEMICAL APPROACH FOR THE DETERMINATION OF GADOLINIUM-SCANDIUM-ALUMINUM GARNET COMPOSITION  
ZHURNAL NEORGANICHESKOI KHIMII 34(5), 1129-1132 (1989)
427. OSIKO, VV; PROKHOROV, AM; SIGACHEV, VB; TIMOSHECHKIN, MI.  
HIGH-EFFICIENCY CR-DOPED AND ND-DOPED GADOLINIUM-GALLIUM GARNET LASER  
DOKLADY AKADEMII NAUK SSSR 307(1), 105-109 (1989)
428. VOLOSHINA, IV; TSIRELSON, VG; ZHARIKOV, EV; GERR, RG; ANTIPIN, MI; KALITIN, SP; OZEROV, RP; OSIKO, VV; STRUCHKOV, IT.  
ELECTRON-STRUCTURE PROPERTIES OF GADOLINIUM-SCANDIUM-GALLIUM GARNET  
DOKLADY AKADEMII NAUK SSSR 308(5), 1115-1118 (1989)
429. OSIKO, VV; PETRUNIN, GI; POPOV, VG; TIMOSHECHKIN, MI.  
EFFECT OF CHEMICAL-COMPOSITION ON HEAT-CONDUCTIVITY AND TEMPERATURE CONDUCTIVITY AND HEAT-CAPACITY OF GALLIUM GARNETS  
DOKLADY AKADEMII NAUK SSSR 309(1), 92-96 (1989)
430. GIPPIUS, NA; DANILEIKO, IK; IONOV, PV; MIROV, SB; MUSATOV, AG; OSIKO, VV; SIDORIN, AV; TULAIKOVA, TV.  
CAPABILITIES OF THE COMBINED ACTION OF 2 YAG-ND-3+-LASERS ON METALS  
DOKLADY AKADEMII NAUK SSSR 308(5), 1122-1127 (1989)
431. ACHUROV, MK; ZHARIKOV, EV; KURBANOV, AM; NASYROV, IN; OSIKO, VV; KHABIBULLAEV, PK; SHCHERBAKOV, IA.  
IRRADIATION STABILITY OF RARE-EARTH SCANDIUM-ALUMINIUM GARNETS  
DOKLADY AKADEMII NAUK SSSR 305(3), 581-583 (1989)

432. BUZYNIN, AN; ZAICHKO, VV; OSIKO, VV; TATARINTSEV, VM.  
CONDITIONS OF VIOLATION OF DISLOCATION-FREE GROWTH AND STABILITY OF THE  
MELTED ZONE IN GROWING SILICON-CRYSTALS BY FLOATING ZONE TECHNIQUE  
KRISTALLOGRAFIYA 34(1), 208-214 (1989)
433. BASIEV, TT; VORONOV, VV; GAMAIUNOV, KV; OSIKO, VV; SVISTOVA, EG;  
TATARINTSEV, VM; CHERNOV, AI.  
SPECTROSCOPIC PROPERTIES OF RAPIDLY QUENCHED TUNGSTATES ACTIVATED WITH  
EU<sup>3+</sup> IONS  
DOKLADY AKADEMII NAUK SSSR 304(2), 370-372 (1989)
434. ALEKSANDROV, V.I.; VISHNYAKOVA, M.A.; VOITSITSKII, V.P.; LOMONOVA,  
E.E.; NOGINOV, M.A.; OSIKO, V.V.; SMIRNOV, V.A.; UMYSKOV, A.F.; SHCHERBAKOV,  
I.A..  
FIANITE (ZRO<sub>2</sub>-Y<sub>2</sub>O<sub>3</sub>:ER<sub>3</sub><sup>+</sup>) LASER EMITTING THE 3-MUM RANGE  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 19(12), 1555 (1989)
435. BLISTANOV, A.A.; GALAGAN, B.I.; DENKER, B.I.; IVLEVA, L.I.; OSIKO, V.V.;  
POLOZKOV, N.M.; SVERCHKOV, YU.E..  
SPECTRAL AND LASING CHARACTERISTICS OF CAMOO<sub>4</sub>:ND<sub>3</sub><sup>+</sup> SINGLE CRYSTALS  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 19(6), 747 (1989)
436. VORON'KO, YU.K.; GESSEN, S.B.; GRIBKOV, I.V.; KIRYUKHIN, A.A.;  
LAVRISHCHEV, S.V.; MELIKHOV, D.I.; OSIKO, V.V.; SOBOL', A.A.; TATARINTSEV, V.M.;  
USHAKOV, S.N.; TSYMBAL, L.I..  
LASER UTILIZING ERBIUM-ACTIVATED GADOLINIUM ALUMINUM SCANDIUM GARNET  
CRYSTALS COACTIVATED WITH CR<sup>3+</sup> AND EMITTING IN THE THREE-MICRON  
WAVELENGTH REGION  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 19(9), 1147 (1989)
437. BASIEV, T. T.; DENKER, B. I.; MIROV, S. B.; OSIKO, V. V.; PARK, V. G.;  
PROKHOROV, A. M.; KERTESZ, I.; KROO, N.; FERENCZ, K..  
INTRACAVIDITY 1.05-1.15-M RADIATION CONVERSION IN LASERS BASED ON ND<sup>++</sup>.  
GLASS. LITHIUM FLUORIDE CRYSTAL WITH F<sub>2</sub>-COLOR CENTERS AND THREE-MIRROR  
RESONATOR  
ADV. SOL. ST. LASERS 5, 332 (1989)
438. CZIGANY, I; DENKER, BI; GALAGAN, BI; KERTESZ, I; KROO, N; LUPKOVICS, G;  
OSIKO, VV; SVERCHKOV, SE.  
METHOD FOR COMPENSATION OF THERMAL LENSING IN SLAB LASERS  
GLASSES FOR OPTOELECTRONICS 1128, 330-334 (1989)
439. BASIEV, TT; DERGACHEV, AY; KARASIK, AY; MASLOV, VA; OSIKO, VV.  
GENERATION OF POWERFUL PICOSECOND PULSES WITH A LARGE AXIAL INTERVAL IN  
IR AND VISIBLE SPECTRAL REGIONS  
HIGH POWER LASERS AND LASER MACHINING TECHNOLOGY 1132, 50-52 (1989)
440. BATYGOV, S.KH.; VORONKO, YU.K.; KIRYKHIN, A.A.; MARGIANI, N.G.;  
MELIKHOV, D.I.; OSIKO, V.V.; RYSKIN, N.N.; TATARINTSEV, V.M..  
X-RAY EXCITED LUMINESCENCE OF YTTRIUM-SCANDIUM-ALUMINUM GARNET  
OPTICS AND SPECTROSCOPY 67(4), 493 (1989)
441. BATYGOV, S.KH.; VORONKO, YU.K.; MARGIANA, N.G.; OSIKO, V.V.; RYSKIN,  
N.N.; STRELOV, V.I.; TIMOSHECHKIN, M.I..  
X-RAY LUMINESCENCE OF YTTRIUM-GALLIUM GARNET  
OPTICS AND SPECTROSCOPY 67(3), 360 (1989)

442. GIPPIUS, N.A.; DANILEIKO, YU.K.; IONOV, P.V.; MIROV, S.B.; MUSATOV, A.G.; OSIKO, V.V.; SIDORIN, A.V.; TULAIKOVA, T.V..  
COMBINED EFFECT OF THE BOMBARDMENT OF METAL BY TWO ND:YAG LASER BEAMS  
SOVIET PHYSICS - DOKLADY 34(10), 930 (1989)
443. KUZ'MICHEVA, G.M.; KOZLIKIN, S.N.; ZHARIKOV, E.V.; KALITIN, S.P.; OSIKO, V.V..  
AN X-RAY DIFFRACTION STUDY OF YTTRIUM SCANDIUM GALLIUM GARNETS  
RUSSIAN JOURNAL OF INORGANIC CHEMISTRY 34(6), 792 (1989)
444. OSIKO, V.V.; PROKHOROV, A.M.; SIGACHEV, V.B.; TIMOSHECHKIN, M.I..  
EFFICIENT GGG:(CR,ND) CRYSTAL LASER  
SOVIET PHYSICS - DOKLADY 34(7), 650 (1989)
445. MUHIN, B. V.; KOZLIKIN, S. N.; ZHARIKOV, E. V.; ZAGUMENNIY, A. I.; LUTE, G. B.; OSIKO, V. V.; KUZMICHEV, G. M..  
APPLICATION OF CRYSTAL-CHEMICAL APPROACH FOR DETERMINING THE COMPOSITION OF GADOLINIUM-SCANDIUM-ALUMINUM GARNETS  
RUSS. J. INORG. CHEM 34, 1129 (1989)
446. KUZMICHEVA, GM; EFREMOV, VA; KOZLIKIN, SN; ZHARIKOV, EV; KALITIN, SP; OSIKO, VV.  
X-RAY-DIFFRACTION STUDY OF RAREEARTH SCANDIUM-GALLIUM GARNETS  
ZHURNAL NEORGANICHESKOI KHIMII 33(12), 3016-3020 (1988)
447. VORONOV, VV; LAVRENTZEV, SV; OSIKO, VV; POLOZKOV, NM.  
THE GROWTH OF CATHION-DEFICIENT GARNET SHAPED CRYSTALS  
IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA 52(10), 1992-1996 (1988)
448. BUZININ, AN; ANTONOV, VA; OSIKO, VV; TATARINTHEV, VM.  
GENERAL FEATURES OF TWINNING AS OBSERVED IN SI AND A3B5 AT THEIR GROWTH FROM THE MELT  
IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA 52(10), 1889-1895 (1988)
449. KUZMICHEVA, GM; KOZLIKIN, SN; ZHARIKOV, EV; KALITIN, SP; OSIKO, VV.  
POINT-DEFECTS IN GADOLINIUM-GALLIUM GARNET  
ZHURNAL NEORGANICHESKOI KHIMII 33(9), 2200-2204 (1988)
450. BUZYNIN, AN; BUTYLKINA, NA; LUKYANOV, AE; OSIKO, VV; TATARINTSEV, VM; EIDENZON, AM.  
ELECTRICAL ACTIVE STRUCTURE OF V-G DOMAINS OF SILICON-CRYSTALS OBTAINED BY THE CHOKHRALSKII METHOD  
IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA 52(7), 1387-1390 (1988)
451. BASIEV, TT; MIROV, SB; OSIKO, VV.  
ROOM-TEMPERATURE COLOR CENTER LASERS  
IEEE JOURNAL OF QUANTUM ELECTRONICS 24(6), 1052-1069 (1988)
452. VORONKO, YK; GESSEN, SB; ESKOV, NA; OSIKO, VV; SOBOL, AA; TSYMBAL, LI.  
THERMODYNAMICS OF OPTICAL ND-3+-ION CENTERS IN CALCIUM GALLIUM GERMANIUM GARNET CRYSTALS  
INORGANIC MATERIALS 24(5), 685-690 (1988)
453. GORSHKOV, VG; DANILEIKO, YK; OSIKO, VV; SIDORIN, AV; VESELOVSKAYA, NV; DANKOVSKII, YV; SHKLYAR, BL.  
MECHANICAL MICROSTRESSES IN DISLOCATION-FREE FLOATING-ZONE SILICON MONOCRYSTALS  
PHYSICA STATUS SOLIDI A-APPLIED RESEARCH 106(2), 363-369 (1988)

454. DANILOV, AA; OSIKO, VV; PROKHOROV, AM; SHCHERBAKOV, IA.  
POTENTIALITIES OF WAVE-GUIDE ACTIVE ELEMENTS MADE OF VARIOUS MATERIALS  
FOR SOLID-STATE LASERS WITH HIGH AVERAGE POWERS  
KVANTOVAYA ELEKTRONIKA 15(3), 486-489 (1988)
455. GAMAYUNOV, KV; OSIKO, VV; TATARINTSEV, VM.  
ULTRAFast QUENCHING OF OXIDE MATERIALS  
INORGANIC MATERIALS 24(3), 287-298 (1988)
456. ALEKSANDROV, VI; BADALYAN, AG; BARANOV, PG; VIKHNIN, VS; OSIKO, VV;  
UDOVENCHIK, VT.  
MICROWAVE STUDIES OF HIGH-TEMPERATURE SUPERCONDUCTORS  
JETP LETTERS 47(3), 207-210 (1988)
457. VORONKO, YK; ERSHOVA, LM; ESKOV, NA; KUDRYAVTSEV, AB; OSIKO, VV;  
SOBOL, AA; SOROKIN, EV.  
RAMAN-SCATTERING IN GARNET SOLID-SOLUTIONS  
FIZIKA TVERDOGO TELA 30(2), 512-519 (1988)
458. BASIEV, TT; DENKER, BI; ILICHEV, NN; LARIKOV, AV; MALYUTIN, AA; OSIKO,  
VV; PASHININ, PP.  
COMPACT LASER SYSTEM ON THE NEODYMIUM GLASS  
IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA 52(2), 348-353 (1988)
459. VORONKO, YK; GESSEN, SB; ESKOV, NA; OSIKO, VV; SOBOL, AA;  
TIMOSHECHKIN, MI; USHAKOV, SN; TSYMBAL, LI.  
SPECTROSCOPIC AND LASING PROPERTIES OF CALCIUM-NIOBIUM-GALLIUM GARNET  
DOPED WITH CR-3+ AND ND-3+  
KVANTOVAYA ELEKTRONIKA 15(2), 312-317 (1988)
460. VORONKO, IK; KUDRIAVTSEV, AB; OSIKO, VV; SOBOL, AA; SOROKIN, EV;  
SPIRIDONOV, FM.  
RAMAN-STUDY OF THE OVERHEATED MELT CRYSTALLIZATION IN THE SM2O3-GA2O3  
SYSTEM  
DOKLADY AKADEMII NAUK SSSR 298(1), 87-91 (1988)
461. VORONKO, IK; KUDRIAVTSEV, AB; ESKOV, NA; OSIKO, VV; SOBOL, AA;  
SOROKIN, EV; SPIRIDONOV, FM.  
RAMAN-SCATTERING IN CRYSTALLIZED AND MOLTEN CALCIUM-NIOBIUM-GALLIUM  
GARNET  
DOKLADY AKADEMII NAUK SSSR 298(3), 604-607 (1988)
462. VORONKO, IK; GESSEN, SB; IVANOV, MA; OSIKO, VV; PAPIN, IM; SOBOL, AA;  
SOROKIN, EV; TIMOSHECHKIN, MI; USHAKOV, SN; TSIMBAL, LI.  
SPECTROSCOPIC AND LASER CHARACTERISTICS OF THE CA, MG, ZR-SUBSTITUTED  
GADOLINIUM-GALLIUM GARNET CRYSTALS DOPED WITH OHROMIUM AND  
NEODIMIUM  
DOKLADY AKADEMII NAUK SSSR 301(1), 79-83 (1988)
463. VORON'KO, YU.K.; GESSEN, S.B.; ES'KOV, N.A.; OSIKO, V.V.; SOBOL', A.A.;  
TIMOSHECHKIN, M.I.; USHAKOV, S.N.; TSYMBAL, L.I..  
SPECTROSCOPIC AND LASING PROPERTIES OF CALCIUM NIOBIUM GALLIUM GARNET  
ACTIVATED WITH CR3+ AND ND3+  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 18(2), 198 (1988)
464. DANILOV, A.A.; OSIKO, V.V.; PROKHOROV, A.M.; SHCHERBAKOV, I.A..  
POTENTIALITIES OF WAVEGUIDE ACTIVE ELEMENTS MADE OF DIFFERENT MATERIALS

- AND USED IN SOLID-STATE LASERS CHARACTERIZED BY HIGH AVERAGE POWERS  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 18(3), 307 (1988)
465. ASHUROV, M.K.; NASYROV, I.N.; OSIKO, V.V.; KHABIBULLAEV, P.K..  
BRIGHTENING IN THE UV REGION OF GSGG CRYSTALS AFTER  $\Gamma$ -IRRADIATION  
J. APPL. SPECTROSC, 48 (1988)
466. KUZ'MICHEVA, G.M.; KOZLIKIN, S.N.; ZHARIKOV, E.V.; KALITIN, S.P.; OSIKO,  
V.V..  
POINT DEFECTS IN GADOLINIUM GALLIUM GARNET  
RUSSIAN JOURNAL OF INORGANIC CHEMISTRY 33(9), 1256 (1988)
467. BASIEV, T.T.; DENKER, B.I.; IL'ICHEV, N.N.; LARIKOV, A.V.; MALYUTIN, A.A.;  
OSIKO, V.V.; PASHININ, P.P..  
A COMPACT NEODYMIUM-GLASS LASER  
CONFERENCE: FIFTH ALL-UNION CONFERENCE ON LASER OPTICS LOCATION:  
LENINGRAD, USSR DATE: JAN. 1987 52(2), 117 (1988)
468. VORON'KO, YU.K.; KUDRYAVTSEV, A.B.; OSIKO, V.V.; SOBOL', A.A.; SOROKIN,  
E.V.; SPIRIDINOV, F.M..  
RAMAN-SCATTERING STUDIES OF THE CRYSTALLIZATION OF SUPERHEATED MELTS IN  
THE SM2O3-GA2O3 SYSTEM  
SOVIET PHYSICS - DOKLADY 33(1), 61 (1988)
469. VORON'KO, YU.K.; ERSHOVA, L.M.; ES'KOV, N.A.; KUDRYAVTSEV, A.B.; OSIKO,  
V.V.; SOBOL', A.A.; SOROKIN, E.V..  
RAMAN SCATTERING OF LIGHT IN SOLID SOLUTIONS HAVING THE GARNET  
STRUCTURE  
SOVIET PHYSICS - SOLID STATE 30(2), 291 (1988)
470. VORON'KO, YU.K.; KUDRYAVTSEV, A.B.; ES'KOV, N.A.; OSIKO, V.V.; SOBOL',  
A.A.; SOROKIN, E.V.; SPIRIDONOV, F.M..  
RAMAN SCATTERING OF LIGHT IN CRYSTALS AND MELT OF CALCIUM-NIOBIUM  
GALLIUM GARNET  
SOVIET PHYSICS - DOKLADY 33(1), 70 (1988)
471. VORONKO, YU. K.; KUDRYAVTSEV, A. B.; OSIKO, V. V.; SOBOL, A. A..  
HIGH-TEMPERATURE RAMAN SCATTERING STUDY OF THE MELT STRUCTURE AND  
CRYSTALLIZATION PROCESSES  
ROST KRIST. 16, 178 (1988)
472. ALEKSANDROV, VI; BADALYAN, AG; BARANOV, PG; VIKHNIN, VS; OSIKO, VV;  
UDOVENCHIK, VT.  
MICROWAVE SPECTROSCOPY OF HIGH-TEMPERATURE SUPERCONDUCTORS  
FIZIKA TVERDOGO TELA 29(12), 3710-3713 (1987)
473. ALEKSANDROV, VI; BATYGOV, SK; VISHNYAKOVA, MA; VORONKO, YK;  
LOMONOVA, EE; MYZINA, VA; OSIKO, VV.  
CO-2+-REVERSIBLE-CO-3+ TRANSITIONS IN ZRO2-Y2O3 CRYSTALS UNDER VACUUM  
AND AIR ANNEALING  
FIZIKA TVERDOGO TELA 29(11), 3511-3513 (1987)
474. BASIEV, TT; DERGACHEV, AY; KIRPICHENKOVA, EO; ORLOVSKY, YV; OSIKO, VV.  
DIRECT NONRADIATIVE RELAXATION MEASUREMENT AND LUMINESCENCE SPECTRA  
FROM 4G7/2 G7/2 AND 4F9/2 LEVELS OF ND-3+ IONS LASER CRYSTALS LAF3, SRF2  
AND YALO3  
KVANTOVAYA ELEKTRONIKA 14(10), 2021-2023 (1987)



475. EFREMOV, VA; KUZMICHEVA, GM; KOZLIKIN, SN; ZHARIKOV, EV; KALITIN, SP; OSIKO, VV.  
X-RAY-DIFFRACTION STUDY OF GARNET GADOLINIUM-SCANDIUM-GALLIUM SAMPLES  
ZHURNAL NEORGANICHESKOI KHIMII 32(10), 2366-2369 (1987)
476. OSIKO, VV.  
ACTIVE MEDIA OF SOLID-STATE LASERS  
IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA 51(8), 1285-1294 (1987)
477. BASIEV, TT; DERGACHEV, AY; ZVEREV, PG; KONYUSHKIN, VA; LYSOI, BG; MIROV, SB; OSIKO, VV.  
PASSIVE MODULATION OF THE EFFICIENCY OF A CONTINUOUS (YAG-ND<sub>3</sub><sup>+</sup>)-LASER BY LIF-F<sub>2</sub>-CRYSTALS  
IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA 51(8), 1440-1446 (1987)
478. VORONKO, YK; ZUFAROV, MA; OSIKO, VV; SOBOL, AA.  
NEW ASPECTS OF PHASE FORMATION IN THE SYSTEMS HFO<sub>2</sub>-LN<sub>2</sub>O<sub>3</sub>  
INORGANIC MATERIALS 23(6), 854-859 (1987)
479. GUSOVSKII, DD; DIANOV, EM; MAIER, AA; NEUSTRUEV, VB; OSIKO, VV; PROKHOROV, AM; SITARSKII, KY; SHCHERBAKOV, IA.  
AN EXPERIMENTAL-OBSERVATION OF RADIATION SELF-SWITCHING IN TUNNEL-COUPLED OPTICAL WAVE-GUIDES  
KVANTOVAYA ELEKTRONIKA 14(6), 1144-1147 (1987)
480. BLINOV, AL; BORIK, MA; VORONOV, VV; GAMAYUNOV, KV; IVANOV, AV; OSIKO, VV; TATARINTSEV, VM; USTIN, AA.  
CRYSTALLIZATION OF SAMPLES IN THE SYSTEM ND<sub>2</sub>O<sub>3</sub>-WO<sub>3</sub> PREPARED WITH ULTRAHIGH COOLING RATES  
INORGANIC MATERIALS 23(6), 860-863 (1987)
481. VORONKO, YK; KUDRYAVTSEV, AB; OSIKO, VV; SOBOL, AA; SOROKIN, EV.  
RAMAN-SCATTERING STUDY OF PHASE-TRANSITIONS IN LITHIUM-NIOBATE AND TANTALLATE  
FIZIKA TVERDOGO TELA 29(5), 1348-1355 (1987)
482. BUZYNIN, AN; BUTYLKINA, NA; DEMENTEV, YS; LUKYANOV, AE; OSIKO, VV; MARKOV, VG; MASLOVA, TV; SOKOLOV, AM; TATARINTSEV, VM.  
USE OF REM FOR THE DETERMINATION OF CONDITIONS OF HETEROGENEITY FORMATION IN INDIUM-ANTIMONIDE CRYSTALS  
IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA 51(3), 418-421 (1987)
483. IVLEVA, LI; KUZMINOV, YS; OSIKO, VV; POLOZKOV, NM.  
THE GROWTH OF MULTICOMPONENT OXIDE SINGLE-CRYSTALS BY STEPANOV TECHNIQUE  
JOURNAL OF CRYSTAL GROWTH 82(1-2), 168-176 (1987)
484. ALEKSANDROV, VI; BATYGOV, SK; VISHNYAKOVA, MA; KALABUKHOVA, VF; LOMONOVA, EE; MYZINA, VA; OSIKO, VV.  
INFLUENCE OF PR<sub>2</sub>O<sub>3</sub> ON GROWTH OF ZRO<sub>2</sub> CRYSTALS IN A MELT  
INORGANIC MATERIALS 23(3), 387-390 (1987)
485. GAMAYUNOV, KV; MASLOVA, TV; OSIKO, VV; TATARINTSEV, VM.  
CRITICAL RATE OF COOLING OXIDE MELTS  
INORGANIC MATERIALS 23(2), 229-232 (1987)

486. OSIKO, VV; BORIK, MA; LOMONOVA, EE.  
CRUCIBLE-FREE METHODS OF GROWING OXIDE CRYSTALS FROM THE MELT  
ANNUAL REVIEW OF MATERIALS SCIENCE 17, 101-122 (1987)
487. GLUSHKOVA, VB; ZHARIKOV, EV; ZINOVIEV, SI; KRZHIZHANOVSKAIA, VA;  
OSIKO, VV; STUDENIKIN, PA.  
PECULIARITIES OF THE THERMAL-EXPANSION OF RARE-EARTH GALLIUM GARNETS  
DOKLADY AKADEMII NAUK SSSR 295(4), 907-910 (1987)
488. ASHUROV, MK; BATYGOV, SK; ERZIN, RA; OSIKO, VV; TATARINTSEV, VM;  
KHABIBULLAEV, PK.  
COLOR-CENTER CREATION IN HFO<sub>2</sub>-BASED SINGLE-CRYSTALS AFTER GAMMA-  
IRRADIATION AND THERMAL-TREATMENT  
DOKLADY AKADEMII NAUK SSSR 296(1), 121-123 (1987)
489. BASIEV, T.T.; DERGACHEV, A.YU.; KIRPICHENKOVA, E.O.; ORLOVSKII, YU.V.;  
OSIKO, V.V..  
DIRECT MEASUREMENT OF THE RATE OF NONRADIATIVE RELAXATION AND  
LUMINESCENCE SPECTRA FROM THE 4G<sub>7/2</sub>, 4G<sub>5/2+2G<sub>7/2</sub></sub>, AND 4F<sub>9/2</sub> LEVELS OF  
ND<sup>3+</sup> IONS IN LAF<sub>3</sub>, SRF<sub>2</sub>, AND YALO<sub>3</sub> LASER CRYSTALS  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 17(10), 1289 (1987)
490. GUSOVSKII, D.D.; DIANOV, E.M.; MAIER, A.A.; NEUSTRUEV, V.B.; OSIKO, V.V.;  
PROKHOROV, A.M.; SITARSKII, K.YU.; SHCHERBAKOV, I.A..  
EXPERIMENTAL OBSERVATION OF THE SELF-SWITCHING OF RADIATION IN TUNNEL-  
COUPLED OPTICAL WAVEGUIDES  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 17(6), 724 (1987)
491. VORONKO, YU. K.; KUDRJAVCEV, A.B.; OSIKO, V.V.; SOBOL, A.A.; SOROKIN,  
E.V..  
THE RAMAN SPECTRA OF MELTS LI<sub>2</sub>O-NB<sub>2</sub>O<sub>5</sub>  
PROCEEDINGS OF FIAI 2, 34 (1987)
492. BASIEV, T. T.; DERGACHEV, A. YU.; ZVEREV, P. G.; KONYUSHKIN, V. A.; LYSOI,  
B. G.; MIROV, S. B.; OSIKO, V. V..  
PASSIVE Q-SWITCHING WITH LiF:FI CRYSTALS IN A CONTINUOUS-WAVE YAG:ND  
LASER  
PHYS. SER. 51(8), 166 (1987)
493. ALEKSANDROV, V.I.; BADALYAN, A.G.; BARANOV, P.G.; VIKHNIN, V.S.; OSIKO,  
V.V.; UDOVENCHIK, V.T..  
MICROWAVE SPECTROSCOPY OF HIGH-TEMPERATURE SUPERCONDUCTORS  
SOVIET PHYSICS - SOLID STATE 29(12), 2123 (1987)
494. BASIEV, T.T.; DERGACHEV, A.YU.; ZVEREV, P.G.; KONYUSHKIN, V.A.; LYSOI,  
B.G.; MIROV, S.B.; OSIKO, V.V..  
PASSIVE Q SWITCHING WITH LiF:F<sub>2</sub>- CRYSTALS IN A CONTINUOUS-WAVE YAG:ND<sup>3+</sup>  
LASER  
CONFERENCE: FIFTH ALL-UNION CONFERENCE ON LASER OPTICS LOCATION:  
LENINGRAD, USSR DATE: JAN. 1987 51(8), 166 (1987)
495. VORON'KO, YU.K.; KUDRYAVTSEV, A.B.; OSIKO, V.V.; SOBOL', A.A.; SOROKIN,  
E.V..  
RAMAN SCATTERING STUDY OF PHASE TRANSITIONS IN LITHIUM NIOBATE AND  
TANTALATE  
SOVIET PHYSICS - SOLID STATE 29(5), 771 (1987)

496. GAMAYUNOV, K.; MASLOVA, T.; OSIKO, V.; TATARINTSEV, V..  
CRITICAL COOLING RATE OF OXIDE MELTS  
IZV. AKAD. NAUK SSSR, NEORG. MATER 23, 264 (1987)
497. KUDRJAVTSEV, A. B.; OSIKO, V. V.; SOBOL, A.A.; SOROKIN, E.V.; VORONKO, YU. K.  
RAMAN SPECTROSCOPY OF  $\text{Li}_2\text{O-Nb}_2\text{O}_5$  MELTS  
BULLETIN OF THE LEBEDEV PHYSICS INSTITUTE (2), 34 (1987)
498. DANILOV, AA; ZHARIKOV, EV; NIKOLSKII, MY; OSIKO, VV; PROKHOROV, AM;  
SHCHERBAKOV, IA.  
ACOUSTOOPTICAL PROPERTIES OF RARE-EARTH GALLIUM GARNETS  
PISMA V ZHURNAL TEKHNICHESKOI FIZIKI 12(23), 1409-1411 (1986)
499. ALPATEV, AN; ZHARIKOV, EV; KALITIN, SP; LAPTEV, VV; OSIKO, VV;  
OSTROUMOV, VG; PROKHOROV, AM; SAIDOV, ZS; SMIRNOV, VA; SOROKINA, IT;  
UMYSKOV, AF; SHCHERBAKOV, IA.  
LASER ACTION IN HOLMIUM IONS DUE TO THE I-7(5)-I-8(5) TRANSITION AT ROOM-  
TEMPERATURE IN THE YTTRIUM-SCANDIUM-GALLIUM GARNET CRYSTAL DOPED  
WITH CHROMIUM, THULIUM AND HOLMIUM IONS  
KVANTOVAYA ELEKTRONIKA 13(10), 2127-2129 (1986)
500. VORONOV, VV; GAMAYUNOV, KV; OSIKO, VV; TATARINTSEV, VM.  
ULTRAFast QUENCHING OF ALLOYS IN THE SYSTEM  $\text{MXOY-WO}_3$  AND  $\text{LiNbO}_3$   
INORGANIC MATERIALS 22(8), 1169-1171 (1986)
501. GLUCHKOVA, VB; KOMAROV, AV; MARKOV, NI; OSIKO, VV; TATARINTSEV,  
VM; TIKHONOV, PA.  
ELECTRICAL-PROPERTIES OF SINGLE-CRYSTALS OF SOLID-SOLUTIONS IN THE SYSTEM  
 $\text{HfO}_2\text{-M}_2\text{O}_3$  (M = SC, Y, RARE-EARTHS)  
INORGANIC MATERIALS 22(7), 987-990 (1986)
502. ZHARIKOV, EV; ILICHEV, NN; KALITIN, SP; LAPTEV, VV; MALYUTIN, AA; OSIKO,  
VV; PASHININ, PP; PROKHOROV, AM; SAIDOV, ZS; SMIRNOV, VA; UMYSKOV, AF;  
SHCHERBAKOV, IA.  
SPECTRAL-LUMINESCENT AND LASING PROPERTIES OF A CHROMIUM-DOPED AND  
ERBIUM-DOPED YTTRIUM-SCANDIUM-GALLIUM GARNET CRYSTAL  
KVANTOVAYA ELEKTRONIKA 13(5), 973-979 (1986)
503. BABUSHKIN, AV; VOROBEOV, NS; ZHARIKOV, EV; KALITIN, SP; OSIKO, VV;  
PROKHOROV, AM; SERDYUCHENKO, YN; SHCHELEV, MY; SHCHERBAKOV, IA.  
A PICOSECOND LASER UTILIZING THE  $\text{GSGG-CR}_3\text{, Nd}$  CRYSTAL  
KVANTOVAYA ELEKTRONIKA 13(3), 655-656 (1986)
504. BASIEV, TT; ZHARIKOV, EV; MIROV, SB; NATAROV, SY; OSIKO, VV; PASHININ,  
PP; PROKHOROV, AM; SHKLOVSKII, EI; SHCHERBAKOV, IA.  
A ROUND-TRIP COMPACT LASER-AMPLIFIER UTILIZING THE  $\text{GSGG-CR}_3\text{, Nd}^{3+}$   
CRYSTAL  
KVANTOVAYA ELEKTRONIKA 13(2), 412-414 (1986)
505. ASHUROV, MK; NASYROV, IN; OSIKO, VV; KHABIBULLAEV, PK.  
INVESTIGATION OF UV ABSORPTION IN  $\text{GSGG-CR}_3\text{, Nd}^{3+}$  CRYSTALS  
DOKLADY AKADEMII NAUK SSSR 289(2), 344-347 (1986)
506. IOFIS, NA; OSIKO, VV; PROKHOROV, AM; SHAMOV, AN.  
SYNTHESIS OF REFRACTORY MATERIALS IN COLD CONTAINERS  
VESTNIK AKADEMII NAUK SSSR (6), 31-36 (1986)

507. BELIANINA, RG; IEVLEVA, ZI; IOFIS, NA; OSIKO, VV; SARATOV, IM;  
TATARINTSEV, VM; SHIMKEVICH, AL; SHMATKO, BA.  
MECHANICAL DURABILITY OF FIANTIT BASED ON THE STABILIZED ZIRCONIA IN THE  
300-1800-K RANGE  
DOKLADY AKADEMII NAUK SSSR 287(3), 628-630 (1986)
508. ZHARIKOV, E.V.; IL'CHEV, N.N.; KALITIN, S.P.; LAPTEV, V.V.; MALYUTIN, A.A.;  
OSIKO, V.V.; PASHININ, P.P.; PROKHOROV, A.M.; SAIDOV, Z.S.; SMIRNOV, V.A.;  
UMYSKOV, A.F.; SHCHERBAKOV, I.A..  
SPECTRAL, LUMINESCENCE, AND LASING PROPERTIES OF A YTTRIUM SCANDIUM  
GALLIUM GARNET CRYSTAL ACTIVATED WITH CHROMIUM AND ERBIUM  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 16(5), 635 (1986)
509. BASIEV, T.T.; ZHARIKOV, E.V.; MIROV, S.B.; NATAROV, S.YU.; OSIKO, V.V.;  
PASHININ, P.P.; PROKHOROV, A.M.; SHKLOVSKII, E.I.; SHCHERBAKOV, I.A..  
TWO-PASS COMPACT LASER AMPLIFIER MADE OF A GADOLINIUM SCANDIUM  
GALLIUM GARNET CRYSTAL DOPED WITH CR<sup>3+</sup> AND ND<sup>3+</sup>  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 16(2), 269 (1986)
510. BABUSHKIN, A.V.; VOROB'EV, N.S.; ZHARIKOV, E.V.; KALITIN, S.P.; OSIKO,  
V.V.; PROKHOROV, A.N.; SERDYUCHENKO, YU.N.; SHCHELEV, M.YA.; SHCHERBAKOV,  
I.A..  
PICOSECOND LASER MADE OF GADOLINIUM SCANDIUM GALLIUM GARNET CRYSTAL  
DOPED WITH CR AND ND  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 16(3), 428 (1986)
511. ALLAT'EV, A.N.; ZHARIKOV, E.V.; KALITIN, S.P.; LAPTEV, V.V.; OSIKO, V.V.;  
OSTROUMOV, V.G.; PROKHOROV, A.M.; SAIDOV, Z.S.; SMIRNOV, V.A.; SOROKINA,  
I.T.; UMYSKOV, A.F.; SHCHERBAKOV, I.A..  
LASING OF HOLMIUM IONS AS A RESULT OF THE 5I7RARR5I8 TRANSITION AT ROOM  
TEMPERATURE IN AN YTTRIUM SCANDIUM GALLIUM GARNET CRYSTAL ACTIVATED  
WITH CHROMIUM, THULIUM, AND HOLMIUM IONS  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 16(10), 1404 (1986)
512. ASHUROV, M.KH.; NASTYROV, I.N.; OSIKO, V.V.; KHABIBULLAEV, P.K..  
STUDY OF UV ABSORPTION IN GSGG:CR<sup>3+</sup> CRYSTALS  
SOVIET PHYSICS - DOKLADY 31(7), 564 (1986)
513. VORONOV, VV; ZUFAROV, MA; LAVRISHCHEV, SV; MARKOV, NI;  
MIFTYAKHETDINOVA, NR; OSIKO, VV; TATARINTSEV, VM.  
GROWTH OF HAFNIUM DIOXIDE-BASED SINGLE-CRYSTALS  
INORGANIC MATERIALS 21(10), 1491-1494 (1985)
514. GORASHCHENKO, NG; IVANOVSKAYA, VI; MAIER, AA; MARKOV, NI;  
MIFTYAKHETDINOVA, NR; MYZINA, VA; OSIKO, VV; TATARINTSEV, VM.  
PROPERTIES OF SOLID-SOLUTION SINGLE-CRYSTALS IN HFO<sub>2</sub>-Y<sub>2</sub>O<sub>3</sub>, HFO<sub>2</sub>-RARE  
EARTHS 2O<sub>3</sub> SYSTEMS  
INORGANIC MATERIALS 21(9), 1323-1326 (1985)
515. BALAGINA, GM; BANISHEV, AF; VORONKO, YK; OSIKO, VV; SOBOL, AA;  
CHUDINOVA, NN.  
STUDY OF PHASE-TRANSITIONS IN A SERIES OF POLYPHOSPHATES OF RARE-EARTH-  
METALS LN(PO<sub>3</sub>)<sub>3</sub> BY THE METHOD OF RAMAN-SCATTERING OF LIGHT  
INORGANIC MATERIALS 21(5), 618-625 (1985)

516. VORONKO, IK; KUDRIAVTSEV, AB; OSIKO, VV; SOBOL, AA; SPIRIDONOV, FM.  
RAMAN-SCATTERING STUDY OF CRYSTALLINE AND MELT GERMANATES  
DOKLADY AKADEMII NAUK SSSR 283(6), 1333-1336 (1985)
517. ASHUROV, MK; ZHARIKOV, EV; LAPTEV, VV; NASYROV, IN; OSIKO, VV;  
PROKHOROV, AM; KHABIBULLAEV, PK; SHCHERBAKOV, IA.  
INFLUENCE OF CHROMIUM IONS ON THE COLOR CENTER FORMATION IN CRYSTALS  
WITH GARNET STRUCTURE  
DOKLADY AKADEMII NAUK SSSR 282(5), 1104-1106 (1985)
518. BERZINA, GD; BORIK, MA; BUZHINSKII, IM; DENKER, BI; GULYAMOVA, ES;  
ILICHEV, NN; KORYAGINA, EI; MALYUTIN, AA; OSIKO, VV; PASHININ, PP; SURKOV, VF.  
COMPARATIVE TESTS OF LASING CHARACTERISTICS OF CERTAIN BRANDS OF LASER  
NEODYMIUM GLASSES  
KVANTOVAYA ELEKTRONIKA 12(4), 694-697 (1985)
519. ZHARIKOV, EV; LAPTEV, VV; NATAROV, SY; OSIKO, VV; PASHININ, PP;  
PROKHOROV, AM; SHKLOVSKII, EI; SHCHERBAKOV, IA.  
AMPLIFICATION OF MONOPULSES BY THE GSGG-CR3+, ND3+-CRYSTAL  
KVANTOVAYA ELEKTRONIKA 12(11), 2198-2199 (1985)
520. ASHUROV, M.KH.; ZARIKOV, E.V.; LAPTEV, V.V.; NASYROV, I.N.; OSIKO, V.V.;  
PROKHOROV, A.M.; KHABIBULLAEV, P.K.; SHCHERBAKOV, I.A..  
EFFECT OF CHROMIUM IONS ON THE FORMATION OF COLOR CENTERS IN CRYSTALS  
WITH THE GARNET STRUCTURE  
SOVIET PHYSICS - DOKLADY 30(6), 490 (1985)
521. GAMAIUNOV, KV; OSIKO, VV; TATARINTSEV, VM.  
THERMAL CONDITIONS OF GLASS-FORMING OF OXIDE MATERIALS UNDER  
ULTRARAPID QUENCHING CONDITIONS  
DOKLADY AKADEMII NAUK SSSR 279(4), 912-915 (1984)
522. GAMAIUNOV, KV; OSIKO, VV; TATARINTSEV, VM.  
PRODUCTION AND PROPERTIES OF THE GLASS-LIKE TUNGSTATE SYSTEMS M2O-  
WO3, MO-WO3, M2O3-WO3  
DOKLADY AKADEMII NAUK SSSR 277(6), 1426-1430 (1984)
523. BANISHEV, AF; VORONKO, IK; OSIKO, VV; SOBOL, AA.  
RAMAN-SCATTERING IN MELTS OF ALKALI-METAL PHOSPHATES  
DOKLADY AKADEMII NAUK SSSR 274(3), 559-561 (1984)
524. ALEKSANDROV, VI; BATYGOV, SK; VISHNYAKOVA, MA; VORONKO, YK;  
KALABUKHOVA, VF; LAVRISHCHEV, SV; LOMONOVA, EE; MYZINA, VA; OSIKO, VV.  
COMPOSITION AND THERMAL TREATING EFFECT ON CHARGE STATES OF INTRINSIC  
AND IMPURITY DEFECTS IN ZRO2-Y2O3 SOLID-SOLUTIONS  
FIZIKA TVERDOGO TELA 26(5), 1313-1318 (1984)
525. ZHARIKOV, EV; KITAEVA, VF; OSIKO, VV; RUSTAMOV, IR; SOBOLEV, NN.  
ELASTIC, PHOTOELASTIC AND THERMO-PHYSICAL CHARACTERISTICS OF GD-SC-GA  
GARNET  
FIZIKA TVERDOGO TELA 26(5), 1517-1519 (1984)
526. ZHARIKOV, EV; LAPTEV, VV; MAIER, AA; OSIKO, VV.  
COMPETITION OF CATIONS IN OCTAHEDRAL SITES OF GALLIUM GARNETS  
INORGANIC MATERIALS 20(6), 857-862 (1984)
527. ZHARIKOV, EV; OSIKO, VV; PROKHOROV, AM; SHCHERBAKOV, IA.  
CRYSTALS OF RARE-EARTH GALLIC GARNETS WITH CHROMIUM AS ACTIVE MEDIA

- FOR SOLID-STATE LASERS  
IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA 48(7), 1330-1342 (1984)
528. ASHUROV, MK; ZHARIKOV, EV; LAPTEV, VV; NASYROV, IN; OSIKO, VV;  
PROKHOROV, AM; KHABIBULLAEV, PK; SHCHERBAKOV, IA.  
EFFECT OF CHROMIUM AND NEODYMIUM IONS ON THE FORMATION OF COLOR-  
CENTERS IN GADOLINIUM-SCANDIUM-GALLIC GARNET CRYSTALS  
IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA 48(7), 1343-1345 (1984)
529. ZHARIKOV, EV; ILICHEV, NN; KALITIN, SP; LAPTEV, VV; MALYUTIN, AA; OSIKO,  
VV; OSTROUMOV, VG; PASHININ, PP; PROKHOROV, AM; SMIRNOV, VA; UMYSKOV,  
AF; SHCHERBAKOV, IA.  
COLOR AND ABSORPTION CENTERS FROM AN EXCITED CR<sup>3+</sup> STATE IN A  
GADOLINIUM-SCANDIUM-GALLIC GARNET CRYSTAL  
IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA 48(7), 1354-1358 (1984)
530. ASHUROV, MK; BASIEV, TT; BURSHTAIN, AI; VORONKOV, YK; OSIKO, VV.  
DIFFUSIVE DELOCALIZATION OF ELECTRONIC EXCITATIONS THROUGH A DISORDERED  
SYSTEM OF CENTERS  
JETP LETTERS 40(3), 841-844 (1984)
531. KAZAKOV, YV; KUZMINOV, YS; OSIKO, VV; POLOZKOV, NM.  
INVESTIGATION OF THE SINGLE-CRYSTAL GROWTH OF SOLID-SOLUTION BAXSR1-  
XNB2O6-CE BY THE CHOKHRALSKI-STEPANOV METHOD  
KRISTALLOGRAFIYA 29(3), 576-580 (1984)
532. ZABOLOTNAYA, NV; OSIKO, VV; RANDOSHKIN, VV; SIGACHEV, VB;  
TIMOSHECHKIN, MI.  
(BI,TM)<sub>3</sub>(FE,GA)<sub>50</sub>12 FILMS WITH HIGH-SPEED MOVEMENT OF DOMAIN-WALLS  
PISMA V ZHURNAL TEKHNIЧЕСКОИ ФИЗИКИ 10(13), 788-792 (1984)
533. OSIKO, VV; RANDOSHKIN, VV; SIGACHEV, VB; TIMOSHECHKIN, MI.  
CONTROL REPTATION OF DOMAIN-WALLS IN FERRITE GARNET-FILMS  
ZHURNAL TEKHNIЧЕСКОИ ФИЗИКИ 54(12), 2423-2425 (1984)
534. IVANOV, MA; OSIKO, VV; PAPIN, YM; RANDOSHKIN, VV; ROGOZHIN, YD;  
TIMOSHECHKIN, MI.  
FERRITE-GARNET FILMS WITH THE SUB-MICRON CMD ON SAMARIUM-GALLIUM  
GARNET SUPPORT  
PISMA V ZHURNAL TEKHNIЧЕСКОИ ФИЗИКИ 10(24), 1497-1500 (1984)
535. DUROSOVA, IA; ZIUZIN, AM; KUDELKIN, NN; LIUFACHUN, MA; OSIKO, VV;  
RANDOSHKIN, VV; TELESNIN, RV; TIMOSHECHKIN, MI.  
STUDY OF ION-IMPLANTED BUBBLE GARNET-FILMS  
DOKLADY AKADEMII NAUK SSSR 277(2), 363-366 (1984)
536. VORONOV, VV; OSIKO, AV; OSIKO, VV; PROKHOROV, AM.  
QUASI-CRYSTALS  
DOKLADY AKADEMII NAUK SSSR 276(4), 870-873 (1984)
537. OSIKO, V. V.; VORONKO, YU. K.; SOBOL, A. A.; FREYHARDT, H. C..  
SPECTROSCOPIC INVESTIGATION OF DEFECT STRUCTURES AND STRUCTURAL  
TRANSFORMATIONS IN IONIC CRYSTALS  
PUBLISHER: SPRINGER-VERLAG, HEIDELBERG, BERLIN 10, 38 (1984)
538. ALEKSANDROV, V.I.; BATYGOV, S.KH.; VISHNYAKOVA, M.A.; VORON'KO,  
YU.K.; KALABUKHOVA, V.F.; LAVRISHCHEV, S.V.; LOMONOVA, E.E.; MYZINA, V.A.;  
OSIKO, V.V..  
INFLUENCE OF COMPOSITION AND HEAT TREATMENT ON CHARGE STATES OF

- INTRINSIC AND IMPURITY DEFECTS IN ZRO<sub>2</sub>-Y<sub>2</sub>O<sub>3</sub> SOLID SOLUTIONS  
SOVIET PHYSICS - SOLID STATE 26(5), 799 (1984)
539. ASHUROV, M.KH.; ZHARIKOV, E.V.; LAPTEV, V.V.; NASYROV, I.N.; OSIKO, V.V.;  
PROKHOROV, A.M.; KHABIBULLAEV, P.K.; SHCHERBAKOV, I.A..  
EFFECT OF CHROMIUM AND NEODYMIUM IONS ON THE FORMATION OF COLOR  
CENTERS IN GADOLINIUM-SCANDIUM-GALLIUM GARNET CRYSTALS  
CONFERENCE: PROCEEDINGS OF THE ALL-UNION CONFERENCE ON 'LASER  
OPTICS' LOCATION: LENINGRAD, USSR DATE: 13-18 JAN. 1984 48(7), 95 (1984)
540. BANISHEV, A.F.; VORON'KO, YU.K.; OSIKO, V.V.; SOBOL', A.A..  
RAMAN SCATTERING OF LIGHT IN MELTS OF ALKALI-METAL PHOSPHATES  
SOVIET PHYSICS - DOKLADY 29(1), 50 (1984)
541. KAZAKOV, YU.V.; KUZ'MINOV, YU.S.; OSIKO, V.V.; POLOZKOV, N.M..  
GROWTH OF SINGLE CRYSTALS OF THE SOLID SOLUTION BAXSR1-XNB2O6:CE BY THE  
CZOCHELSKI AND STEPANOV METHODS  
SOVIET PHYSICS - CRYSTALLOGRAPHY 29(3), 343 (1984)
542. OSIKO, V.V.; RANDOSHKIN, V.V.; SIGACHEV, V.B.; TIMOSHECHKIN, M.I..  
CONTROL OF DOMAIN WALL CREEP IN FERRITE-GARNET FILMS  
SOVIET PHYSICS - TECHNICAL PHYSICS 29(12), 1433 (1984)
543. ZABOLOTNAYA, N.V.; OSIKO, V.V.; RANDOSHKIN, V.V.; SIGACHEV, V.B.;  
TIMOSHECHKIN, M.I..  
(BI, TM)<sub>3</sub>(FE, GA)<sub>50</sub>12 FILMS WITH RAPIDLY MOVING DOMAIN WALLS  
SOVIET TECHNICAL PHYSICS LETTERS 10(7), 331 (1984)
544. ZHARIKOV, E.V.; OSIKO, V.V.; PROKHOROV, A.M.; SHCHERBAKOV, I.A..  
CRYSTALS OF RARE-EARTH GALLIUM GARNETS WITH CHROMIUM AS ACTIVE MEDIA  
FOR SOLID-STATE LASERS  
CONFERENCE: PROCEEDINGS OF THE ALL-UNION CONFERENCE ON 'LASER  
OPTICS' LOCATION: LENINGRAD, USSR DATE: 13-18 JAN. 1984 48(7), 81 (1984)
545. ZHARIKOV, E.V.; IL'ICHEV, N.N.; KALITIN, S.P.; LAPTEV, V.V.; MALYUTIN, A.A.;  
OSIKO, V.V.; OSTROUMOV, V.G.; PASHININ, P.P.; PROKHOROV, A.M.; SMIRNOV, V.A.;  
UMYSKOV, A.F.; SHCHERBAKOV, I.A..  
COLOR CENTERS AND ABSORPTION FROM CR<sup>3+</sup> EXCITED STATE IN A GSGG CRYSTAL  
CONFERENCE: PROCEEDINGS OF THE ALL-UNION CONFERENCE ON 'LASER  
OPTICS' LOCATION: LENINGRAD, USSR DATE: 13-18 JAN. 1984 48(7), 106 (1984)
546. ZHARIKOV, E.V.; KITAEVA, V.F.; OSIKO, V.V.; RUSTAMOV, I.R.; SOBOLEV, N.N..  
ELASTIC, PHOTOELASTIC, AND THERMOPHYSICAL PROPERTIES OF GADOLINIUM  
SCANDIUM GALLIUM GARNET  
SOVIET PHYSICS - SOLID STATE 26(5), 922 (1984)
547. IVLEVA, LI; KUZMINOV, IS; OSIKO, VV; POLOZKOV, NM; PROKHOROV, AM.  
GROWTH OF SINGLE-CRYSTAL PLATES OF COMPLICATED OXIDE COMPOUNDS BY THE  
STEPANOV METHOD  
DOKLADY AKADEMII NAUK SSSR 268(1), 69-72 (1983)
548. ALEKSANDROV, VI; VISHNYAKOVA, MA; VORONKO, YK; KALABUKHOVA, VF;  
LOMONOVA, EE; MYZINA, VA; OSIKO, VV.  
GROWING OF SRTIO<sub>3</sub> SINGLE-CRYSTALS BY CZOCHELSKI METHOD FROM A COLD  
CONTAINER  
INORGANIC MATERIALS 19(1), 88-91 (1983)
549. ALEKSANDROV, VI; BATYGOV, SK; VISHNYAKOVA, MA; VORONKO, YK;  
KALABUKHOVA, VF; LOMONOVA, EE; OSIKO, VV.

- OPTICAL-PROPERTIES OF STRONTIUM-TITANATE CRYSTALS GROWN BY THE CZOCHRALSKI METHOD FROM A COLD CONTAINER  
INORGANIC MATERIALS 19(2), 238-242 (1983)
550. VORONKO, YK; KABACHENKO, VY; KRYSANOVA, LI; OSIKO, VV; SOBOL, AA; TOMOSHECHKIN, MI.  
SPECTROSCOPY OF ND-3+ ACTIVATOR CENTERS IN CALCIUM-GALLIUM-GERMANIUM GARNET SINGLE-CRYSTALS  
INORGANIC MATERIALS 19(6), 863-868 (1983)
551. ZHARIKOV, EV; ILICHYOV, NN; KALITIN, SP; LAPTEV, VV; MALYUTIN, AA; OSIKO, VV; OSTROUMOV, VG; PASHININ, PP; PROKHOROV, AM; SMIRNOV, VA; UMYSKOV, AF; SHCHERBAKOV, IA.  
A TUNABLE LASER UTILIZING GADOLINIUM-SCANDIUM-GALLIUM GARNET CRYSTALS OPERATING ON THE ELECTRON-VIBRATIONAL TRANSITION IN CHROMIUM  
KVANTOVAYA ELEKTRONIKA 10(9), 1916-1919 (1983)
552. ZHARIKOV, EV; ZHITKOVA, MB; ZVEREV, GM; ISAEV, MP; KALITIN, SP; KURATEV, II; KUSHNIR, VR; LAPTEV, VV; OSIKO, VV; PASHKOV, VA; PIMENOV, AS; PROKHOROV, AM; SMIRNOV, VA; STELMAKH, MF; SHESTAKOV, AV; SHCHERBAKOV, IA.  
EMISSION CHARACTERISTICS OF A REPETITIVELY PULSED GADOLINIUM-SCANDIUM-GALLIUM-GARNET LASER  
KVANTOVAYA ELEKTRONIKA 10(10), 1961-1963 (1983)
553. AVANESOV, AG; BASIEV, TT; VORONKO, YK; DENKER, BI; MAKSIMOVA, GV; MYZINA, VA; OSIKO, VV; FYODOROV, VS.  
INVESTIGATION OF THE SPATIAL-DISTRIBUTION OF IMPURITIES IN SOLIDS BY KINETIC LUMINESCENT SPECTROSCOPY  
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 84(3), 1028-1042 (1983)
554. GLUSHKOVA, VB; MARKOV, NI; OSIKO, VV; TATARINTSEV, VM; TIKHONOV, PA.  
FORMATION AND INVESTIGATION OF SINGLE-CRYSTALS OF SOLID-SOLUTIONS IN THE HFO<sub>2</sub>-Y<sub>2</sub>O<sub>3</sub> SYSTEM  
INORGANIC MATERIALS 19(10), 1494-1498 (1983)
555. OSIKO, VV.  
CRUCIBLE-FREE METHODS OF GROWING-CRYSTALS FROM THE MELT  
JOURNAL OF CRYSTAL GROWTH 65(1-3), 235-236 (1983)
556. AVANESOV, AG; DENKER, BI; MAKSIMOVA, GV; OSIKO, VV; PIRUMOV, SS.  
SPECTRAL LUMINESCENCE PROPERTIES OF NEODYMIUM-ACTIVATED LANTHANUM GALLIUM OXYSULFIDE GLASSES  
INORGANIC MATERIALS 19(7), 1066-1068 (1983)
557. ALEKSANDROV, VI; ABRAMOV, NA; VISHNYAKOVA, MA; KALABUKHOVA, VF; LOMONOVA, EE; MIFTYAKHETDINOVA, NR; OSIKO, VV.  
HIGH-TEMPERATURE DISPROPORTIONATION OF FIANITES  
INORGANIC MATERIALS 19(1), 84-87 (1983)
558. ZHARIKOV, E.V.; IL'CHEV, N.N.; KALITIN, S.P.; LAPTEV, V.V.; MALYUTIN, A.A.; OSIKO, V.V.; OSTROUMOV, V.G.; PASHININ, P.P.; PROKHOROV, A.M.; SMIRNOV, V.A.; UMYSKOV, A.F.; SHCHERBAKOV, I.A..  
TUNABLE LASER UTILIZING AN ELECTRONIC-VIBRATIONAL TRANSITION IN CHROMIUM IN A GADOLINIUM SCANDIUM GALLIUM GARNET CRYSTAL  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 13(9), 1274 (1983)



559. ZHARIKOV, E.V.; ZHITKOVA, M.B.; ZVEREV, G.M.; ISAEV, M.P.; KALITIN, S.P.; KURATEV, I.I.; KUSHNIR, V.R.; LAPTEV, V.V.; OSIKO, V.V.; PASHKOV, V.A.; PIMENOV, A.S.; PROKHOROV, A.M.; SMIRNOV, V.A.; STEL'MAKH, M.F.; SHESTAKOV, A.M.; SHCHERBAKOV, I.A..  
OUTPUT CHARACTERISTICS OF A GADOLINIUM SCANDIUM GALLIUM GARNET LASER OPERATING IN THE PULSE-PERIODIC REGIME  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 13(10), 1306 (1983)
560. ALEKSANDROV, V. I.; VISHNYAKOVA, M. A.; VORON'KO, YU. K.; KALABUKHOVA, V. F.; LOMONOVA, E. E.; MYZINA, V. A.; OSIKO, V. V..  
GROWTH OF SrTiO<sub>3</sub> SINGLE CRYSTALS BY CZOCHRALSKI'S METHOD FROM A COLD CONTAINER  
IZV. AKAD. NAUK SSSR, NEORG. MATER. 19, 104 (1983)
561. AVANESOV, A.G.; BASIEV, T.T.; VORON'KO, YU.K.; DENKER, B.I.; MAKSIMOVA, G.C.; MYZINA, V.A.; OSIKO, V.V.; FEDOROV, V.S..  
INVESTIGATION OF SPATIAL DISTRIBUTION OF IMPURITIES IN SOLIDS BY THE METHOD OF KINETIC LUMINESCENT SPECTROSCOPY  
SOVIET PHYSICS - JETP 57(3), 596 (1983)
562. IVLEVA, L.I.; KYZ'MINOV, YU.S.; OSIKO, V.V.; POLOZKOV, N.M.; PROKHOROV, A.M..  
GROWTH OF SINGLE-CRYSTAL PLATES OF COMPLEX OXIDE COMPOUNDS BY THE STEPANOV METHOD  
SOVIET PHYSICS - DOKLADY 28(1), 26 (1983)
563. ZHARIKOV, E.V.; ZOLOT'KO, A.S.; KITAEVA, V.F.; LAPTEV, V.V.; OSIKO, V.V.; SOBOLEV, N.N.; SYCHEV, I.A..  
MEASUREMENT OF ELASTIC AND PHOTOELASTIC CONSTANTS OF THE GARNET {La<sub>2</sub>Nd<sub>0.3</sub>Lu<sub>0.7</sub>}Lu<sub>2</sub>Ga<sub>3</sub>O<sub>12</sub>  
SOVIET PHYSICS - SOLID STATE 25(4), 568 (1983)
564. OSIKO, VV; SHIMKEVICH, AL; SHMATKO, BA.  
ELECTRONIC MODEL OF THE PHANITES  
DOKLADY AKADEMII NAUK SSSR 267(2), 351-354 (1982)
565. VORONKO, YK; OSIKO, VV; SHCHERBAKOV, IA.  
LUMINESCENCE OF LASER CRYSTALS  
IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA 46(5), 970-978 (1982)
566. BASIEV, TT; VORONKO, YK; MIROV, SB; OSIKO, VV; PROKHOROV, AM.  
SOLID-STATE RETUNABLE LASERS ON COLORING CENTERS IN ION CRYSTALS  
IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA 46(8), 1600-1610 (1982)
567. BANISHEV, AF; VORONKO, YK; KUDRYAVSTEV, AB; OSIKO, VV; SOBOL, AA.  
HIGH-TEMPERATURE INVESTIGATIONS OF RAMAN-SPECTRA OF CALCIUM TUNGSTATE IN CRYSTALLINE AND MELTED STATES  
KRISTALLOGRAFIYA 27(3), 618-620 (1982)
568. AVANESOV, AG; DENKER, BI; OSIKO, VV; OSTROUMOV, VG; SAKUN, VP; SMIRNOV, VA; SHCHERBAKOV, IA.  
RADIATION SENSITIZATION AND ITS USE TO IMPROVE EFFICIENCY OF SOLID-STATE LASER ACTIVE MEDIA  
KVANTOVAYA ELEKTRONIKA 9(4), 681-688 (1982)
569. BASIEV, TT; VORONKO, YK; MIROV, SB; OSIKO, VV; PROKHOROV, AM.  
EFFICIENT PASSIVE Q-SWITCHES OF NEODYMIUM LASERS UTILIZING LiF:F<sup>2+</sup>-

- CRYSTALS  
KVANTOVAYA ELEKTRONIKA 9(4), 837-839 (1982)
570. AVANESOV, AG; DENKER, BI; OSIKO, VV; PIRUMOV, SS; SAKUN, VP; SMIRNOV, VA; SHCHERBAKOV, IA.  
KINETICS OF NONRADIATIVE RELAXATION FROM THE NEODYMIUM UPPER LASER LEVEL IN THE Y<sub>3</sub>AL<sub>5</sub>O<sub>11</sub> CRYSTAL  
KVANTOVAYA ELEKTRONIKA 9(6), 1180-1185 (1982)
571. BASIEV, TT; DENKER, BI; ILICHYOV, NN; MALYUTIN, AA; MIROV, SB; OSIKO, VV; PASHININ, PP.  
A PASSIVELY Q-SWITCHED LASER UTILIZING CONCENTRATED LI-ND-LA PHOSPHATE-GLASS  
KVANTOVAYA ELEKTRONIKA 9(8), 1536-1542 (1982)
572. BASIEV, TT; VORONKO, YK; MIROV, SB; OSIKO, VV; PROKHOROV, AM; SOSKIN, MS; TARANENKO, VB.  
EFFICIENT TUNABLE LASERS UTILIZING LiF-F<sub>2</sub>- CRYSTALS  
KVANTOVAYA ELEKTRONIKA 9(8), 1741-1743 (1982)
573. DENKER, BI; ILICHYOV, NN; MALYUTIN, AA; OSIKO, VV; PASHININ, PP; RASPOPOV, SF; SUKHODOLSKII, AT.  
THE SPECTRAL STRUCTURE OF THE RADIATION EMITTED FROM A LASER UTILIZING CONCENTRATED LI-ND-LA PHOSPHATE-GLASS WITH THE Q-SWITCH USING LiF(F<sub>2</sub>-) CRYSTALS  
KVANTOVAYA ELEKTRONIKA 9(9), 1842-1843 (1982)
574. ZHARIKOV, EV; ZHITNYUK, VA; ZVEREV, GM; KALITIN, SP; KURATEV, II; LAPTEV, VV; ONISHCHENKO, AM; OSIKO, VV; PASHKOV, VA; PIMENOV, AS; PROKHOROV, AM; SMIRNOV, VA; STELMAKH, MF; SHESTAKOV, AV; SHCHERBAKOV, IA.  
ACTIVE MEDIA FOR HIGH-EFFICIENCY NEODYMIUM LASERS WITH NON-SELECTIVE PUMPING  
KVANTOVAYA ELEKTRONIKA 9(12), 2531-2533 (1982)
575. DENKER, BI; OSIKO, VV; PASHININ, PP; PROKHOROV, AM.  
LASER GLASSES WITH HIGH-CONCENTRATION OF NEODYMIUM  
VESTNIK AKADEMII NAUK SSSR (6), 75-81 (1982)
576. ASHUROV, MK; VORONKO, YK; OSIKO, VV; SOBOL, AA.  
REVERSIBLE NONRADIATIVE ENERGY-TRANSFER IN A SYSTEM OF STRONGLY INTERACTING PARTICLES  
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 83(3), 922-932 (1982)
577. BUZNYAKOVA, OK; IVLEVA, LI; KUZMINOV, YS; OSIKO, VV.  
GROWTH AND INVESTIGATION OF Ca<sub>3</sub>(VO<sub>4</sub>)<sub>2</sub>  
INORGANIC MATERIALS 18(11), 1612-1615 (1982)
578. KUZMINOV, YS; OSIKO, VV; SILVERSTOVA, IV; CHUSOVITINA, OK.  
OPTICAL AND LASING PROPERTIES OF BARIUM-SODIUM NIOBATE CRYSTALS OF DIFFERENT COMPOSITIONS  
KVANTOVAYA ELEKTRONIKA 9(7), 1491-1493 (1982)
579. VETROGON, CI; DANILENKO, VK; KABACHENKO, VY; OSIKO, VV; PROKHOROV, AM; TERENCEVSKII, AN; TIMOSHECHKIN, MI.  
CR-3+ ELECTRON-PARAMAGNETIC-RES SPECTRA IN YIG  
FIZIKA TVERDOGO TELA 24(3), 771-775 (1982)

580. AVANESOV, A.G.; DENKER, B.I.; OSIKO, V.V.; OSTROUMOV, V.G.; SAKUN, V.P.; SMIRNOV, V.A.; SHCHERBAKOV, I.A..  
LUMINESCENCE SENSITIZATION AND ITS APPLICATION TO ENHANCE THE EFFICIENCY OF SOLID-STATE LASER ACTIVE MEDIA  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 12(4), 421 (1982)
581. BASIEV, T.T.; VORON'KO, YU.K.; MIROV, S.B.; OSIKO, V.V.; PROKHOROV, A.M..  
EFFICIENT PASSIVE SWITCHES FOR NEODYMIUM LASERS MADE OF LIF:F3- CRYSTALS  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 12(4), 530 (1982)
582. BASIEV, T.T.; VORON'KO, YU.K.; MIROV, S.B.; OSIKO, V.V.; PROKHOROV, A.M.; SOSKIN, M.S.; TARANENKO, V.B..  
EFFICIENT TUNABLE LIF:F2- CRYSTAL LASERS  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 12(8), 1125 (1982)
583. DENKER, B.I.; IL'ICHEV, N.N.; MALYUTIN, A.A.; OSIKO, V.V.; PASHININ, P.P.; RASPOPOV, S.F.; SUKHODOL'SKII, A.T..  
SPECTRAL COMPOSITION OF THE RADIATION EMITTED FROM A CONCENTRATED LINDLA PHOSPHATE GLASS LASER WITH A Q SWITCH MADE OF AN LIF CRYSTAL WITH F2- CENTERS  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 12(9), 1187 (1982)
584. AVANESOV, A.G.; DENKER, B.I.; OSIKO, V.V.; PIRUMOV, S.S.; SAKUN, V.P.; SMIRNOV, V.A.; SHCHERBAKOV, I.A..  
KINETICS OF NONRADIATIVE RELAXATION FROM THE UPPER ACTIVE LEVEL OF NEODYMIUM IN A Y3AL5O12 CRYSTAL  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 12(6), 744 (1982)
585. BUZNYAKOVA, O.K.; IVLEVA, L.I.; KUZ'MINOV YU, S.; OSIKO, V.V..  
GROWTH AND INVESTIGATION OF THE CA3(VO4) CRYSTAL  
INORG. MATER. 18, 1875 (1982)
586. KUZ'MINOV, YU.S.; OSIKO, V.V.; SIL'VERSTOVA, I.V.; CHUSOVITINA, O.K..  
OPTICAL AND HARMONIC GENERATION PROPERTIES OF BARIUM SODIUM NIOBATE CRYSTALS OF DIFFERENT COMPOSITIONS  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 12(7), 953 (1982)
587. ASHUROV, M.KH.; VORON'KO, YU.K.; OSIKO, V.V.; SOBOL', A.A..  
REVERSIBLE NONRADIATIVE EXCITATION-ENERGY TRANSFER IN A SYSTEM OF STRONGLY INTERACTING PARTICLES  
SOVIET PHYSICS - JETP 56(3), 519 (1982)
588. BANISHEV, A.F.; VORON'KO, YU.K.; KUDRYAVTSEV, A.B.; OSIKO, V.V.; SOBOL', A.A..  
HIGH-TEMPERATURE RAMAN SPECTRA OF CALCIUM TUNGSTATE IN THE CRYSTALLINE AND FUSED STATES  
SOVIET PHYSICS - CRYSTALLOGRAPHY 27(3), 374 (1982)
589. BASIEV, G.G.; DENKER, B.I.; IL'ICHEV, N.N.; MALYUTIN, A.A.; MIROV, S.B.; OSIKO, V.V.; PASHININ, P.P..  
PASSIVELY Q-SWITCHED LASER UTILIZING CONCENTRATED LI-ND-LA PHOSPHATE GLASS  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 12(8), 984 (1982)
590. KARLOV, NV; KUZMIN, GP; KUZMINOV, YS; KURITZIN, BA; OSIKO, VV; PROKHOROV, AM.  
FAST-RESPONSE PYROELECTRIC DETECTOR BASED ON BA0.25SR0.75NB2O6

- CRYSTALS  
FERROELECTRICS 33(1-4), 223-230 (1981)
591. BASIEV, TT; VORONKO, YK; KIRPICHENKOVA, EO; MIROV, SB; OSIKO, VV;  
SOSKIN, MS; TARANENKO, VB.  
A TUNABLE LASER UTILIZING LIF-F<sub>2</sub>(+) COLOR-CENTERS WITH A HOLOGRAPHIC  
SELECTOR  
KVANTOVAYA ELEKTRONIKA 8(2), 419-421 (1981)
592. DENKER, BI; OSIKO, VV; PASHININ, PP; PROKHOROV, AM.  
CONCENTRATED NEODYMIUM LASER GLASSES  
KVANTOVAYA ELEKTRONIKA 8(3), 469-483 (1981)
593. AVANESOV, AG; VORONKO, YK; DENKER, BI; MAKSIMOVA, GV; OSIKO, VV;  
PIRUMOV, SS; SHCHERBAKOV, IA.  
AN INVESTIGATION OF MECHANISMS OF INTERACTION BETWEEN CHROMIUM AND  
NEODYMIUM IONS IN PHOSPHATE-GLASSES  
KVANTOVAYA ELEKTRONIKA 8(7), 1442-1450 (1981)
594. VODOPYANOV, KL; DENKER, BI; ILICHYOV, NN; KERTESZ, I; MALYUTIN, AA;  
OSIKO, VV; PASHININ, PP; ZIGANI, I.  
THE USE OF CONCENTRATED LI-ND-LA-PHOSPHATE GLASS IN Q-SWITCHED LASERS  
KVANTOVAYA ELEKTRONIKA 8(7), 1595-1598 (1981)
595. DENKER, BI; ILICHYOV, NN; MAKSIMOVA, GV; MALYUTIN, AA; OSIKO, VV;  
PASHININ, PP.  
EFFICIENCY OF A LI-ND-LA-PHOSPHATE GLASS-LASER IN THE LOW-PUMP REGION  
(FREE-RUNNING OSCILLATION)  
KVANTOVAYA ELEKTRONIKA 8(7), 1598-1601 (1981)
596. VORONKO, YK; ZUFAROV, MA; IGNATEV, BV; OSIKO, VV; LOMONOVA, EE;  
SOBOL, AA.  
RAMAN LIGHT-SCATTERING IN ZRO<sub>2</sub>-GD<sub>2</sub>O<sub>3</sub> AND ZRO<sub>2</sub>-EU<sub>2</sub>O<sub>3</sub> SINGLE-CRYSTALS OF  
TETRAGONAL STRUCTURE  
OPTIKA I SPEKTROSKOPIYA 51(4), 569-571 (1981)
597. DOROSH, IR; KUZMINOV, YS; POLOZKOV, NM; PROKHOROV, AM; OSIKO, VV;  
TKACHENKO, NV; VORONOV, VV; NURLIGAREEV, DK.  
BARIUM-STRONTIUM NIOBATE CRYSTALS FOR OPTICAL INFORMATION RECORDING  
PHYSICA STATUS SOLIDI A-APPLIED RESEARCH 65(2), 513-522 (1981)
598. BONDAR, IA; BURSHTEIN, AI; KRUTIKOV, AV; MEZENTSEVA, LP; OSIKO, VV;  
SAKUN, VP; SMIRNOV, VA; SHCHERBAKOV, IA.  
INVESTIGATION OF ELECTRON-EXCITATION RELAXATION IN CRYSTALS FOR  
ARBITRARY VALUES OF THE INTERACTION MICROPARAMETERS AND ENERGY DONOR  
AND ACCEPTOR CONCENTRATIONS  
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 81(1), 96-114 (1981)
599. ASTASHKIN, SA; DUDOROV, VN; OSIKO, VV; TIMOSHECHKIN, MI;  
CHERVENKOV, VD.  
ANALOG SYSTEM FOR MONITORING CRYSTAL-GROWTH BY THE CZOCHRALSKI  
METHOD  
INSTRUMENTS AND EXPERIMENTAL TECHNIQUES 24(6), 1553-1556 (1981)
600. AVANESOV, AG; LEBEDEV, VA; OSIKO, VV; POPOV, VV.  
ELECTRICAL-PROPERTIES OF PHOSPHATE-GLASSES  
INORGANIC MATERIALS 17(11), 1545-1547 (1981)

601. DOROSH, IR; KUZMINOV, YS; OSIKO, VV; TKACHENKO, NV.  
 CE-DOPING CONCENTRATION EFFECT ON HOLOGRAPHIC SENSITIVITY OF (SRXBA1-X)<sub>1</sub>-Y(NB<sub>2</sub>O<sub>6</sub>)<sub>Y</sub> CRYSTALS  
 FIZIKA TVERDOGO TELA 23(2), 609-611 (1981)
602. AVANESOV, A.G.; VORON'KO, YU.K.; DENKER, V.I.; MAKSIMOVA, G.V.; OSIKO, V.V.; PIRUMOV, S.S.; SHCHERBAKOV, I.A..  
 INVESTIGATION OF THE MECHANISMS OF INTERACTION BETWEEN CHROMIUM AND NEODYMIUM IONS IN PHOSPHATE GLASSES  
 SOVIET JOURNAL OF QUANTUM ELECTRONICS 11(7), 873 (1981)
603. DENKER, B.I.; OSIKO, V.V.; PASHININ, P.P.; PROKHOROV, A.M..  
 CONCENTRATED NEODYMIUM LASER GLASSES (REVIEW)  
 SOVIET JOURNAL OF QUANTUM ELECTRONICS 11(3), 289 (1981)
604. DENKER, B.I.; IL'CHEV, N.N.; MAKSIMOVA, G.V.; MALYUTIN, A.A.; OSIKO, V.V.; PASHININ, P.P..  
 EFFICIENCY OF AN LI-ND-LA PHOSPHATE GLASS LASER AT LOW PUMP ENERGIES. FREE LASING  
 SOVIET JOURNAL OF QUANTUM ELECTRONICS 11(7), 965 (1981)
605. BASIEV, T.T.; VORON'KO, YU.K.; KIRPICHENKOVA, E.O.; MIROV, S.B.; OSIKO, V.V.; SOSKIN, M.S.; TARANENKO, V.B..  
 TUNABLE LASER UTILIZING F<sup>2+</sup> COLOR CENTERS IN LIF AND A HOLOGRAPHIC SELECTOR  
 SOVIET JOURNAL OF QUANTUM ELECTRONICS 11(2), 255 (1981)
606. BONDAR, I. A.; BURSHEIN, A. I.; KRUTIKOV, A. V.; MEZENTZEVA, L. P.; OSIKO, V. V.; SAKUN, V. P.; SMIRNOV, V. A.; SHCHERBAKOV, I. A..  
 INVESTIGATION OF THE PROCESSES OF RELAXATION OF ELECTRON EXCITATION IN CRYSTALS FOR ARBITRARY RELATIONSHIPS BETWEEN INTERACTION MICROPARAMETERS AND CONCENTRATIONS OF ENERGY DONORS AND ACCEPTORS  
 SOV. PHYS. JETP 54, 45 (1981)
607. AVANESOV, A.G.; BASIEV, T.T.; VORONKO, YU.K.; DENKER, B.I.; MAKSIMOVA, G.V.; OSIKO, V.V.; FEDOROV, V.S..  
 SELECTIVE LASER EXCITATION STUDY OF ELECTRON-PHONON INTERACTION OF SM<sup>3+</sup> IONS IN GLASS  
 OPTICS AND SPECTROSCOPY 51(1), 80 (1981)
608. DOROSH, I.R.; KUZ'MINOV, YU.S.; OSIKO, V.V.; TKACHENKO, N.V..  
 INFLUENCE OF CE CONCENTRATION ON HOLOGRAPHIC SENSITIVITY OF BARIUM-STRONTIUM NIOBATE (SRXBA1-X)<sub>1</sub>-Y(NB<sub>2</sub>O<sub>6</sub>)<sub>Y</sub> CRYSTALS  
 SOVIET PHYSICS - SOLID STATE 23(2), 345 (1981)
609. AVANESOV, AG; BURSTEIN, AI; DENKER, BI; OSIKO, VV; PIRUMOV, SS; SHCHERBAKOV, IA.  
 DISPERSION OF PROBABILITIES OF INTER-IONIC NONRADIATIVE-TRANSITIONS IN SOLIDS  
 DOKLADY AKADEMII NAUK SSSR 254(3), 593-596 (1980)
610. VORONKO, YK; IGNATEV, BV; LOMONOVA, EE; OSIKO, VV; SOBOL, AA.  
 RAMAN-SCATTERING STUDY OF HIGH-TEMPERATURE PHASE-TRANSITIONS IN ZRO<sub>2</sub> AND HFO<sub>2</sub> SOLID-SOLUTIONS  
 FIZIKA TVERDOGO TELA 22(4), 1034-1038 (1980)
611. KITAEVA, VF; SOBOLEV, NN; CHISTYI, IL; ZHARIKOV, EY; OSIKO, VV; TIMOSHECHKIN, MI; ZOLOTKO, AZ.

- MOLECULAR LIGHT-SCATTERING IN GARNETS DOPED WITH ERBIUM  
FIZIKA TVERDOGO TELA 22(5), 1379-1383 (1980)
612. IGNATEV, BV; KALABUKHOVA, VF; OSIKO, VV; SOBOL, AA.  
CONCENTRATION-DEPENDENCE OF RAMAN LIGHT-SCATTERING SPECTRA IN (1-X)ZRO<sub>2</sub>-XHFO<sub>2</sub> SOLID-SOLUTIONS  
FIZIKA TVERDOGO TELA 22(5), 1524-1526 (1980)
613. OSIKO, VV; PROKHOROV, AM; SHCHERBAKOV, IA.  
ACTIVE MEDIA OF SOLID LASERS  
IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA 44(8), 1698-1715 (1980)
614. BASIEV, TT; VOROBEV, NS; MIROV, SB; OSIKO, VV; PASHININ, PP;  
POSTOVALOV, VE; PROKHOROV, AM.  
STUDY OF PICOSECOND TUNABLE-FREQUENCY LASING AT F<sub>2</sub>(+) COLOR-CENTERS IN  
LiF CRYSTAL  
JETP LETTERS 31(5), 291-294 (1980)
615. VORONOV, VV; KUZMINOV, YS; OSIKO, VV; PROKHOROV, AM.  
PHOTOELECTRIC AND PHOTOREFRACTIVE PROPERTIES OF A BARIUM-SODIUM  
NIOBATE FERROELECTRIC  
KRISTALLOGRAFIYA 25(6), 1208-1215 (1980)
616. AVANESOV, AG; BASOV, YG; DENKER, BI; ILICHYOV, NN; MAKSIMOVA, GV;  
MALYUTIN, AA; OSIKO, VV; PASHININ, PP; PROKHOROV, AM; SYCHYOV, VV.  
HIGH-EFFICIENCY REPETITIVELY PULSED LASER UTILIZING CONCENTRATED  
NEODYMIUM PHOSPHATE-GLASS  
KVANTOVAYA ELEKTRONIKA 7(5), 1120-1122 (1980)
617. KUZMINOV, YS; OSIKO, VV; PROKHOROV, AM.  
ELECTROOPTICAL AND NON-LINEAR OPTICAL-PROPERTIES OF OXYGEN-OCTAHEDRAL  
FERROELECTRICS  
KVANTOVAYA ELEKTRONIKA 7(8), 1621-1653 (1980)
618. DIANOV, EM; DMITRUK, MV; KARASIK, AY; KIRPICHENKOVA, EO; OSIKO, VV;  
OSTROUMOV, VG; TIMOSHECHKIN, MI; SHCHERBAKOV, IA.  
SYNTHESIS AND INVESTIGATION OF SPECTRAL-LUMINESCENT AND LASING  
PROPERTIES OF ALUMINUM BORATE CRYSTALS ACTIVATED BY CHROME AND  
NEODYMIUM IONS  
KVANTOVAYA ELEKTRONIKA 7(10), 2105-2111 (1980)
619. ZHILINSKAYA, EA; LAZUKIN, VN; CHEPELEVA, IV; OSIKO, VV.  
ELECTRON-PARAMAGNETIC-RES INVESTIGATION OF STABILIZED ZRO<sub>2</sub> SINGLE-  
CRYSTALS DOPED WITH CHROMIUM AND MANGANESE  
PHYSICA STATUS SOLIDI B-BASIC RESEARCH 98(2), 419-425 (1980)
620. GLUSHKO, AA; OSIKO, VV; TIMOFEYEV, YP; SHCHERBAKOV, IA.  
KINETICS OF POPULATION AND DECAY OF HIGHLY EXCITED-STATES IN TR<sup>3+</sup> IONS  
UNDER CONDITIONS OF STRONG INCOHERENT INTERACTION IN THE INTERMEDIATE  
STATES  
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 79(1), 194-206 (1980)
621. ALEKSANDROV, VI; BATYGOV, SK; KALABUKHOVA, VF; LAVRISHCHEV, SV;  
LOMONOVA, EE; MYZINA, VA; OSIKO, VV; TATARINTSEV, VM.  
INFLUENCE OF SiO<sub>2</sub> ON GROWTH AND PERFECTION OF STABILIZED ZRO<sub>2</sub> SINGLE-  
CRYSTALS  
INORGANIC MATERIALS 16(10), 1224-1227 (1980)

622. VETROGON, GI; DANILENKO, VI; KABANCHENKO, VY; OSIKO, VV;  
PROKHOROV, AM; TERENCEVSKII, AN; TIMOSHECHKIN, MI.  
CR<sup>3+</sup> EPR-SPECTRUM IN YTTRIUM-ALUMINIUM GARNET  
FIZIKA TVERDOGO TELA 22(11), 3216-3221 (1980)
623. ALEKSANDROV, VI; BATYGOV, SK; IVANOVSKAYA, VM; KALABUKHOVA, BF;  
LAVRISHCHEV, SV; LOMONOVA, EE; MYZINA, VA; OSIKO, VV; TATARINTSEV, VM.  
DISTRIBUTION OF YTTRIUM AND INHOMOGENEITIES IN CUBIC SINGLE-CRYSTALS OF  
SOLID-SOLUTIONS OF THE ZRO<sub>2</sub>-Y<sub>2</sub>O<sub>3</sub> SYSTEM  
INORGANIC MATERIALS 16(1), 77-81 (1980)
624. ALEXANDROV, VI; IOFIS, NA; OSIKO, VV; PROKHOROV, AM; TATARINTSEV,  
VM.  
FIANITS AND PROSPECTS OF THEIR PRACTICAL USING  
VESTNIK AKADEMII NAUK SSSR (6), 65-& (1980)
625. GLUSHKO, AA; OSIKO, VV; TIMOFEYEV, YP; SHCHERBAKOV, IA.  
EFFECT OF THE CRYSTALLINE LATTICE ON THE POPULATION OF HIGHLY EXCITED-  
STATES OF TR<sup>3+</sup> IONS ON INFRARED EXCITATION  
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 78(1), 53-61 (1980)
626. GLUSHKOV, M.V.; KOSICHKIN, YU.V.; OSIKO, V.V.; PUKHLII, ZH.A.;  
SHCHERBAKOV, I.A..  
DISCRIMINATION IN INHOMOGENEOUSLY BROADENED EMISSION SPECTRA OF  
NEODYMIUM BY RESONANCE LASER EXCITATION  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 9(10), 1296 (1980)
627. AVANESOV, A.G.; BASOV, YU.G.; GARMASH, V.M.; DENKER, B.I.; IL'ICHEV,  
N.N.; MAKSIMOVA, G.V.; MALYUTIN, A.A.; OSIKO, V.V.; PASHININ, P.P.; PROKHOROV,  
A.M.; SYCHEV, V.V..  
HIGH-EFFICIENCY PULSE-PERIODIC LASER UTILIZING HIGH-CONCENTRATION  
NEODYMIUM PHOSPHATE GLASS  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 10(5), 644 (1980)
628. AVANESOV, A.G.; VORON'KO, YU.K.; DENKER, B.I.; KUT'ENKOV, A.A.;  
MAKSIMOVA, G.V.; OSIKO, V.V.; SIDOROVA, E.I.; TIMOFEEV, YU.P.; SHCHERBAKOV,  
I.A..  
MEASUREMENTS OF THE ABSOLUTE QUANTUM EFFICIENCY OF NEODYMIUM  
LUMINESCENCE IN HIGH-CONCENTRATION GLASSES COACTIVATED WITH  
CHROMIUM  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 9(10), 1323 (1980)
629. VETROGON, G.I.; DANILENKO, V.I.; KABANCHENKO, V.YA.; OSIKO, V.V.;  
PROKHOROV, A.M.; TERENCEVSKII, A.N.; TIMOSHECHKIN, M.I..  
ELECTRON SPIN RESONANCE SPECTRUM OF A CR<sup>3+</sup> ION IN YTTRIUM ALUMINUM  
GARNET  
SOVIET PHYSICS - SOLID STATE 22(11), 1881 (1980)
630. ALEKSANDROV, V.I.; BORIK, M.A.; DECHEV, G.KH.; MARKOV, N.I.; MYZINA,  
V.A.; OSIKO, V.V.; TATARINTSEV, V.M.; KHODAKOVSKAYA, RA.YA..  
SYNTHESIS AND STUDY OF GLASSES IN THE LA<sub>2</sub>O<sub>3</sub>-AL<sub>2</sub>O<sub>3</sub>-SIO<sub>2</sub> SYSTEM  
SOVIET JOURNAL OF GLASS PHYSICS AND CHEMISTRY 6(2), 117 (1980)
631. AVANESOV, A.G.; BURSHEIN, A.I.; DENKER, B.I.; OSIKO, V.V.; PIRUMOV, S.S.;  
SHCHERBAKOV, I.A..  
DISPERSION OF THE PROBABILITIES OF INTRACENTER NONRADIATIVE TRANSITIONS

- IN SOLIDS  
SOVIET PHYSICS - DOKLADY 25(9), 737 (1980)
632. BASIEV, T.T.; VOROB'EV, N.S.; MIROV, S.B.; OSIKO, V.V.; PASHININ, P.P.;  
POSTOVALOV, V.E.; PROKHOROV, A.M..  
INVESTIGATION OF PICOSECOND GENERATION ON F<sup>2+</sup> COLOUR CENTRES IN LIF  
CRYSTAL WITH RECONSTRUCTED FREQUENCY  
PIS'MA V ZHURNAL EKSPERIMENTAL'NOI I TEORETICHESKOI FIZIKI 31(5), 316 (1980)
633. KITAEVA, V.F.; SOBOLEV, N.N.; CHISTYI, I.L.; ZHARIKOV, E.V.; OSIKO, V.V.;  
TIMOSHECHKIN, M.I.; ZOLOT'KO, A.S..  
MOLECULAR SCATTERING OF LIGHT IN ERBIUM-DOPED GARNETS  
SOVIET PHYSICS - SOLID STATE 22(5), 805 (1980)
634. VORONOV, V.V.; KUZ'MINOV, YU.S.; OSIKO, V.V.; PROKHOROV, A.M..  
PHOTOELECTRIC AND PHOTOREFRACTIVE PROPERTIES OF THE FERROELECTRIC  
BARIUM SODIUM NIOBATE  
SOVIET PHYSICS - CRYSTALLOGRAPHY 25(6), 691 (1980)
635. OSIKO, V.V.; PROKHOROV, A.M.; SHCHEREBAKOV, I.A..  
ACTIVE MEDIA OF SOLID-STATE LASERS  
BULLETIN OF THE ACADEMY OF SCIENCES OF THE USSR, PHYSICAL SERIES 44(8), 115  
(1980)
636. VORONOV, V.V.; GULAYAN, E.KH.; DOROSH, I.R.; KUZ'MINOV, YU.S.;  
MIKAELIAN, A.L.; OSIKO, V.V.; POLOZKOV, N.M.; PROKHOROV, A.M..  
PHOTOELECTRIC AND PHOTOREFRACTIVE PROPERTIES OF CERIUM-DOPED BARIUM  
STRONTIUM NIOBATE CRYSTALS  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 9(9), 1172 (1979)
637. AVANESOV, A.G.; VORON'KOV, YU.K.; DENKER, B.I.; MAKSIMOVA, G.V.;  
OSIKO, V.V.; PROKHOROV, A.M.; SHCHERBAKOV, I.A..  
NONRADIATIVE ENERGY TRANSFER FROM CR<sup>3+</sup> TO ND<sup>3+</sup> IONS IN GLASSES WITH  
HIGH NEODYMIUM CONCENTRATIONS  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 9(7), 935 (1979)
638. AVANESOV, A.G.; VASIL'EV, I.V.; VORON'KO, YU.K.; DENKER, B.I.; ZINOV'EV,  
S.V.; KUZNETSOV, A.S.; OSIKO, V.V.; PASHININ, P.P.; PROKHOROV, A.M.; SEMENOV,  
A.A..  
INVESTIGATION OF THE LASER CHARACTERISTICS OF LI-ND-LA PHOSPHATE GLASS  
ACTIVE ELEMENTS  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 9(7), 937 (1979)
639. AVANESOV, AG; BASIEV, TT; VORONKO, YK; DENKER, BI; KARASIK, AY;  
MAKSIMOVA, GV; OSIKO, VV; PISARENKO, VF; PROKHOROV, AM.  
NEODYMIUM ELECTRON-ENERGY DEACTIVATION AND TRANSFER IN HIGHLY  
CONCENTRATED PHOSPHATE-GLASSES  
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 77(5), 1770 (1979)
640. ALEKSANDROV, VI; BELYANINA, RG; BLOKHIN, VA; IEVLEVA, ZI; OSIKO, VV;  
SHIMKEVICH, AL; SHMATKO, BA.  
CHARACTER OF THE CONDUCTIVITY OF FIENITES AT 300-500-DEGREES-C  
INORGANIC MATERIALS 15(9), 1273 (1979)
641. ASHUROV, MK; VORONKO, YK; ZHARIKOV, EV; KAMINSKII, AA; OSIKO, VV;  
SOBOL, AA; TIMOSHECHKIN, MI; FEDOROV, VA; SHABALTAI, AA.  
STRUCTURE, SPECTROSCOPY, AND STIMULATED-EMISSION OF CRYSTALS OF



- YTTRIUM HOLMIUM ALUMINUM GARNETS  
INORGANIC MATERIALS 15(7), 979 (1979)
642. AVANESOV, A.G.; BASIEV, T.T.; VORON'KO, YU.K.; DENKER, B.I.; KARASIK, A.YA.; MAKSIMOVA, G.V.; OSIKO, V.V.; PISARENKO, V.F.; PROKHOROV, A.M..  
NEODYMIUM ELECTRON ENERGY DEACTIVATION AND TRANSFER IN HIGHLY  
CONCENTRATED PHOSPHATE GLASSES  
ZHURNAL EKSPERIMENTAL'NOI I TEORETICHESKOI FIZIKI 77(5), 1771 (1979)
643. AVANESOV, AG; VORONKO, YK; DENKER, BI; MAKSIMOVA, GV; OSIKO, VV;  
PROKHOROV, AM; SHCHERBAKOV, IA.  
RADIATION ENERGY-TRANSFER FROM CR<sup>3+</sup> IONS TO ND<sup>3+</sup> IONS IN HIGH-  
CONCENTRATION NEODYMIUM-DOPED GLASSES  
KVANTOVAYA ELEKTRONIKA 6(7), 1583 (1979)
644. AVANESOV, AG; VASILEV, IV; VORONKO, YK; DENKER, BI; ZINOVEV, SV;  
KUZNETSOV, AS; OSIKO, VV; PASHININ, PP; PROKHOROV, AM; SEMYONOV, AA.  
STUDY INTO LASING CHARACTERISTICS OF ACTIVE ELEMENTS MADE OF LI-ND-LA-  
PHOSPHATE GLASS  
KVANTOVAYA ELEKTRONIKA 6(7), 1586 (1979)
645. AVANESOV, AG; VORONKO, YK; DENKER, BI; OSIKO, VV; KUTENKOV, AA;  
MAKSIMOVA, GV; SIDOROVA, EI; TIMOFEEV, YP; SHCHERBAKOV, IA.  
MEASUREMENTS OF THE ABSOLUTE QUANTUM YIELD OF NEODYMIUM  
LUMINESCENCE IN HIGH-CONCENTRATION GLASSES CO-ACTIVATED WITH CHROME  
KVANTOVAYA ELEKTRONIKA 6(10), 2253 (1979)
646. AVANESOV, A. G.; BASIEV, T. T.; VORON'KO, YU. K.; DENKER, B. I.; KARASIK, A.  
YA.; MAKSIMOVA, G. V.; OSIKO, V. V.; PISARENKO, V. F.; PROKHOROV, A. M..  
INVESTIGATION OF THE PROCESSES OF DEACTIVATION AND ELECTRON EXCITATION  
ENERGY TRANSFER OF NEODYMIUM IN HIGHLY CONCENTRATED PHOSPHATE  
GLASSES  
SOV. PHYS. JETP 77(5), 1771 (1979)
647. BASIEV, T.T.; BORIK, M.A.; VORONKO, YU.K.; OSIKO, V.V.; FEDOROV, V.S..  
SELECTIVE LASER EXCITATION OF THE LUMINESCENCE OF SM<sup>3+</sup> IONS IN  
LANTHANUM ALUMINUM SILICATE GLASS  
OPTICS AND SPECTROSCOPY 46(5), 510 (1979)
648. BASIEV, T.T.; VORON'KO, YU.K.; MIROV, S.B.; OSIKO, V.V.; PROKHOROV, A.M..  
KINETICS OF ACCUMULATION AND GENERATION OF F<sup>2+</sup> CENTRES IN LIF(F<sub>2</sub>)  
CRYSTALS  
PIS'MA V ZHURNAL EKSPERIMENTAL'NOI I TEORETICHESKOI FIZIKI 30(10), 661 (1979)
649. BASIEV, TT; VORONKO, YK; MIROV, SB; OSIKO, VV; PROKHOROV, AM.  
KINETICS OF ACCUMULATION AND EXCITATION OF F<sup>2+</sup> CENTERS IN LIF(F<sub>2</sub>) CRYSTALS  
JETP LETTERS 30(10), 626 (1979)
650. BASIEV, TT; BORIK, MA; VORONKO, YK; OSIKO, VV; FEDOROVA, VS.  
SELECTIVE LASER EXCITATION OF LUMINESCENCE OF SM-3+ IONS IN  
LANTHANOALUMOSILICATE GLASS  
OPTIKA I SPEKTROSKOPIYA 46(5), 904 (1979)
651. VORONOV, VV; KUZMINOV, YS; OSIKO, VV.  
MECHANISM OF PHOTOREFRACTION IN BARIUM SODIUM NIOBATE CRYSTAL DOPED  
WITH FE AND MO IONS  
FIZIKA TVERDOGO TELA 21(10), 3061 (1979)

652. VORONOV, VV; GULANYAN, EK; DOROSH, IR; KUZMINOV, YS; MIKAELIAN, AL; OSIKO, VV; POLOZKOV, NM; PROKHOROV, AM.  
PHOTO-ELECTRIC AND PHOTOREFRACTIVE PROPERTIES OF BARIUM-STRONTIUM NIOBATE CRYSTALS DOPED WITH CERIUM  
KVANTOVAYA ELEKTRONIKA 6(9), 1993 (1979)
653. ASHUROV, M.KH.; BASIEV, T.T.; VORON'KO, YU.K.; ZHARIKOV, E.V.; ZHEKOV, V.I.; MURINA, T.M.; OSIKO, V.V.; TIMOSHECHKIN, M.I.; SHCHERBAKOV, I.A..  
NONRADIATIVE LOSSES DUE TO THE  $4I_{11/2}$ - $4I_{13/2}$  TRANSITION OF THE  $ER^{3+}$  ION IN  $Y_2Al_5O_{12}$ ,  $Gd_3Sc_2Al_3O_{12}$ ,  $Y_3Ga_5O_{12}$ ,  $Gd_3Ga_5O_{12}$ , AND  $CaF_2$  CRYSTALS  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 8(5), 588 (1978)
654. DENKER, B.I.; OSIKO, V.V.; PROKHOROV, A.M.; SHCHERBAKOV, I.A..  
CONCENTRATION DEPENDENCES OF THE QUANTUM EFFICIENCY OF THE LUMINESCENCE EMITTED BY NEODYMIUM-ACTIVATED LASER MATRICES AND MICROSCOPIC DETERMINATION OF THESE DEPENDENCES  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 8(4), 485 (1978)
655. ALEKSANDROV, V.I.; OSIKO, V.V.; PROKHOROV, A.M.; TATARINTSEV, V.M.; KALDIS, E..  
SYNTHESIS AND CRYSTAL GROWTH AND REFRACTORY MATERIALS BY RF MELTING IN A COLD CONTAINER  
CURRENT TOPICS IN MATERIALS SCIENCE, VOL.1, CHAPTER 6, 421 (1978)
656. ALEKSANDROV, V.I.; VORON'KO, YU.K.; IGNAT'EV, B.V.; LOMONOVA, E.E.; OSIKO, V.V.; SOBOL', A.A..  
RAMAN SCATTERING INVESTIGATION OF STRUCTURAL TRANSFORMATIONS IN SOLID SOLUTIONS BASED ON ZIRCONIUM AND HAFNIUM DIOXIDES  
SOVIET PHYSICS - SOLID STATE 20(2), 305 (1978)
657. ALEKSANDROV, VI; VORONKO, YK; IGNATEV, BV; LOMONOVA, EE; OSIKO, VV; SOBOL, AA.  
COMBINATIONAL LIGHT-SCATTERING STUDY OF STRUCTURE TRANSFORMATIONS IN SOLID-SOLUTIONS ON BASIS OF ZIRCONIUM AND HAFNIUM BIOXIDE  
FIZIKA TVERDOGO TELA 20(2), 528 (1978)
658. ALEKSANDROV, VI; OSIKO, VV; PROKHOROV, AM; TATARINTSEV, VM.  
PREPARATION OF HIGH-TEMPERATURE MATERIALS, USING METHOD OF DIRECT HIGH-FREQUENCY MELTING IN A COLD CONTAINER  
USPEKHI KHIMII 47(3), 385 (1978)
659. ALIMOV, OK; BASIEV, TT; VORONKO, YK; GRIBKOV, YV; KARASIK, AY; OSIKO, VV; PROKHOROV, AM; SHCHERBAKOV, IA.  
INVESTIGATION OF STRUCTURE OF INHOMOGENEOUSLY BROADENED SPECTRA OF  $ND^{3+}$  IONS IN GLASS BY SELECTIVE LASER EXCITATION TECHNIQUE  
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 74(1), 57 (1978)
660. ASHUROV, MK; BASIEV, TT; VORONKO, YK; ZHARIKOV, EV; ZHEKOV, VI; MURINA, TM; OSIKO, VV; TIMOSHECHKIN, MI; SHCHERBAKOV, IA.  
NONRADIATIVE LOSSES AT  $I-4-11-2-I-4-13-2$  LASER TRANSITION IN  $ER^{3+}$  ION IN CRYSTALS OF  $Y_3Al_5O_{12}$ ,  $Gd_3Sc_2Al_3O_{12}$ ,  $Y_3Ga_5O_{12}$ ,  $Gd_3Ga_5O_{12}$ ,  $CaF_2$   
KVANTOVAYA ELEKTRONIKA 5(5), 1028 (1978)
661. BASIEV, TT; VORONKO, YK; KARASIK, AY; OSIKO, VV; SHCHERBAKOV, IA.  
SPECTRAL MIGRATION OF ELECTRONIC EXCITATION ALONG  $ND^{3+}$  IONS IN  $CaF_2$ - $YF_3$  CRYSTALS ON SELECTIVE LASER EXCITATION  
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 75(1), 66 (1978)

662. DENKER, BI; MAXIMOVA, GV; OSIKO, VV; PROKHOROV, AM; TANANAEV, IV.  
HIGH-CONCENTRATED NEODYMIUM LASER GLASSES  
DOKLADY AKADEMII NAUK SSSR 239(3), 573 (1978)
663. DENKER, BI; OSIKO, VV; PROKHOROV, AM; SHCHERBAKOV, IA.  
CONCENTRATION EFFECTS IN NEODYMIUM-ACTIVATED LASER ARRAYS AND  
MICROSCOPIC APPROACH TO THEIR DETERMINATION  
KVANTOVAYA ELEKTRONIKA 5(4), 847 (1978)
664. ESKOV, NA; OSIKO, VV; SOBOL, AA; TIMOSHECHKIN, MI; BUTAEVA, TI; CHAN,  
N; KAMINSKII, AA.  
NEW LASER GARNET CA<sub>3</sub>GA<sub>2</sub>GE<sub>3</sub>O<sub>12</sub>-ND<sub>3</sub><sup>+</sup>  
INORGANIC MATERIALS 14(12), 1764 (1978)
665. KAMINSKII, AA; SARKISOV, SE; NGOC, T; DENKER, BI; OSIKO, VV;  
PROKHOROV, AM.  
STIMULATED-EMISSION SPECTROSCOPY OF CONCENTRATED LITHIUM NEODYMIUM  
PHOSPHATE GLASSES IN 4F<sub>3/2</sub>-]4I<sub>11/2</sub> AND 4F<sub>3/2</sub>-]4I<sub>13/2</sub> TRANSITIONS  
PHYSICA STATUS SOLIDI A-APPLIED RESEARCH 50(2), 745 (1978)
666. KAMINSKII, AA; OSIKO, VV; SARKISOV, SE; TIMOSHECHKIN, MI; ZHARIKOV,  
EV; BOHM, J; REICHE, P; SCHULTZE, D.  
GROWTH, SPECTROSCOPIC INVESTIGATIONS, AND SOME NEW STIMULATED-  
EMISSION DATA OF GD<sub>3</sub>GA<sub>5</sub>O<sub>12</sub>-ND<sub>3</sub><sup>+</sup> SINGLE-CRYSTALS  
PHYSICA STATUS SOLIDI A-APPLIED RESEARCH 49(1), 305 (1978)
667. VODOPYANOV, KL; DENKER, BI; MAKSIMOVA, GV; MALYUTIN, AA; OSIKO, VV;  
PASHININ, PP; PROKHOROV, AM.  
LASER PERFORMANCE OF LI-ND-LA PHOSPHATE GLASS  
KVANTOVAYA ELEKTRONIKA 5(3), 686 (1978)
668. ZHARIKOV, E.V.; ZHEKOV, V.I.; MURINA, T.M.; OSIKO, V.V.; TIMOSHECHKIN,  
M.I.; SHCHERBAKOV, I.A..  
CROSS SECTION OF THE 4I<sub>11/2</sub>-4I<sub>13/2</sub> LASER TRANSITION IN ER<sub>3</sub><sup>+</sup> IONS IN YTTRIUM-  
ERBIUM-ALUMINIUM GARNET CRYSTALS  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 7(1), 117 (1977)
669. DMITRYUK, A.V.; KARAPETYAN, G.O.; MANENKOV, A.A.; OSIKO, V.V.; RITUS,  
A.I.; SHCHERBAKOV, I.A..  
CORRELATION OF THE EFFICIENCY OF COOPERATIVE SENSITIZATION OF  
LUMINESCENCE WITH THE INTENSITY OF RAYLEIGH SCATTERING  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 7(8), 943 (1977)
670. BONDAR', I.A.; DENKER, D.I.; DOMANSKII, A.I.; MAMEDOV, T.G.;  
MEZENTSEVA, L.P.; OSIKO, V.V.; SHCHERBAKOV, I.A..  
INVESTIGATION OF ANOMALOUSLY WEAK QUENCHING OF ND<sub>3</sub><sup>+</sup> ION  
LUMINESCENCE IN LA<sub>1</sub>-XNDXP<sub>5014</sub>  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 7(2), 167 (1977)
671. MKH, ASHUROV; YUK, VORONKO; OSIKO, VV; SOBOL, AA; TIMOSHECHKIN,  
MI.  
THE ANTISITE LUMINESCENCE-RELATED TRAP IN LU<sub>3</sub>AL<sub>5</sub>O<sub>12</sub>: CE SINGLE CRYSTAL  
PHYS STATUS SOLIDI A 242, R119 (1977)
672. ASHUROV, M. H.; VORONKO, Y. K.; OSIKO, V. V.; SOLOL, A. A..  
SPECTROSCOPIC INVESTIGATION OF STRUCTURAL DISORDERING OF GARNET  
CRYSTALS WITH RARE-EARTH DOPANTS  
PUBLISHER: NAUKA, LENINGRAD, RUSSIA , 71 (1977)

673. ASHUROV, MK; VORONKO, YK; OSIKO, VV; SOBOL, AA; TIMOSHECHKIN, MI.  
SPECTROSCOPIC STUDY OF STOICHIOMETRY DEVIATION IN CRYSTALS WITH GARNET  
STRUCTURE  
PHYSICA STATUS SOLIDI A-APPLIED RESEARCH 42(1), 101 (1977)
674. ALEKSANDROV, VI; KALABUKHOVA, VF; LOMONOVA, EE; OSIKO, VV;  
TATARINTSEV, VI.  
INFLUENCE OF IMPURITIES AND ANNEALING CONDITIONS ON OPTICAL-PROPERTIES  
OF SINGLE-CRYSTALS OF ZRO<sub>2</sub> AND HFO<sub>2</sub>  
INORGANIC MATERIALS 13(12), 1747 (1977)
675. CHISTYI, IL; FABELINSKII, IL; KITAEVA, VF; OSIKO, VV; PISAREVSKII, YV;  
SILVESTROVA, IM; SOBOLEV, NN.  
EXPERIMENTAL-STUDY OF PROPERTIES OF ZRO<sub>2</sub>-Y<sub>2</sub>O<sub>3</sub> AND HFO<sub>2</sub>-Y<sub>2</sub>O<sub>3</sub> SOLID-  
SOLUTIONS  
JOURNAL OF RAMAN SPECTROSCOPY 6(4), 183 (1977)
676. DENKER, BI; KILPIO, AV; MAKSIMOVA, GV; MALYUTIN, AA; OSIKO, VV;  
PASHININ, PP; PROKHOROV, AM; SHCHERBAKOV, IA.  
STUDY OF NONRADIATIVE LOSS AND FREQUENCY CONDITIONS OF STIMULATED-  
EMISSION FROM LI-ND-LA PHOSPHATE GLASS  
KVANTOVAYA ELEKTRONIKA 4(3), 688 (1977)
677. DMITRYUK, AV; KARAPETYAN, GO; MANENKOV, AA; OSIKO, VV; RITUS, AI;  
SHCHERBAKOV, IA.  
CORRELATION BETWEEN COOPERATIVE SENSITIZATION EFFICIENCY OF  
LUMINESCENCE AND RAYLEIGH-SCATTERING INTENSITY  
KVANTOVAYA ELEKTRONIKA 4(8), 1661 (1977)
678. GLUSHKOVA, VB; OSIKO, VV; SHCHERBAKOVA, LG; ALEKSANDROV, VI;  
PAPUTSKII, YN; TATARINTSEV, VM.  
CHARACTERISTICS OF MONO-CRYSTALLINE SOLID-SOLUTIONS IN SYSTEM ZRO<sub>2</sub>-Y<sub>2</sub>O<sub>3</sub>  
INORGANIC MATERIALS 13(12), 1751 (1977)
679. KATSNELSON, AA; ALEXANDROV, VI; OSIKO, VV; REVKEVICH, GP; STUPINA,  
NN; TATARINTSEV, VM.  
PICTURE OF DIFFUSE X-RAY-SCATTERING IN SINGLE-CRYSTALS OF SOLID-SOLUTIONS  
HFO<sub>2</sub>-Y<sub>2</sub>O<sub>3</sub> AND ZRO<sub>2</sub>-Y<sub>2</sub>O<sub>3</sub>  
KRISTALLOGRAFIYA 22(5), 1110 (1977)
680. PROKHOROV, AM; KAMINSKII, AA; OSIKO, VV; TIMOSHECHKIN, MI;  
ZHARIKOV, EV; BUTAEVA, TI; SARKISOV, SE; PETROSYAN, AG; FEDOROV, VA.  
INVESTIGATIONS OF 3 MUM STIMULATED-EMISSION FROM ER<sup>3+</sup> IONS IN  
ALUMINUM GARNETS AT ROOM-TEMPERATURE  
PHYSICA STATUS SOLIDI A-APPLIED RESEARCH 40(1), K69 (1977)
681. VORONOV, VV; KARLOV, NV; KUZMIN, GP; KUZMINOV, YS; KURITSIN, BA;  
NIKIFOROV, SM; OSIKO, VV; PROKHOROV, AM.  
FAST RESPONSE PYROELECTRIC DETECTOR BASED ON BA<sub>0,25</sub>SR<sub>0,75</sub>NB<sub>2</sub>O<sub>6</sub> CRYSTALS  
KVANTOVAYA ELEKTRONIKA 4(9), 1903 (1977)
682. GOMELAURI, G.V.; KULEVSKII, L.A.; OSIKO, V.V.; SAVEL'EV, A.D.; SMIRNOV,  
V.V..  
SINGLE-MODE Q-SWITCHED CAF<sub>2</sub>:ER<sup>3+</sup> LASER  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 6(3), 341 (1976)
683. BATYGOV, S.KH.; VORON'KO, YU.K.; DENKER, B.I.; ZLENKO, A.R.; KARASIK,  
A.YA.; MAKSIMOVA, G.V.; NEUSTRUEV, V.B.; OSIKO, V.V..

- PHYSICO-CHEMICAL, SPECTRAL, LUMINESCENCE AND STIMULATED EMISSION PROPERTIES OF PHOSPHATE GLASSES WITH HIGH NEODYMIUM CONCENTRATIONS  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 6(10), 1220 (1976)
684. BASIEV, T.T.; KHARIKOV, E.V.; ZHEKOV, V.I.; MURINA, T.M.; OSIKO, V.V.; PROKHOROV, A.M.; STARIKOV, B.P.; TIMOSHECHKIN, M.I.; SHCHERBAKOV, I.A.  
RADIATIVE AND NONRADIATIVE TRANSITIONS EXHIBITED BY ER<sup>3+</sup> IONS IN MIXED YTTRIUM-ERBIUM ALUMINIUM GARNETS  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 6(7), 796 (1976)
685. DENKER, B.I.; OSIKO, V.V.; STARIKOV, B.P.; TIMOSHECHKIN, M.I.; SHCHERBAKOV, I.A.; YABLONSKII, A.YA.  
SPECTROSCOPIC PROPERTIES OF NEODYMIUM-ACTIVATED SCANDIUM GARNETS  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 6(3), 334 (1976)
686. ALEKSANDROV, V. I.; KITAEVA, V. F.; OSIKO, V. V.; SOBOLEV, N. N.; TATARINTSEV, V. M.; CHISTYI, I. L.  
SPECTRA OF MOLECULAR SCATTERING OF LIGHT IN Y<sub>2</sub>O<sub>3</sub> AND SC<sub>2</sub>O<sub>3</sub> CRYSTALS  
SOV. PHYS. 4, 8 (1976)
687. ALEKSANDROV, VI; VALYANO, GE; LUKIN, BV; OSIKO, VV; RAUTBORT, AE; TATARINTSEV, VM; FILATOVA, VN.  
STRUCTURE OF SINGLE-CRYSTALS OF STABILIZED ZIRCONIUM DIOXIDE  
INORGANIC MATERIALS 12(2), 235 (1976)
688. ASHUROV, MK; VORONKO, YK; OSIKO, VV; SOBOL, AA; STARIKOV, BP; TIMOSHECHKIN, MI; YABLONSKII, AY.  
INEQUIVALENT LUMINESCENCE-CENTERS OF ER<sup>3+</sup> IN GALLIUM GARNET SINGLE-CRYSTALS  
PHYSICA STATUS SOLIDI A-APPLIED RESEARCH 35(2), 645 (1976)
689. BASIEV, TT; ZHARIKOV, EV; ZHEKOV, VI; MURINA, TM; OSIKO, VV; PROKHOROV, AM; STARIKOV, BP; TIMOSHECHKIN, MI; SHCHERBAKOV, IA.  
RADIATIVE AND NONRADIATIVE-TRANSITIONS IN ER<sup>3+</sup> IN MIXED YTTRIUM-ERBIUM-ALUMINIUM GARNETS  
KVANTOVAYA ELEKTRONIKA 3(7), 1471 (1976)
690. BASIEV, TT; VORONKO, YK; OSIKO, VV; PROKHOROV, AM; SHCHERBAKOV, IA.  
EXPERIMENTAL-OBSERVATION OF EXCITATION TRAPPING IN A SYSTEM OF STRONGLY INTERACTING PARTICLES  
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 70(4), 1225 (1976)
691. CHISTYI, I.L.; KITAEVA, V.F.; OSIKO, V.V.; SOBOLEV, N.N.; STARIKOV, B.P.; TIMOSHECHKIN, M.I.  
MOLECULAR SCATTERING OF LIGHT IN GARNETS  
SOVIET PHYSICS - SOLID STATE 17(5), 922 (1976)
692. DENKER, BI; OSIKO, VV; STARIKOV, BP; TIMOSHECHKIN, MI; SHCHERBAKOV, IA; YABLONSKII, AY.  
SPECTROSCOPIC PROPERTIES OF SCANDIUM-CONTAINING GARNETS ACTIVATED BY NEODYMIUM  
KVANTOVAYA ELEKTRONIKA 3(3), 618 (1976)
693. ERMAKOVICH, KK; LAZUKIN, VN; OSIKO, VV; CHEPELEVA, IV.  
EPR IN CUBIC (ZRO<sub>2</sub>)<sub>0.9</sub>(Y<sub>2</sub>O<sub>3</sub>)<sub>0.1</sub>-VO<sub>2</sub><sup>+</sup> AND (HFO<sub>2</sub>)<sub>0.9</sub>(Y<sub>2</sub>O<sub>3</sub>)<sub>0.1</sub>-CU<sub>2</sub><sup>+</sup> SINGLE-CRYSTALS  
FIZIKA TVERDOGO TELA 18(5), 1450 (1976)

694. GOMELAURI, GV; KULEVSKII, LA; OSIKO, VV; SAVELEV, AD; SMIRNOV, VV.  
SINGLE-MODE Q-SWITCHED CAF-2-ER-3+LASER  
KVANTOVAYA ELEKTRONIKA 3(3), 628 (1976)
695. VORONKO, YK; DENKER, BI; ZLENKO, AA; KARASIK, AY; KUZMINOV, YS;  
MAKSIMOVA, GV; OSIKO, VV; PROKHOROV, AM; SYCHUGOV, VA; SHIPULO, GP;  
SHCHERBAKOV, IA.  
SPECTRAL AND GENERATIVE PROPERTIES OF LI-ND-PHOSPHATIC GLASS  
DOKLADY AKADEMII NAUK SSSR 227(1), 75 (1976)
696. VORONKO, YK; DENKER, BI; ZLENKO, AA; KARASIK, AY; KUZMINOV, YS;  
MAKSIMOVA, GV; NEUSTRUYEV, VB; OSIKO, VV; PROKHOROV, AM; SYCHUGOV, VA;  
SHIPULO, GP; SHCHERBAKOV, IA.  
SPECTRAL AND LASING PROPERTIES OF LI-ND PHOSPHATE GLASS  
OPTICS COMMUNICATIONS 18(1), 88 (1976)
697. VORONKO, YK; MOMEDOV, TG; OSIKO, VV; PROKHOROV, AM; SAKUN, VP;  
SHCHERBAKOV, IA.  
INVESTIGATION OF NATURE OF NONRADIATIVE EXCITATION-ENERGY RELAXATION IN  
CONDENSED MEDIA WITH A HIGH ACTIVATOR CONCENTRATION  
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 71(8), 478 (1976)
698. VORONOV, VV; KUZMINOV, YS; OSIKO, VV.  
OPTICALLY INDUCED CHANGE OF REFRACTIVE-INDEX IN FERROELECTRIC-CRYSTALS  
AND ITS USE FOR REVERSIBLE HOLOGRAPHIC MEMORY  
KVANTOVAYA ELEKTRONIKA 3(10), 2101 (1976)
699. ZHARIKOV, EV; ZHEKOV, VI; MURINA, TM; OSIKO, VV; PROKHOROV, AM;  
TIMOSHECHKIN, MI.  
COLOR-CENTERS IN CRYSTALS OF YTTRIUM-ALUMINUM AND YTTRIUM-ERBIUM-  
ALUMINUM GARNETS  
KVANTOVAYA ELEKTRONIKA 3(3), 589 (1976)
700. VORONKO, YK; MAMEDOV, TG; OSIKO, VV; ET AL..  
LUMINESCENCE QUENCHING IN GARNETS DOPED WITH TRIVALENT RE  
JETP 12, 478 (1976)
701. BATYGOV, S.KH.; KULEVSKII, L.A.; PROKHOROV, A.M.; OSIKO, V.V.; SAVEL'EV,  
A.D.; SMIRNOV, V.V..  
ERBIUM-DOPED CAF<sub>2</sub> CRYSTAL LASER OPERATING AT ROOM TEMPERATURE  
SOVIET JOURNAL OF QUANTUM ELECTRONICS 4(12), 1469 (1975)
702. BASIEV, T.T.; VORON'KO, YU.K.; MAMEDOV, T.G.; OSIKO, V.V.;  
SHCHERBAKOV, I.A..  
RELAXATION PROCESSES OF EXCITATION OF METASTABLE LEVELS OF RARE-EARTH  
IONS IN CRYSTALS  
PUBLISHER: NAUKA, MOSCOW , 155 (1975)
703. ALEKSANDROV, V. I.; DENKER, B. I.; LOMONOVA, E. E.; OSIKO, V. V.;  
TATARINTSEV, V. M.; BATYGOV, C. KH.; VORON'KO, YU. K..  
COLOR CENTERS IN CUBIC ZRO<sub>2</sub> SINGLE CRYSTALS  
IZV. AKAD. NAUK SSSR, NEORG. MATER. 11(4), 664 (1975)
704. ALEKSANDROV, V.I.; KITAEVA, VE.; KOZLOV, I.V.; OSIKO, V.V.; SOBOLEV, N.N.;  
TATARINTSEV, V.M.; CHISTYI, I.L..  
MANDELSTAM-BRILLOUIN SCATTERING OF LIGHT AND ELASTIC PROPERTIES OF  
ZIRCONIUM DIOXIDE SINGLE CRYSTALS STABILIZED BY YTTRIUM  
SOVIET PHYSICS - SOLID STATE 16(8), 1456 (1975)

705. DIANOV, EM; KUTENKOV, AA; MANENKOV, AA; OSIKO, VV; PROKHOROV, AM; RITUS, AI; SHCHERBAKOV, IA.  
INTENSITY OF RAYLEIGH-SCATTERING AND NONRADIATIVE LOSSES FROM METASTABLE STATE OF ND<sup>3+</sup> IN LASER SILICATE-GLASSES  
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 69(2), 540 (1975)
706. VORONOV, VV; KUZMINOV, YS; OSIKO, VV; PROKHOROV, AM.  
DIELECTRIC AND ELECTRIC PROPERTIES OF BARIUM-SODIUM-POTASSIUM NIOBATE CRYSTALS - SECOND-HARMONIC GENERATION  
KVANTOVAYA ELEKTRONIKA 2(3), 525 (1975)
707. PROKHOROV, A.M.; OSIKO, V.V.; VAINSHTEIN, B.K.; CHERNOV, A.A..  
INVESTIGATION OF THE STRUCTURE OF CRYSTALS DOPED WITH RARE-EARTH ELEMENT IMPURITIES BY THE SPECTROSCOPIC METHODS  
PUBLISHER: NAUKA, MOSCOW , 280 (1975)
708. ZHARIKOV, E. V.; ZHEKOV, V. I.; KULEVSKII, I. A.; MURINA, T. M.; OSIKO, V. V.; PROKHOROV, A. M.; SAVELEV, A. D.; SMIRNOV, V. V.; STARIKOV, B. P.; TIMOSHECHKIN, M. A..  
STIMULATED EMISSION FROM ER<sup>3+</sup>IONS IN YTTRIUM ALUMINUM GARNET CRYSTALS AT  $\lambda = 2.94$  MM  
SOV. J. QUANTUM ELECTRON 4(8), 1039 (1975)
709. BATYGOV, SK; KULEVSKII, LA; PROKHOROV, AM; OSIKO, VV; SAVELEV, AD; SMIRNOV, VV.  
ROOM-TEMPERATURE CAF<sub>2</sub>-ER<sup>3+</sup> LASER  
KVANTOVAYA ELEKTRONIKA 1(12), 2633 (1974)
710. VORONOV, VV; DESYATKO.SM; IVLEVA, LI; KUZMINOV, YS; OSIKO, VV.  
ELECTRICAL PROPERTIES OF SINGLE-CRYSTALS OF STRONTIUM-BARIUM NIOBATE, GROWN FROM STOICHIOMETRIC MELT OF COMPOSITION BA<sub>0,25</sub>SR<sub>0,75</sub>NB<sub>2</sub>O<sub>6</sub>  
KRISTALLOGRAFIYA 19(2), 401 (1974)
711. VORONOV, VV; KUZMINOV, YS; OSIKO, VV; PROKHORO.AM; SHUMSKAY.LS; SHIPULO, GP.  
BARIUM-SODIUM-POTASSIUM NIOBATE - PROMISING MATERIAL FOR NONLINEAR OPTICS  
DOKLADY AKADEMII NAUK SSSR 218(6), 1317 (1974)
712. VORONOV, VV; ZHARIKOV, EV; KUZMINOV, YS; OSIKO, VV; TOBIS, VI; SHUMSKAY.LS.  
EFFECT OF MONODOMAIN DEGREE ON SECOND-HARMONIC GENERATION AND ELECTROOPTIC PROPERTIES OF BARIUM-SODIUM NIOBATE CRYSTALS  
FIZIKA TVERDOGO TELA 16(1), 162 (1974)
713. ALEKSANDROV, VI; KITAEVA, VF; KOZLOV, IV; OSIKO, VV; SOBOLEV, NN; TATARINT.VM; CHISTYI, IL.  
MANDELSHTAM-BRILLOUIN LIGHT-SCATTERING AND ELASTIC PROPERTIES ZRO<sub>2</sub> SINGLE-CRYSTAL STABILIZED WITH YTTRIUM  
FIZIKA TVERDOGO TELA 16(8), 2230 (1974)
714. ALEKSANDROV, V.I.; KITAEVA, V.F.; KOZLOV, I.V.; OSIKO, V.V.; SOBOLEV, N.N.; TATARINTSEV, V.M.; CHISTYI, I.L..  
MOLECULAR SCATTERING OF LIGHT IN A SINGLE CRYSTAL OF HAFNIUM DIOXIDE  
SOVIET PHYSICS - CRYSTALLOGRAPHY 18(5), 682 (1974)
715. VORONOV, V.V.; DESYATKOVA, S.M.; IVLEVA, L.I.; KUZ'MINOV, YU.S.; OSIKO, V.V..

- ELECTRICAL PROPERTIES OF STRONTIUM-BARIUM NIOBATE SINGLE CRYSTALS  
GROWN FROM STOICHIOMETRIC MELT WITH THE COMPOSITION  
BA<sub>0.25</sub>SR<sub>0.75</sub>NB<sub>2</sub>O<sub>6</sub>  
SOVIET PHYSICS - CRYSTALLOGRAPHY 19(2), 247 (1974)
716. VORONOV, V.V.; ZHARIKOV, E.V.; KUZ'MINOV, YU.S.; OSIKO, V.V.; TOBIS, V.I.;  
SHUMSKAYA, L.S..  
EFFECT OF DEGREE OF UNIPOLARITY ON SECOND-HARMONIC GENERATION AND  
ELECTROOPTIC PROPERTIES OF BARIUM SODIUM NIOBATE CRYSTALS  
SOVIET PHYSICS - SOLID STATE 16(1), 96 (1974)
717. VORONOV, V.V.; DESYATKOVA, S.M.; IVLEVA, L.I.; KUZ'MINOV, YU.S.;  
LYAPUNOVA, L.G.; OSIKO, V.V..  
ELECTRICAL AND ELECTROOPTIC PROPERTIES OF STOICHIOMETRIC BARIUM-  
STRONTIUM NIOBATE SINGLE CRYSTALS  
SOVIET PHYSICS - SOLID STATE 15(7), 1463 (1974)
718. ZHARIKOV, E.V.; ZHEKOV, V.I.; KULEVSKII, L.A.; MURINA, T.M.; OSIKO, V.V.;  
PROKHOROV, A.M.; SAVEL'EV, A.D.; SMIRNOV, V.V.; STARIKOV, B.P.; TIMOSHECHKIN,  
M.I..  
STIMULATED EMISSION FROM ER<sup>3+</sup> IONS IN YTTRIUM ALUMINUM GARNET  
CRYSTALS AT  $\lambda = 2.94 \mu\text{m}$ , KVANTOVAYA ELEKTRON. 1, 1867 (1975), ENGLISH  
TRANSL  
SOV. J. QUANTUM ELECTRON 4, 1039 (1974)
719. VORONKO, YK; MAMEDOV, TG; OSIKO, VV; TIMOSHECHKIN, MI; SHCHERBA, IA.  
EFFECT OF DONOR-DONOR AND DONOR-ACCEPTOR INTERACTIONS ON DECAY  
KINETICS OF METASTABLE STATE OF ND<sup>3+</sup> IN CRYSTALS  
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 65(3), 1141 (1973)
720. ALEKSANDROV, V. I.; OSIKO, V. V.; TATARINTSEV, V. M.; UDOVENCHIK, V. T..  
MELTING REFRACTORY DIELECTRICS BY DIRECT HIGH-FREQUENCY HEATING IN A  
COLD CONTAINER  
IZV. AKAD. NAUK SSSR (2), 235 (1973)
721. VORONOV, VV; DESYATKOVA, S.M.; IVLEVA, LI; KUZMINOV, YS; LYAPUNOV, LG;  
OSIKO, VV.  
ELECTRIC AND ELECTROOPTIC PROPERTIES OF STOICHIOMETRIC BARIUM -  
STRONTIUM NIOBATE SINGLE-CRYSTALS  
FIZIKA TVERDOGO TELA 15(7), 2198 (1973)
722. VORONKO, YK; MAKSIMOVA, GV; OSIKO, VV; SOBOL, AA; STARIKOV, BP;  
TIMOSHECHKIN, MI.  
SPECTROSCOPIC PROPERTIES OF LA<sub>2</sub>BE<sub>2</sub>O<sub>5</sub> - ND<sup>3+</sup> SINGLE-CRYSTALS  
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE 17(1), K41 (1973)
723. ALEKSANDROV, VI; OSIKO, VV; PROKHOROV, AM; TATARINTSEV, VM.  
PRODUCTION OF HIGH MELTING-POINT CRYSTALS AND CERAMIC MATERIALS BY  
NEW METHOD  
VESTNIK AKADEMII NAUK SSSR (12), 29 (1973)
724. VORON'KO, YU.K.; OSIKO, V.V.; SAVOST'YANOVA, N.V.; FEDOROV, V.S.;  
SHCHERBAKOV, I.A..  
STUDY OF THE PROCESSES OF DEACTIVATION OF THE METASTABLE STATE OF  
EXCITED ND<sup>3+</sup> IONS IN LA<sub>2</sub>F<sub>3</sub> CRYSTALS  
SOVIET PHYSICS - SOLID STATE 14(9), 2294 (1973)



725. VORONKO, YK; SHCHERBA.IA; SAVOSTYA.NV; OSIKO, VV; FEDOROV, VS.  
STUDY OF DISACTIVATION PROCESSES FOR METASTABLE STATE OF ND<sup>3+</sup> EXCITED  
IONS IN LaF<sub>3</sub> CRYSTALS  
FIZIKA TVERDOGO TELA 14(9), 2656 (1972)
726. BATYGOV, SK; RADYUKHI.VS; MAIER, AA; DENKER, BI; TIMOSHEC.MI;  
VORONKO, YK; OSIKO, VV.  
COLOR CENTERS IN Y<sub>3</sub>Al<sub>5</sub>O<sub>12</sub> CRYSTALS  
FIZIKA TVERDOGO TELA 14(4), 977 (1972)
727. VORONKO, YK; DENKER, BI; OSIKO, VV.  
X-RAY LUMINESCENCE OF CaF<sub>2</sub>:TR<sup>3+</sup> CRYSTALS  
SOVIET PHYSICS SOLID STATE, USSR 13(8), 1842 (1972)
728. VORONKO, YK; SOBOL, AA; TIMOSHEC.MI; SHIPULO, GP; MAKSIMOV.GV;  
OSIKO, VV; MIKHALEV.VG.  
SPECTRAL PROPERTIES AND INDUCED RADIATION OF YTTRIUM-LUTECIUM-  
ALUMINUM GARNET WITH ND<sup>3+</sup>  
OPTIKA I SPEKTROSKOPIYA 33(4), 681 (1972)
729. VORONKO, YK; OSIKO, VV; SHCHERBA.IA.  
INVESTIGATION OF ELEMENTARY CROSS-RELAXATION ACT OF ND<sup>3+</sup> ION EXCITED-  
STATE IN CRYSTALS  
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 63(2), 691 (1972)
730. ALEKSANDROV, V.I.; OSIKO, V.V.; TATARINTSEV, V.M..  
ELECTRICAL CONDUCTIVITY OF ALUMINIUM OXIDE IN THE MOLTEN STATE  
IZVESTIYA AKADEMII NAUK SSSR, NEORGANICHESKIE MATERIALY 8(5), 956 (1972)
731. BATYGOV, SK; OSIKO, VV.  
MOBILITY OF INTERSTITIAL FLUORINE IN FLUORITE CRYSTALS  
SOVIET PHYSICS SOLID STATE, USSR 13(8), 1886 (1972)
732. ALEKSANDROV, V. I.; LOMONOVA, E. E.; MAJER, A. A.; OSIKO, V. V.;  
TATARINTSEV, V. M.; YDOVENCHIK, V. T..  
PHYSICAL PROPERTIES OF ZIRCONIA AND HAFNIA SINGLE CRYSTALS  
BULL. LEBEDEV PHYS. INST. (FIAN). 11, 3 (1972)
733. OSIKO, VV; SHCHERBA.IA.  
CALCULATION OF POINT-DEFECT EQUILIBRIUM IN CaF<sub>2</sub>:NdF<sub>3</sub> CRYSTALS  
SOVIET PHYSICS SOLID STATE, USSR 13(4), 820 (1971)
734. VORONKO, YK; DENKER, BI; OSIKO, VV.  
X-RAY LUMINESCENCE OF ND<sup>3+</sup> IN LASER CRYSTALS  
SOVIET PHYSICS SOLID STATE, USSR 13(1), 141 (1971)
735. ALEKSANDROV, VI; VORONKO, YK; MIKHALEV.VG; OSIKO, VV; PROKHOROV,  
AM; TATARINTSEV, VM; UDOVENCHIK, VT; SHIPULO, GP.  
SPECTROSCOPIC PROPERTIES AND GENERATION OF ND<sup>3+</sup> IN ZrO<sub>2</sub> AND HfO<sub>2</sub>  
CRYSTALS  
DOKLADY AKADEMII NAUK SSSR 199(6), 1282 (1971)
736. IVLEVA, L.I.; KUZ'MINOV, YU.S.; OSIKO, V.V..  
ELECTRICAL CONDUCTIVITY OF LiNbO<sub>3</sub>  
IZVESTIYA AKADEMII NAUK SSSR, NEORGANICHESKIE MATERIALY 7(8), 1377 (1971)
737. VORON'KO, YU.K.; DENKER, B.I.; OSIKO, V.V..  
X-RAY LUMINESCENCE OF CaF<sub>2</sub>:TR<sup>3+</sup> CRYSTALS  
FIZIKA TVERDOGO TELA 13(8), 2193 (1971)

738. VORON'KO, YU.K.; OSIKO, V.V.; PROKHOROV, A.M.; SHCHERBAKOV, I.A..  
 INVESTIGATION OF THE ELEMENTARY MECHANISM OF EXCITATION ENERGY  
 TRANSFER BETWEEN RARE EARTH IONS IN CRYSTALS  
 ZHURNAL EKSPERIMENTAL'NOI I TEORETICHESKOI FIZIKI 60(3), 943 (1971)
739. VORONKO, YK; DMITRUK, MV; OSIKO, VV; SHCHERBA.IA.  
 EQUILIBRIUM OF IMPURITY DEFECTS IN CRYSTALS OF  $\text{CaF}_2\text{-Yb}^{3+}$   
 SOVIET PHYSICS SOLID STATE, USSR 13(6), 1348 (1971)
740. VORONKO, YK; OSIKO, VV; PROKHORO.AM; SHCHERBA.IA.  
 INVESTIGATION OF MECHANISM OF ELEMENTARY ACT OF EXCITATION-ENERGY  
 TRANSFER BETWEEN RARE-EARTH IONS IN CRYSTALS  
 SOVIET PHYSICS JETP-USSR 33(3), 510 (1971)
741. ALEKSANDROV, V. I.; OSIKO, V. V.; TAMARINTSEV, V. M.; ET AL..  
 MELTING OF REFRACTORY DIELECTRIC MATERIALS BY HIGH-TEMPERATURE HEATING  
 PRIBOR. TEKHN. EKSPER (5), 222 (1970)
742. VORONKO, YK; DMITRUK, MV; MAKSIMOV.GV; OSIKO, VV; TIMOSHEC.MI;  
 SHCHERBA.IA.  
 REDUCED ABSORPTION OF  $\text{Nd}^{3+}$  ION IN VARIOUS BASES  
 SOVIET PHYSICS JETP-USSR 30(1), 68 (1970)
743. VORONKO, YK; OSIKO, VV; SCHERBAK.IA.  
 INVESTIGATION OF INTERACTION OF  $\text{Nd}^{3+}$  IONS IN  $\text{CaF}_2$ ,  $\text{SrF}_2$ , AND  $\text{BaF}_2$  CRYSTALS  
 (TYPE I)  
 SOVIET PHYSICS JETP-USSR 28(5), 838 (1969)
744. VORONKO, YK; OSIKO, VV; SHCHERBA.IA.  
 OPTICAL CENTERS AND INTERACTION OF  $\text{Yb}^{3+}$  IONS IN CUBIC FLUORITE CRYSTALS  
 SOVIET PHYSICS JETP-USSR 29(1), 86 (1969)
745. VORONKO, YK; DENKER, BI; OSIKO, VV; PROKHORO.AM; TIMOSHEC.MI.  
 X-RAY LUMINESCENCE OF RARE-EARTH ELEMENTS IONS IN CRYSTALS  $\text{Y}_3\text{Al}_5\text{O}_{12}$   
 DOKLADY AKADEMII NAUK SSSR 188(6), 1258 (1969)
746. VORON'KO, YU.K.; OSIKO, V.V.; SHCHERBAKOV, I.A..  
 OPTICAL CENTERS AND THE INTERACTION OF  $\text{Yb}^{3+}$  IONS IN CUBIC FLUORITE  
 CRYSTALS  
 ZHURNAL EKSPERIMENTAL'NOI I TEORETICHESKOI FIZIKI 56(1), 151 (1969)
747. VORONKO, Y.K.; DMITRUK, M.V.; KAMINSKII, A.A.; OSIKO, V.V.; SHPAKOV,  
 V.N..  
 CONTINUOUS STIMULATED RADIATION OF A  $\text{LaF}_3\text{-Nd}^{3+}$  LASER AT ROOM  
 TEMPERATURE  
 ZHURNAL EKSPERIMENTAL'NOI I TEORETICHESKOI FIZIKI 54(3), 751 (1968)
748. BRUK, ZM; VORONKO, YK; MAKSIMOVA, GV; OSIKO, VV; PROKHOROV, AM;  
 SHPILOV, KF; SHCHERBAKOV, IA.  
 OPTICAL PROPERTIES AND STIMULATED EMISSION OF  $\text{Nd}^{3+}$  IN FLUOR-APATITE  
 JETP LETTERS-USSR 8(7), 221 (1968)
749. VORONKO, Y; DMITRUK, MV; OSIKO, VV; UDOVENCH.VT.  
 EXCITATION ENERGY TRANSFERS IN  $\text{CaF}_2$  CRYSTALS  
 SOVIET PHYSICS JETP-USSR 27(2), 197 (1968)
750. VORONKO, YK; MIKAELYA.RG; OSIKO, VV.  
 INVESTIGATION OF  $\text{Nd}^{3+}$  OPTICAL CENTER IN  $\text{CaF}_2\text{-Nd}^{3+}\text{-Tr}^{3+}$  CRYSTALS (TYPE 1)  
 SOVIET PHYSICS JETP-USSR 26(2), 318 (1968)

751. DMITRUK, MV; KAMINSKII, AA; OSIKO, VV; TEVOSYAN, TA.  
INDUCED EMISSION OF HEXAGONAL LAF<sub>3</sub>-SRF<sub>2</sub>-ND<sub>3</sub><sup>+</sup> CRYSTALS AT ROOM-TEMPERATURE  
PHYSICA STATUS SOLIDI 25(2), K75 (1968)
752. ZOLOTOV, E.M.; OSIKO, V.V.; PROKHOROV, A.M.; SNIPULO, G.P..  
INVESTIGATING THE LUMINESCENT AND LASER PROPERTIES OF SRF<sub>2</sub>:DY<sub>2</sub><sup>+</sup> CRYSTALS  
ZHURNAL PRIKLADNOI SPEKTROSKOPII 8(6), 1046 (1968)
753. VORONKO, YK; DMITRUK, MV; KAMINSKI.AA; OSIKO, VV; SHPAKOV, VN.  
CONTINUOUS STIMULATED EMISSION OF AN LAF<sub>3</sub>-ND<sub>3</sub><sup>+</sup> LASER AT ROOM TEMPERATURE  
SOVIET PHYSICS JETP-USSR 27(3), 400 (1968)
754. KAMINSKII, A.A.; OSIKO, V.V.; UDOVECHIK, V.T..  
STIMULATED EMISSION BY SRF<sub>2</sub>. LAF<sub>2</sub>:ND<sub>3</sub><sup>+</sup> AT ROOM TEMPERATURE  
ZHURNAL PRIKLADNOI SPEKTROSKOPII 6(1), 40 (1967)
755. BODRETSOVA, A.I.; KAMINSKII, A.A.; LEVIKOV, S.I.; OSIKO, V.V..  
A QUASICONTINUOUS LASER WITH PIROTECHNICAL EXCITATION  
ZHURNAL PRIKLADNOI SPEKTROSKOPII 6(2), 254 (1967)
756. KAMINSKII, AA; VORONKO, YK; OSIKO, VV.  
MIXED SYSTEMS ON BASIS OF FLUORIDES AS NEW LASER MATERIALS FOR QUANTUM ELECTRONICS . OPTICAL AND EMISSION PARAMETERS  
PHYSICA STATUS SOLIDI 21(1), K17 (1967)
757. BODRETSOVA, A. I.; KAMINSKII, A. A.; LEVIKOV, S. I.; OSIKO, V. V..  
A QUASICONTINUOUS LASER WITH PYROTECHNICAL EXCITATION  
J. APPL. SPECTROSC. 6(2), 168 (1967)
758. KAMINSKII, A. A.; OSIKO, V. V.; UDOVENCHIK, V. T..  
ROOM-TEMPERATURE INDUCED EMISSION OF NEODYMIUM-DOPED SRF<sub>2</sub>LAF<sub>3</sub>, CRYSTALS  
JOURNAL OF APPLIED SPECTROSCOPY 6(1), 23 (1967)
759. BAGDASAROV, KS; VORONKO, YK; KAMINSKI.AA; OSIKO, VV; PROKHORO.AM.  
ROOM-TEMPERATURE INDUCED EMISSION OF YTTROFLUORITE CRYSTALS CONTAINING ND<sub>3</sub><sup>+</sup>  
SOVIET PHYSICS CRYSTALLOGRAPHY, USSR 10(5), 626 (1966)
760. KAMINSKI.AA; KORNIENK.LS; MAKSIMOV.GV; OSIKO, VV; PROKHORO.AM; SHIPULO, GP.  
A ROOM-TEMPERATURE CONTINUOUS CAW<sub>04</sub> - ND<sub>3</sub><sup>+</sup> LASER  
SOVIET PHYSICS JETP-USSR 22(1), 22 (1966)
761. VORONKO, YK; KAMINSKI.AA; OSIKO, VV.  
OPTICAL ER<sub>3</sub><sup>+</sup> CENTERS IN CUBIC CRYSTALS OF FLUORITE TYPE  
SOVIET PHYSICS JETP-USSR 23(1), 10 (1966)
762. VORONKO, YK; KAMINSKI.AA; OSIKO, VV.  
ANALYSIS OF OPTICAL SPECTRA OF CAF<sub>2</sub> - ND<sub>3</sub><sup>+</sup> (TYPE 1) CRYSTALS  
SOVIET PHYSICS JETP-USSR 22(2), 295 (1966)
763. VORONKO, YK; KAMINSKI.AA; OSIKO, VV.  
ANALYSIS OF OPTICAL SPECTRA OF PR<sub>3</sub><sup>+</sup> ND<sub>3</sub><sup>+</sup> EU<sub>3</sub><sup>+</sup> AND ER<sub>3</sub><sup>+</sup> IN FLUORITE CRYSTALS (TYPE 1) BY CONCENTRATION SERIES METHOD  
SOVIET PHYSICS JETP-USSR 22(3), 501 (1966)

764. VORONKO, Y.K.; KAMINSKY, A.A.; OSIKO, V.V..  
ANALYSIS OF THE OPTICAL SPECTRA OF CAF<sub>2</sub>-ND<sub>3</sub><sup>+</sup> CRYSTALS (TYPE I)  
ZHURNAL EKSPERIMENTAL'NOI I TEORETICHESKOI FIZIKI 49(2(8)), 420 (1965)
765. VORON'KO, YU.K.; OSIKO, V.V.; UDOVENCHIK, V.T.; FURSIKOV, M.M..  
OPTICAL PROPERTIES OF CAF<sub>2</sub>: DY<sub>3</sub><sup>+</sup> CRYSTALS  
FIZIKA TVERDOGO TELA 7(1), 267 (1965)
766. KAMINSKY, A.A.; KORNIENKO, L.S.; MAKSIMOVA, G.V.; OSIKO, V.V.;  
PROKHOROV, A.M.; SHIPULO, G.P..  
CONTINUOUS LASER ON CAWO<sub>4</sub> WITH ND<sub>3</sub><sup>+</sup> OPERATING AT ROOM TEMPERATURE  
ZHURNAL EKSPERIMENTAL'NOI I TEORETICHESKOI FIZIKI 49(1(7)), 31 (1965)
767. BAGDASAROV, KS; VORONKO, YK; KAMINSKII, AA; KROTOVA, LV; OSIKO, VV.  
MODIFICATION OF OPTICAL PROPERTIES OF CAF<sub>2</sub>-TR<sub>3</sub><sup>+</sup> CRYSTALS BY YTTRIUM  
IMPURITIES  
PHYSICA STATUS SOLIDI 12(2), 905 (1965)
768. OSIKO, VV.  
THERMODYNAMICS OF OPTICAL CENTERS IN CAF<sub>2</sub>-TR<sub>3</sub><sup>+</sup> CRYSTALS  
SOVIET PHYSICS SOLID STATE, USSR 7(5), 1047 (1965)
769. VORONKO, YK; KAMINSKI.AA; OSIKO, VV; PROKHORO.AM.  
STIMULATED EMISSION OF HO<sub>3</sub><sup>+</sup> IN CAF<sub>2</sub> AT LAMBDA=5512 A  
JETP LETTERS-USSR 1(1), 3 (1965)
770. VORON'KO, Y.K.; KANINSKII, A.A.; OSIKO, V.V.; PROKHOROV, A.N..  
SELECTIVE EXCITATION OF RARE EARTH ION CENTRES IN CRYSTALS  
ZHURNAL EKSPERIMENTAL'NOI I TEORETICHESKOI FIZIKI, PIS'MA V REDAKTSIYU 1(4),  
33 (1965)
771. VORONKO, YK; OSIKO, VV; UDOVENCH.VT; FURSIKOV, MM.  
OPTICAL PROPERTIES OF CAF<sub>2</sub>-DY<sub>3</sub><sup>+</sup> CRYSTALS  
SOVIET PHYSICS SOLID STATE, USSR 7(1), 204 (1965)
772. BORONKO, YK; KROTOVA, LV; OSIKO, VV; UDOVENCH.VT; FURSIKOV, MM.  
OPTICAL PROPERTIES OF CAF<sub>2</sub>-ND<sub>3</sub><sup>+</sup> CRYSTALS  
SOVIET PHYSICS SOLID STATE, USSR 7(6), 1450 (1965)
773. VORONKO, YK; KAMINSKI.AA; KORNIENK.LS; OSIKO, VV; PROKHORO.AM;  
UDOVENCH.VT.  
INVESTIGATION OF STIMULATED EMISSION OF CAF<sub>2</sub>-ND<sub>3</sub><sup>+</sup> (TYPE 2) CRYSTALS AT  
ROOM TEMPERATURE  
JETP LETTERS-USSR 1(2), 39 (1965)
774. GORBACHEVA, N.A.; OSIKO, V.V..  
CONCERNING THE VALENCE OF SN AND MN ACTIVATORS IN CRYSTAL PHOSPHORS  
CONFERENCE: 9TH ALL-UNION CONFERENCE ON LUMINESCENCE (CRYSTAL  
PHOSPHORS) LOCATION: KIEV, UKRAINIAN SSR, USSR DATE: 20-25 JUNE 1960 25(4),  
454 (1961)
775. OSIKO, VV; MAKSIMOVA, GV.  
THE VALENCY OF MANGANESE AS AN ACTIVATOR OF CRYSTALLOPHOSPHORS  
OPTIKA I SPEKTROSKOPIYA 9(4), 478 (1960)
776. OSIKO, VV.  
LOW-TEMPERATURE LUMINESCENCE OF ZINC OXIDE IN THE INFRARED REGION OF  
THE SPECTRUM  
OPTIKA I SPEKTROSKOPIYA 7(6), 770 (1959)

777. KONSTANTINOVASHLEZINGER, MA; OSIKO, VV; ULANOVSKAYA, LS.  
LYUMINOFOR TSINK-LITII-SILIKAT, AKTIVIROVANNYI MARGANTSEM  
ZHURNAL NEORGANICHESKOI KHIMII 3(6), 1286 (1958)