

# Анри Амвросьевич Рухадзе



9 июля 1930 года - 7 марта 2018 года

На 88-м году жизни скоропостижно скончался выдающийся ученый — физик, главный научный сотрудник теоретического отдела Института общей физики им. А. М. Прохорова РАН **Анри Амвросьевич Рухадзе** — кавалер Ордена «Знак Почета», «Ордена Трудового Красного Знамени», лауреат Государственной Премии СССР, медалей «За трудовую доблесть», «Ветеран труда», «За развитие науки и техники», иностранный член Национальной Академии наук республики Грузии, почетный доктор Софийского университета им. К. Охридского (Болгария), Института теоретической физики им. Н. Н. Боголюбова, Дагестанского государственного университета.

Профессор Рухадзе Анри Амвросьевич — специалист в области физики плазмы и физической электроники, автор более 600 научных публикаций, в том числе более 50 обзоров, 3 патентов и 22 монографий, опубликованных как в России, так и за рубежом.

Рухадзе А. А. заложил основы физики излучающей плазмы, под его руководством были созданы эффективные ультрафиолетовые источники света для накачки лазеров.

Анри Амвросиевич по праву считается создателем нового направления в физике плазмы — релятивистской плазменной СВЧ электроники. Он не только заложил основы теории этой новой области науки, но и совместно с учениками разработал теорию мощных импульсных источников СВЧ, которые были под его руководством реализованы в конкретных приборах.

Большое внимание Рухадзе А. А. уделял педагогической работе. Он преподавал в Московском инженерно-физическом институте, МГУ им. М.В. Ломоносова и Московском физико-техническом институте (государственный университет). Под его руководством выполнены сотни дипломных работ, защищены 76 кандидатских диссертаций, 34 его ученика стали докторами наук. Он был Учителем с большой буквы не только в науке, но и в жизни.

Ученики Рухадзе А. А. плодотворно работают во многих странах, в которых он читал лекции, либо проводил совместные исследования. Следует отметить, созданную им в Софийском университете научную школу профессоров Н. Николова, Н. Мартынова, И. Желязкова, С. Иванова, доцента В. Богданова. В Германии работают профессора Д. Зюндер, Р. Шретер и доктор С. Садыкова, в Сербии — профессор Б. Милич, в Сирии — Е. Абу Асали, в Турции — А. Иилмаз, Республике Корея — М. Ри-Хи. Много учеников Рухадзе А.А. трудятся в ближнем зарубежье и бывших республиках СССР.

Созданные им учебники и учебные пособия по электродинамике материальных сред и физике плазмы переведены на многие языки мира и пользуются широкой популярностью. За учебник «Основы электродинамики плазмы» Рухадзе А.А. вместе с Александровым А.Ф. и Богданкевич Л.С. были удостоены в 1991 году Государственной Премии Российской Федерации. Анри Рухадзе по праву считается создателем ведущей школы по физике плазмы и теоретической физике в России.

Особо следует отметить издательскую деятельность А.А. Рухадзе. Начиная с самого начала научной деятельности, он много переводил и редактировал переводы зарубежной научной литературы, среди которых знаменитая монография Ричарда Файмана «Квантовая электродинамика», учебники Г. Эккера и Р. Балеску по кинетике плазмы и ряд других. В 2004—2005 года редколлекцией, в состав которой от России входили Рухадзе А.А., Уруцкоев Л.И., Смык В.Ф., Рыбаков Ю.П. и Самсоненко Н.Ф., под руководством Ж. Лошака (Франция) было подготовлено и издано систематизированное четырёхтомное собрание трудов великого французского физика Луи де Бройля, одного из создателей квантовой механики. Это уникальное издание, аналогов которого нет даже во Франции.

Рухадзе Анри Амвросьевич — мыслитель, строитель изящного здания теоретической физики И. Е. Тамма. в Физическом институте. Принципы допуска в это здание — честность в исследованиях, исключение любой политической конъюнктуры, бесстрашие и фундаментальность — постоянно были основой его работы. Большая плеяда учеников, кандидатов и докторов наук, создавших под его научным руководством значимое по результатам и признанное во всех странах направление в науке: электромагнитные свойства, электродинамика и излучение плазменной среды, неуклонно следовала этим принципам. Нарушение этих принципов любым строителем здания физики исключало его из сообщества физиков. Особо наказывалось воровство чужих идей — плагиат.

Важной чертой его научной деятельности всю жизнь была поддержка новейших научных идей, ломающих традиционные представления о мире укоренившихся научных школ, часто заменивших творчество, всплески мысли ремеслом. Не один раз в разговорах с ним звучала его убеждённость в том, что человечество находится накануне революционных изменений в системе научных представлений о мире и человеке, и к которой мы в своём мышлении должны быть готовы.

Главный критерий истинности новых знаний — корректно поставленный эксперимент. Поэтому он активно интересовался и поддерживал развитие общей теории относительности, теории гравитации, которая может радикально поменять технологические возможности космических полётов к другим мирам. Он внимательно изучал последние эксперименты, связанные с механизмом управляемого изменения элементов — так называемым «холодным ядерным синтезом». Особенно важным последствием этих работ он считал создание новой энергетики и возможность очистки значительных территорий от

радиоактивных загрязнений. Успешные эксперименты этого направления он считал реализацией идеи Курчатова И. В. о «холодном» ядерном синтезе без дорогостоящего горячего «термояда».

Работу Комиссии по лженауке он считал вредной и сдерживающей прорывы в науке и технологиях, но в то же время сам был крайне нетерпим по отношению к обману и прямому мошенничеству в научных результатах.

Образ человека могучего интеллекта, благородного строителя здания теоретической физики, устремленного в будущее, человека с жизнеутверждающим юмором сохранится в наших умах и сердцах.

*«В Российской академии наук сегодня, похоже, в цене только те новые идеи, которые не отрицают старые. Так, моим знакомым (да и мне самому) не раз при отстаивании новых и уже почти победивших идей приходилось слышать один «весомый» контраргумент: обсуждаемая идея ставит крест на работах целого поколения известных ученых, все эти ученые — хорошие люди, и надо подождать с восстановлением истины, пока они хотя бы не выйдут на пенсию. О какой тяге к научной истине у людей с такой психологией можно говорить?»*

*Анри Рухадзе «События и люди»*

[https://regnum.ru/uploads/docs/2018/03/10/regnum\\_file\\_15206841112113726.pdf](https://regnum.ru/uploads/docs/2018/03/10/regnum_file_15206841112113726.pdf)

Источник: <https://regnum.ru/news/2388675.html>

## Список основных научных публикаций А.А. Рухадзе

### Книги и учебные пособия:

1. В.П. Силин, А.А. **Рухадзе**  
Электромагнитные свойства плазмы и плазмоподобных сред. – М. : Госатомиздат, 1961. - 244 сс. ; - Изд. 2-е, испр. - Москва : URSS, 2012. - 243, [1] с.; 21 см.; ISBN 978-5-397-03015-1
2. В.Л. Гинзбург, А.А. **Рухадзе**  
Волны в магнитоактивной плазме. (Современные проблемы физики). – М.: Наука, Глав. ред. физико-математической лит-ры, 1970. (2-е изд. — М.: Наука, 1975. — 254 сс.; - 3-е изд. - Москва, 2012. - 255 сс. : ил.; ISBN 978-5-397-03297-1; Пер. на англ. Ginzburg, V. L.; Rukhadze, A. A.; Ed. By Flugge, S. Waves in magnetoactive plasma, *Handbook Electrophysics v. 49*; Springer, Berlin, Germany, - 395 pp. (1972))
3. А.А. **Рухадзе**, А.Ф. Александров  
Физика сильноточных электроразрядных источников света. – М.: Атомиздат, 1976. (- Изд. 2-е. - Москва, 2012. - 183, [1] сс. : ил.; ISBN 978-5-397-03177-6)

4. Александров А. Ф., Богданкевич Л. С., **Рухадзе А. А.** Основы электродинамики плазмы. М: Высшая школа, 1978, 1988. Перевод на англ. язык: Aleksandrov, A. F.; Bogdankevich, L. S.; Rukhadze, A. A. Basics of plasma electrodynamics; Springer, Heidelberg, (1978); Alexandrov, A. F.; Bogdankevich, L. S.; Rukhadze, A. A. Principles of plasma electrodynamics; Springer Verlag, Berlin 9, (1984)
5. А. А. **Рухадзе**, Л. С. Богданкевич, С. Е. Росинский, В. Г. Рухлин  
Физика сильноточных релятивистских электронных пучков; под ред. А. А. **Рухадзе**. - М. : Атомиздат, 1980. - 167 сс. : ил.
6. Ерохин Н. С., Кузелев М. В., Моисеев С. С., **Рухадзе А. А.**  
Неравновесные и резонансные процессы в плазменной радиофизике. М: Наука, 1982
7. А. Ф. Александров, Л. С. Богданкевич, А. А. **Рухадзе**  
Колебания и волны в плазменных средах. - М. : Изд-во МГУ, 1990. - 270, [1] сс. ISBN 5-211-00980-0
8. М.В. Кузелев, А.А. **Рухадзе**  
Электродинамика плотных электронных пучков в плазме М: Наука, 1990, 2018
9. Александров А. Ф., **Рухадзе А. А.** Лекции по электродинамике плазмоподобных сред. М: Изд. МГУ, 1999
10. М.В. Кузелев, А.А. **Рухадзе**, П.С. Стрелков  
Плазменная релятивистская СВЧ-электроника : Учеб. пособие для студентов вузов, обучающихся по направлению "Физика" и специальностям "Физика", "Радиоэлектроника и электроника"; Под ред. А.А. **Рухадзе**. - М. : Изд-во МГТУ им. Н.Э. Баумана, 2002. - 543 сс. : ил., табл.; ISBN 5-7038-2004-9
11. Александров А. Ф., **Рухадзе А. А.** Лекции по электродинамике плазмоподобных сред. Неравновесные среды. М: Изд. МГУ, 2002
12. А. А. **Рухадзе**, А. М. Игнатов, Н. Г. Гусейн-заде  
Введение в электродинамику плазмы : учебное пособие; Федеральное агентство по образованию, Гос. образовательное учреждение высш. проф. образования "Московский гос. ин-т радиотехники, электроники и автоматики (технический ун-т)". – М.: Московский гос. ин-т радиотехники, электроники и автоматики (технический ун-т), 2007. - 179 сс. : ил.; ISBN 978-5-7339-0649-2
13. Кузелев М. В., **Рухадзе А. А.**, Методы теории волн в средах с дисперсией. — М. Фиэмагиз, 2007, перевод на англ. язык: Methods of Waves Theory in Dispersive Media, World Publisher, Zhurikh, 2009

## Статьи:

14. KUZELEV, MV; RUKHADZE, AA.  
WAVES IN INHOMOGENEOUS PLASMAS AND LIQUID AND GAS FLOWS. ANALOGIES BETWEEN ELECTRO- AND GAS-DYNAMIC PHENOMENA  
PHYSICS-USPEKHI 61(8), 748-764 (2018)
15. MINAEV, I; RUKHADZE, A; GORYACHKIN, P; CHERNIKOV, V.  
EFFECT OF THE WATER AND BARRIER SUBMERSION DEPTHS ON THE CHARACTERISTICS OF A HIGH-VOLTAGE DISCHARGE PROPAGATING OVER A WATER SURFACE  
PLASMA PHYSICS REPORTS 44(6), 588-593 (2018)
16. KRALKINA, EA; RUKHADZE, AA; NEKLIUDOVA, PA; PAVLOV, VB; PETROV, AK; VAVILIN, KV.  
RF POWER ABSORPTION BY PLASMA OF LOW PRESSURE LOW POWER INDUCTIVE DISCHARGE LOCATED IN THE EXTERNAL MAGNETIC FIELD  
AIP ADVANCES 8(3), - (2018)
17. KUKUSHKIN, AV; RUKHADZE, AA.  
SURFACE WAVES ON THE BOUNDARY OF A CONDUCTING MEDIUM AND THEIR EXCITATION BY A RELATIVISTIC ELECTRON BEAM  
PLASMA PHYSICS REPORTS 43(9), 937-942 (2017)
18. KRYLOV, VI; RUKHADZE, AA; NEFEDOV, VI.  
ON A PARTIAL SOLUTION OF THE DIFFUSION EQUATION  
BULLETIN OF THE LEBEDEV PHYSICS INSTITUTE 44(2), 36-39 (2017)
19. GABYSHEV, DN; RUKHADZE, AA.  
STRONGLY NONLINEAR ION-ACOUSTIC SOLITON WITH RELATIVISTIC ELECTRONS  
BULLETIN OF THE LEBEDEV PHYSICS INSTITUTE 44(1), 17-20 (2017)
20. ZADIRIEV, II; RUKHADZE, AA; KRALKINA, EA; VAVILIN, KV; PAVLOV, VB; TARAKANOV, VP.  
MATHEMATICAL SIMULATION OF A LOW-PRESSURE CAPACITIVE RF DISCHARGE IN AN EXTERNAL RADIAL MAGNETIC FIELD USING THE KARAT CODE  
TECHNICAL PHYSICS 61(11), 1603-1608 (2016)
21. GUSEIN-ZADE, NG; KUKUSHKIN, AV; RUKHADZE, AA.  
FRESNEL PROBLEM AND SURFACE WAVES  
BULLETIN OF THE LEBEDEV PHYSICS INSTITUTE 43(6), 199-202 (2016)
22. ALISULTANOV, ZZ; RUKHADZE, AA.  
ON THE SURFACE ELECTROMAGNETIC WAVES IN SINGLE-LAYER METAL-LIKE MATERIALS  
BULLETIN OF THE LEBEDEV PHYSICS INSTITUTE 43(3), 98-101 (2016)
23. URUTSKOEV, LI; FILIPPOV, DV; RUKHADZE, AA; ALABIN, KA; LEVANOV, AA.  
ON THE POSSIBILITY OF INDUCED ALPHA-DECAY OF URANIUM  
JOURNAL OF ADVANCED PHYSICS 5(1), 97-103 (2016)
24. KRALKINA, EA; RUKHADZE, AA; PAVLOV, VB; VAVILIN, KV; NEKLIUDOVA, PA; PETROV, AK; ALEXANDROV, AF.  
RF POWER ABSORPTION BY PLASMA OF A LOW-PRESSURE INDUCTIVE DISCHARGE  
PLASMA SOURCES SCIENCE & TECHNOLOGY 25(1), - (2016)
25. ANDREEV, NE; GUREVICH, AV; KARAS, VI; KELDYSH, LV; KOLACHEVSKY, NN; KONDRAT'EV, AS; KROKHIN, ON; OKULOV, VI; PELETMINSKY, SV; POPOV, VY; RUKHADZE, AA; URYUPIN, SA.  
VIKTOR PAVLOVICH SILIN (ON HIS 90TH BIRTHDAY)  
PHYSICS-USPEKHI 59(6), 611-612 (2016)

26. TRIGGER, SA; GRIBOV, IA; RUKHADZE, AA.  
COSMOLOGICAL CONSEQUENCES OF THE PARTICLE-ANTIPARTICLE GRAVITATIONAL REPULSION  
HYPOTHESIS: THE NEWTONIAN MODEL OF THE UNIVERSE  
BULLETIN OF THE LEBEDEV PHYSICS INSTITUTE 43(1), 1-4 (2016)
27. MOVSESYANTS, YB; RUKHADZE, AA; TYURYUKANOV, PM.  
KADOMTSEV-PETVIASHVILI EQUATION FOR A FLOW OF HIGHLY NONISOTHERMAL  
COLLISIONLESS PLASMA  
PLASMA PHYSICS REPORTS 42(1), 25-31 (2016)
28. BOGACHEV, NN; BOGDANKEVICH, IL; GUSEIN-ZADE, NG; RUKHADZE, AA.  
SURFACE WAVE AND LINEAR OPERATING MODE OF A PLASMA ANTENNA  
PLASMA PHYSICS REPORTS 41(10), 792-798 (2015)
29. RUKHADZE, AA; SAMKHARADZE, TG.  
ON THE POSSIBILITY OF THE EXISTENCE OF SHOCK WAVES IN NONISOTHERMIC PLASMA  
BULLETIN OF THE LEBEDEV PHYSICS INSTITUTE 42(10), 288-290 (2015)
30. RUKHADZE, AA; SADKOVA, SP; SAMKHARADZE, TG.  
DOES THE SHOCK WAVE IN A HIGHLY IONIZED NON-ISOTHERMAL PLASMA REALLY EXIST?  
JOURNAL OF APPLIED PHYSICS 118(10), - (2015)
31. GABYSHEV, DN; RUKHADZE, AA.  
ON THE WAVE INTERACTION OF ELECTRONS WITH DEGENERATE ELECTRONS IN CRYOGENIC  
PLASMA  
BULLETIN OF THE LEBEDEV PHYSICS INSTITUTE 42(9), 277-282 (2015)
32. SADKOVA, SP; RUKHADZE, AA; SAMKHARADZE, TG.  
A NEW SCHEME FOR HIGH-INTENSITY LASER-DRIVEN ELECTRON ACCELERATION IN A PLASMA  
CONTRIBUTIONS TO PLASMA PHYSICS 55(8), 619-624 (2015)
33. KONOVALOV, VN; KUZ'MIN, GP; MINAEV, IM; RUKHADZE, AA; TIKHONOVICH, OV.  
PLASMA CHANNEL CREATED BY IONIZATION OF GAS BY A SURFACE WAVE  
PLASMA PHYSICS REPORTS 41(9), 769-772 (2015)
34. KONOVALOV, VN; KUZ'MIN, GP; MINAEV, IM; RUKHADZE, AA; TIKHONOVICH, OV.  
DEVELOPMENT OF THE PLASMA CHANNEL OF A PLASMA DIPOLE ANTENNA CREATED BY THE  
RADIATION OF A TRANSMITTER  
JOURNAL OF COMMUNICATIONS TECHNOLOGY AND ELECTRONICS 60(7), 784-788 (2015)
35. ANDREEV, SN; GABYSHEV, DN; EREMEICHEVA, YI; MAKAROV, VP; RUKHADZE, AA; TARAKANOV,  
VP.  
MOTION OF A CHARGED PARTICLE IN A PLANE ELECTROMAGNETIC PULSE  
LASER PHYSICS 25(6), - (2015)
36. BITYUKOV, VK; RUKHADZE, AA.  
WAVE INTERACTION OF ELECTRONS IN CRYOGENIC PLASMA-LIKE MEDIUM WITH DEGENERATE  
ELECTRONS  
BULLETIN OF THE LEBEDEV PHYSICS INSTITUTE 42(3), 67-70 (2015)
37. ZADIRIEV, I.I.; RUKHADZE, A.A.; KRALKINA, E.A.; VAVILIN, K.V.; PAVLOV, V.B..  
ABOUT POSSIBILITY OF APPLYING A CAPACITIVE RF DISCHARGE TO THE HALL ION SOURCES  
AND THRUSTERS  
APPLIED PHYSICS (6), 57 (2015)
38. SALTUGANOV, PN; IONIN, AA; KUDRYASHOV, SI; RUKHADZE, AA; GAVRILOV, AI; MAKAROV, SV;  
RUDENKO, AA; ZAYARNY, DA.

FABRICATION OF SUPERHYDROPHOBIC COATING ON STAINLESS STEEL SURFACE BY FEMTOSECOND LASER TEXTURING AND CHEMISORPTION OF AN HYDROPHOBIC AGENT  
JOURNAL OF RUSSIAN LASER RESEARCH 36(1), 81-85 (2015)

39. RUKHADZE, AA.  
AA VLASOV AND COLLISIONLESS LANDAU DAMPING  
PROBLEMS OF ATOMIC SCIENCE AND TECHNOLOGY (4), 229-231 (2015)
40. RUKHADZE, AA.  
BASIC STAGES IN FUNDAMENTAL PHYSICS OF COLLISIONLESS PLASMA  
PROBLEMS OF ATOMIC SCIENCE AND TECHNOLOGY (4), 3-8 (2015)
41. ANDREEV, S.N.; RUKHADZE, A.A.; SADYKOVA, S.P.; SAMKHARADZE, T.G..  
ON THE LIMITING PARAMETERS OF ACCELERATION OF AN RELATIVISTIC ELECTRON BY  
FORWOTER PLASMA WAVE, EXCITED BY POWERFUL LASER PULSE IN PLASMA  
ENGINEERING PHYSICS (2), 46 (2014)
42. RUKHADZE, A. A..  
ON THE STRUCTURE OF STRONG IONIZING SHOCK WAVES IN HIGH-PRESSURE GASES  
ENG. PHYS. 14, 14 (2014)
43. RUKHADZE, A.A..  
ON THE CONDITIONS OF APPLICABILITY OF DRUDE'S FORMULA  
ENGINEERING PHYSICS (1), 27 (2014)
44. MAKAROV, VP; RUKHADZE, AA.  
ON THE KRAMERS-KRONIG RELATION WITH ACCOUNT OF SPATIAL DISPERSION  
PROBLEMS OF ATOMIC SCIENCE AND TECHNOLOGY (4), 53-55 (2013)
45. RUKHADZE, AA; SADYKOVA, SP.  
ON THE ANOMALOUS DIFFUSION IN NONISOTHERMAL PLASMA  
PHYSICS OF PLASMAS 19(7), - (2012)
46. URUTSKOEV, LI; RUKHADZE, AA; FILIPPOV, DV; BIRYUKOV, AO; SHPAKOVSKII, TV; STESHENKO,  
GK; MARKOLIYA, AA; ALABIN, KA; LEVANOV, AA; BELOUS, PV.  
STUDY OF THE SPECTRAL COMPOSITION OF OPTICAL RADIATION DURING ELECTRICAL  
EXPLOSION OF A TUNGSTEN WIRE  
BULLETIN OF THE LEBEDEV PHYSICS INSTITUTE 39(7), 199-203 (2012)
47. RUKHADZE, AA; SADYKOVA, SP.  
INTERACTION OF ULTRARELATIVISTIC ELECTRON AND PROTON BUNCHES WITH DENSE  
PLASMAS  
PHYSICAL REVIEW SPECIAL TOPICS-ACCELERATORS AND BEAMS 15(4), - (2012)
48. TSARKOVA, OG; RUKHADZE, AA; TARAKANOV, VP; TSVETKOV, VB; GARNOV, SV; NAZARENKO,  
VV; NOSATENKO, PY; VYSKUBENKO, BA.  
ESTIMATION OF THE ABSORPTIVITY OF A CONSTRUCTIVE MATERIAL AT UNKNOWN LOSSES IN  
ABLATION PLUME DURING LASER ABLATION  
PHYSICS OF WAVE PHENOMENA 20(1), 18-23 (2012)
49. TSARKOVA, OG; TSVETKOV, VB; RUKHADZE, AA; GARNOV, SV; NAZARENKO, VV; NOSATENKO,  
PY.  
ANALYSIS OF THE SIZES AND NUMBER OF MICROPARTICLES IN THE ABLATION PLUME, WHICH  
ATTENUATES LASER RADIATION DURING ABLATION OF A CONSTRUCTIVE MATERIAL  
PHYSICS OF WAVE PHENOMENA 20(1), 24-34 (2012)

50. KUKUSHKIN, AV; RUKHADZE, AA; RUKHADZE, KZ.  
ON THE EXISTENCE CONDITIONS FOR A FAST SURFACE WAVE  
PHYSICS-USPEKHI 55(11), 1124-1133 (2012)
51. MAKAROV, VP; RUKHADZE, AA.  
LIGHT PRESSURE ON A SOLID BODY IMMERSSED IN A LIQUID MEDIUM  
QUANTUM ELECTRONICS 42(9), 848-852 (2012)
52. ANDREEV, SN; GARANIN, SG; YEREMICHEVA, YI; RUKHADZE, AA; TARAKANOV, VP; YAKUTOV, BP.  
OPTIMISATION OF NEUTRON YIELD UNDER ULTRA-INTENSE LASER IMPACT ON DEUTERATED POLYETHYLENE TARGETS  
QUANTUM ELECTRONICS 42(7), 600-604 (2012)
53. KUZELEV, MV; OMAROV, OA; RUKHADZE, AA.  
MICROWAVE AND OPTICAL BREAKDOWNS OF GASES AND FIELD HARMONIC GENERATION  
BULLETIN OF THE LEBEDEV PHYSICS INSTITUTE 39(1), 1-6 (2012)
54. KIRSANOV, N.A.; KONOVALOV, V.N.; MINAEV, I.M.; RUKHADZE, A.A..  
THE CONDITIONS OF SURFACE WAVES EXISTENCE ON THE SURFACE OF CONDUCTING MEDIA IN PLASMA ANTENNAE  
RADIO ENGINEERING (10), 124 (2012)
55. BOBYLEV, YV; PANIN, VA; KUZELEV, MV; RUKHADZE, AA.  
COMPUTATIONAL MODELING OF STABILIZING THE INSTABILITY OF A RELATIVISTIC ELECTRON BEAM IN A DENSE PLASMA  
PLASMA PHYSICS REPORTS 37(13), 1125-1138 (2011)
56. SILIN, VP; BOLOTOVSKII, VM; RUKHADZE, AA; IGNATOV, AM; DANILKIN, IS; KOVRIZHNYKH, LM; ALEXANDROV, AF; ROMANOVSKII, YM; STRELKOV, PS; BOGDANKEVICH, IL.  
IN MEMORY OF LARISA SEMENOVNA BOGDANKEVICH (APRIL 29, 1929-JUNE 27, 2011)  
PLASMA PHYSICS REPORTS 37(12), 1073-1073 (2011)
57. GUSEIN-ZADE, NG; MINAEV, IM; RUKHADZE, AA; RUKHADZE, KZ.  
PHYSICAL PRINCIPLES OF PLASMA ANTENNA OPERATION  
JOURNAL OF COMMUNICATIONS TECHNOLOGY AND ELECTRONICS 56(10), 1207-1211 (2011)
58. KUZELEV, MV; RUKHADZE, AA.  
NON-RELATIVISTIC QUANTUM THEORY OF INDUCED CHERENKOV RADIATION AND COMPTON SCATTERING IN PLASMA  
LOW TEMPERATURE PHYSICS 37(9-10), 785-790 (2011)
59. OMAROV, OA; RUKHADZE, AA.  
ON THE PLASMA MECHANISM OF DEVELOPING THE EARLY STAGES OF BREAKDOWN IN GASES  
TECHNICAL PHYSICS 56(7), 944-949 (2011)
60. ALIEV, YM; ANOSOVA, LM; BAR'YAKHTAR, VG; VAGIN, KY; IGNATOV, AM; KARAS', VI; KROKHIN, ON; MALISHEVSKII, AS; OVCHINNIKOV, KN; PELETMINSKII, SV; RAMAZASHVILI, RR; ROMANOV, AY; RUKHADZE, AA; STEPANOV, KN; URYUPIN, SA.  
VIKTOR PAVLOVICH SILIN (IN HONOR OF HIS 85TH BIRTHDAY)  
PLASMA PHYSICS REPORTS 37(5), 474-475 (2011)
61. GUSEIN-ZADE, NG; MINAEV, IM; RUKHADZE, AA; RUKHADZE, KZ.  
PHYSICAL PRINCIPLES OF PLASMA DIPOLE AND SLOT ANTENNAS  
BULLETIN OF THE LEBEDEV PHYSICS INSTITUTE 38(3), 85-89 (2011)



62. ANDREEV, SN; GARANIN, SG; RUKHADZE, AA; TARAKANOV, VP; YAKUTOV, BP.  
SIMULATIONS OF NEUTRON EMISSION IN THE IRRADIATION OF DEUTERATED POLYETHYLENE  
BY ULTRAHIGH-INTENSITY LASER PULSES  
QUANTUM ELECTRONICS 41(4), 377-381 (2011)
63. KUZELEV, MV; RUKHADZE, AA.  
NONRELATIVISTIC QUANTUM THEORY OF STIMULATED CHERENKOV RADIATION AND  
COMPTON SCATTERING IN A PLASMA  
PHYSICS-USPEKHI 54(4), 375-380 (2011)
64. AVRORIN, EN; GOL'DIN, VY; ILKAEV, RI; KALITKIN, NN; NEZNAMOV, VP; RITUS, VI; RUKHADZE,  
AA; RYABEV, LD; SILIN, VP; FORTOV, VE; KHOLIN, SA.  
IN MEMORY OF YURII ALEKSANDROVICH ROMANOV  
PHYSICS-USPEKHI 54(11), 1193-1194 (2011)
65. MAKAROV, VP; RUKHADZE, AA.  
NEGATIVE GROUP VELOCITY ELECTROMAGNETIC WAVES AND THE ENERGY-MOMENTUM  
TENSOR  
PHYSICS-USPEKHI 54(12), 1285-1296 (2011)
66. KUZ'MIN, GP; MINAEV, IM; RUKHADZE, AA.  
GASDYNAMIC FORM OF THE SLIDING DISCHARGE  
PLASMA PHYSICS REPORTS 36(12), 1082-1084 (2010)
67. MAKAROV, VP; RUKHADZE, AA; SAMOKHIN, AA.  
ON ELECTROMAGNETIC WAVES WITH A NEGATIVE GROUP VELOCITY  
PLASMA PHYSICS REPORTS 36(13), 1129-1139 (2010)
68. KIRTSHALIYA, VG; MINAEV, IM; RUKHADZE, AA; CHOGOVDZE, MV.  
ON THE ANALOGY OF STABILITY OF TANGENTIAL DISCONTINUITIES IN HYDRODYNAMICS AND  
IN NONISOTHERMAL COLLISIONLESS PLASMA  
PLASMA PHYSICS REPORTS 36(13), 1140-1145 (2010)
69. AVRORIN, EN; BOYARCHUK, AA; VELIKHOV, EP; GALEEV, AA; ZELENYI, LM; KAPITSA, SP;  
KARDASHEV, NS; KROKHIN, ON; MANAGADZE, GG; MIKHAILOVSKII, AB; RUKHADZE, AA;  
SAGDEEV, RZ; STEPANOV, KN; SYUNYAEV, RA; FRIDMAN, AM; CHEREPASHCHUK, AM;  
SHAFRANOV, VD.  
JUMBER GEORGIEVICH LOMINADZE (IN HONOR OF HIS 80TH BIRTHDAY)  
PLASMA PHYSICS REPORTS 36(9), 824-825 (2010)
70. KUZELEV, MV; RUKHADZE, AA.  
NON-RELATIVISTIC QUANTUM THEORY OF STIMULATED CHERENKOV RADIATION AND  
COMPTON SCATTERING IN PLASMA  
BULLETIN OF THE LEBEDEV PHYSICS INSTITUTE 37(8), 253-256 (2010)
71. ALEXANDROV, AF; VAVILIN, KV; KRAL'KINA, EA; PAVLOV, VB; RUKHADZE, AA; SAVINOV, VP;  
ZHAO, C; YAKUNIN, VG.  
EXPERIMENTAL STUDY OF PATTERNS OF ENERGY INPUT INTO HYBRID LOW PRESSURE  
DISCHARGE FOR VARYING RF GENERATOR POWER AND ARGON PRESSURE  
MOSCOW UNIVERSITY PHYSICS BULLETIN 65(4), 311-316 (2010)
72. KUZMIN, GP; MINAEV, IM; RUKHADZE, AA; TIKHONEVICH, OV.  
TEMPERATURE DEPENDENCE OF CHARACTERISTICS OF WATER-VAPOR ELECTRIC DISCHARGE  
BULLETIN OF THE LEBEDEV PHYSICS INSTITUTE 37(7), 216-218 (2010)

73. ALEKSANDROV, AF; KUZELEV, MV; RUKHADZE, AA.  
ON THE THEORY OF ELECTRIC CIRCUITS WITH PLASMA ELEMENTS  
JOURNAL OF COMMUNICATIONS TECHNOLOGY AND ELECTRONICS 55(7), 773-790 (2010)
74. URUTSKOEV, LI; FILIPPOV, DV; RUKHADZE, AA; BYSTROV, VP; DONTSOV, YP; PARBUZIN, VS;  
STEBLEVSKY, AV.  
RESEARCH OF A GAS PHASE UNDER ELECTRICAL EXPLOSION OF THE TITAN FOIL IN LIQUID  
ZEITSCHRIFT FUR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES 65(6-7),  
573-590 (2010)
75. URUTSKOEV, LI; FILIPPOV, DV; RUKHADZE, AA; LEBEDEV, LA.  
ANOMALOUS HYDROGEN EVOLUTION SUBJECT TO PULSED ELECTRIC EXPLOSION OF THIN  
TITANIUM FOILS IN WATER  
ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 239, - (2010)
76. ANDREEV, SN; RUKHADZE, AA; TARAKANOV, VP; YAKUTOV, BP.  
SIMULATION OF PHOTON ACCELERATION UPON IRRADIATION OF A MYLAR TARGET BY  
FEMTOSECOND LASER PULSES  
QUANTUM ELECTRONICS 40(1), 64-67 (2010)
77. MAKAROV, VP; RUKHADZE, AA.  
FORCE ACTING ON AN ATOM AND A CLASSICAL OSCILLATOR IN AN ELECTROMAGNETIC FIELD  
JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS 111(6), 891-897 (2010) MAKAROV,  
VP; RUKHADZE, AA.  
FORCE ACTING ON AN ATOM AND A CLASSICAL OSCILLATOR IN AN ELECTROMAGNETIC FIELD  
JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS 111(6), 891-897 (2010) ANDREEV, SN;  
GARANIN, SG; RUKHADZE, AA; TARAKANOV, VP; YAKUTOV, BP.  
SIMULATION OF GENERATION OF BREMSSTRAHLUNG GAMMA QUANTA UPON IRRADIATION  
OF THIN METAL FILMS BY ULTRA-INTENSE FEMTOSECOND LASER PULSES  
QUANTUM ELECTRONICS 40(4), 355-362 (2010)
78. ANDREEV, SN; MAKAROV, VP; RUKHADZE, AA.  
AVERAGE FORCE ACTING ON MATTER IN STRONG LASER FIELDS  
PROBLEMS OF ATOMIC SCIENCE AND TECHNOLOGY (4), 240-244 (2010)
79. MIRZAIE, M; SHOKRI, B; RUKHADZE, AA.  
THE REFLECTION OF AN ELECTROMAGNETIC WAVE FROM THE SELF-PRODUCED PLASMA  
PHYSICS OF PLASMAS 17(1), - (2010)
80. MAKAROV, V.P.; RUKHADZE, A.A.; SAMOKHIN, A.A..  
ABOUT ELECTROMAGNETIC WAVES WITH A NEGATIVE GROUP VELOCITY AND THEIR RELATED  
EFFECTS  
PRIKLADNAYA FIZIKA (5), 5 (2010)
81. OMAROV, OA; RUKHADZE, AA.  
ON THE THEORY OF PLASMA STREAMER DEVELOPMENT  
BULLETIN OF THE LEBEDEV PHYSICS INSTITUTE 36(10), 310-315 (2009)
82. MAKAROV, VP; RUKHADZE, AA.  
FORCE ACTING ON A SUBSTANCE IN AN ELECTROMAGNETIC FIELD  
PHYSICS-USPEKHI 52(9), 937-943 (2009)
83. BOBYLEV, YV; KUZELEV, MV; RUKHADZE, AA.  
ON THE NONLINEAR THEORY OF COLLECTIVE CHERENKOV INTERACTION OF A HIGH-DENSITY

- RELATIVISTIC BEAM WITH A PLASMA  
PLASMA PHYSICS REPORTS 35(6), 484-493 (2009)
84. MAKAROV, VP; RUKHADZE, AA.  
MINKOWSKI'S TENSOR OR ABRAHAM'S TENSOR?  
BULLETIN OF THE LEBEDEV PHYSICS INSTITUTE 36(2), 54-61 (2009)
85. KARTASHOV, IN; KUZELEV, MV; RUKHADZE, AA.  
ELECTROMAGNETIC BEAM-PLASMA INTERACTIONS IN A MAGNETIC FIELD  
PLASMA PHYSICS REPORTS 35(2), 169-176 (2009)
86. VOLODIN, KS; MINAEV, IM; RUKHADZE, AA; RUKHADZE, KZ; SERGEICHEV, KF.  
PLASMA CONTROL OF THE DIRECTIONAL PATTERN OF A MULTISLOT WAVEGUIDE ANTENNA  
PLASMA PHYSICS REPORTS 35(1), 50-53 (2009)
87. ANDREEV, SN; MAKAROV, VP; RUKHADZE, AA.  
ON THE MOTION OF A CHARGED PARTICLE IN A PLANE MONOCHROMATIC ELECTROMAGNETIC  
WAVE  
QUANTUM ELECTRONICS 39(1), 68-72 (2009)
88. KUZELEV, M.V.; RUKHADZE, A.A..  
GENERATION OF A STRONG HIGH FREQUENCY FIELD HARMONICS IN A PARTIALLY IONIZED GAS  
UPON IMPACT IONIZATIONS OF ATOMS  
PRIKLADNAYA FIZIKA (2), 17 (2009)
89. ALEKSANDROV, AF; KUZELEV, MV; RUKHADZE, AA.  
ELECTROMAGNETIC WAVES IN CYLINDRICAL PLASMA-DIELECTRIC STRUCTURES  
JOURNAL OF COMMUNICATIONS TECHNOLOGY AND ELECTRONICS 53(12), 1359-1379 (2008)
90. KUZELEV, MV; RUKHADZE, AA.  
STIMULATED CHERENKOV EMISSION IN GAS DYNAMICS  
JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS 107(5), 887-891 (2008)
91. KUZELEV, MV; RUKHADZE, AA.  
SPONTANEOUS AND STIMULATED EMISSION INDUCED BY AN ELECTRON, ELECTRON BUNCH,  
AND ELECTRON BEAM IN A PLASMA  
PHYSICS-USPEKHI 51(10), 989-1018 (2008)
92. MIRZAIE, M; SHOKRI, B; RUKHADZE, AA.  
THE REFLECTION INDEX OF AN UNSTEADY PLASMA  
JOURNAL OF PHYSICS D-APPLIED PHYSICS 41(17), - (2008)
93. BOBYLEV, YV; KUZELEV, MV; RUKHADZE, AA.  
NONLINEAR THEORY OF RELATIVISTIC BEAM-PLASMA INSTABILITIES IN THE REGIME OF THE  
COLLECTIVE CHERENKOV EFFECT  
PLASMA PHYSICS REPORTS 34(2), 103-120 (2008)
94. HATAMI, MM; NIKNAM, AR; SHOKRI, B; RUKHADZE, AA.  
NONLINEAR THERMOCURRENT BEAM INSTABILITY OF A WEAKLY IONIZED PLASMA  
PHYSICS OF PLASMAS 15(2), - (2008)
95. RUKHADZE, AA; RUKHADZE, KZ; TARAKANOV, VP.  
SIMULATION OF COULOMB EXPLOSION OF METALS  
TECHNICAL PHYSICS 53(2), 264-267 (2008)
96. KROKHIN, ON; SHCHERBAKOV, IA; RUKHADZE, AA.  
VYACHESLAV PETROVICH MAKAROV  
QUANTUM ELECTRONICS 38(2), 204-204 (2008)

97. ALAVI, SK; SHOKRI, B; RUKHADZE, AA.  
EXCITATION OF SURFACE ELASTICITY WAVES IN PIEZOELECTRIC MEDIA BY ION BEAMS  
WAVES IN RANDOM AND COMPLEX MEDIA 18(4), 623-626 (2008)
98. KUZELEV, MV; ROMANOV, RV; RUKHADZE, AA; KHUNDZHUA, NG.  
SURFACE WAVES AND SPACE CHARGE LAYERS IN A SPATIALLY INHOMOGENEOUS PLASMA  
PLASMA PHYSICS REPORTS 33(12), 982-989 (2007)
99. KUZELEV, MV; RUKHADZE, AA.  
GENERATION OF LASER-PULSE-FIELD HARMONICS IN A GAS UPON IMPACT IONISATION OF  
ATOMS  
QUANTUM ELECTRONICS 37(10), 924-926 (2007)
100. ALEKSANDROV, AF; VAVILIN, KV; KRAL'KINA, EA; PAVLOV, VB; RUKHADZE, AA.  
PROPERTIES OF A LOW-PRESSURE INDUCTIVE RF DISCHARGE I: EXPERIMENT  
PLASMA PHYSICS REPORTS 33(9), 733-745 (2007)
101. ALEKSANDROV, AF; VAVILIN, KV; KRAL'KINA, EA; PAVLOV, VB; RUKHADZE, AA.  
PROPERTIES OF A LOW-PRESSURE INDUCTIVE RF DISCHARGE II: MATHEMATICAL SIMULATIONS  
PLASMA PHYSICS REPORTS 33(9), 746-756 (2007)
102. RUKHADZE, AA; VAVILIN, KV.  
HELICON PLASMA SOURCE IN THE ION-ACOUSTIC FREQUENCY RANGE  
PLASMA PHYSICS REPORTS 33(9), 786-791 (2007)
103. KIRTSKHALIA, VG; RUKHADZE, AA.  
INSTABILITIES OF A TANGENTIAL DISCONTINUITY  
TECHNICAL PHYSICS 52(9), 1117-1120 (2007)
104. MIRZAIE, M; SHOKRI, B; RUKHADZE, AA.  
ANALYSIS OF OVERCRITICAL PLASMA PRODUCTION BY STRONG MICROWAVE FIELDS  
PLASMA PHYSICS AND CONTROLLED FUSION 49(8), 1335-1343 (2007)
105. KARTASHOV, IN; KUZELEV, MV; RUKHADZE, AA.  
VOLUME AND SURFACE LONGITUDINAL WAVES IN A COLD INHOMOGENEOUS  
MAGNETOPLASMA  
RADIOPHYSICS AND QUANTUM ELECTRONICS 50(3), 216-234 (2007)
106. TRIGGER, SA; VAN HEIJST, GJF; RUKHADZE, AA; SCHRAM, PPJM.  
REMARKS ON THE NYQUIST AND CALLEN-WELTON THEOREMS  
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS 374(1), 77-84 (2007)
107. KARTASHOV, IN; KUZELEV, MV; RUKHADZE, AA.  
UNIDIRECTIONAL ELECTROSTATIC WAVES IN AN INHOMOGENEOUS COLD MAGNETIZED  
PLASMA IN PLANE AND CYLINDRICAL WAVEGUIDES  
PLASMA PHYSICS REPORTS 32(11), 937-942 (2006)
108. ALEKSANDROV, AF; KUZELEV, MV; RUKHADZE, AA.  
KINETIC DESCRIPTION OF CYLINDRICAL PLASMA STRUCTURES  
JOURNAL OF COMMUNICATIONS TECHNOLOGY AND ELECTRONICS 51(10), 1179-1204 (2006)
109. MAKAROV, VP; RUKHADZE, AA.  
INVERTED (NEGATIVE) REFRACTION OF AN ELECTROMAGNETIC WAVE IN AN ANISOTROPIC  
MEDIUM  
JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS 103(3), 354-359 (2006)

110. RUKHADZE, AA; SHUSTIN, EG.  
POSSIBLE MECHANISM FOR RADIAL ION ACCELERATION IN A BEAM-PLASMA DISCHARGE  
PLASMA PHYSICS REPORTS 32(9), 775-779 (2006)
111. RUKHADZE, AA; TARAKANOV, VP.  
REFLECTION OF AN ELECTROMAGNETIC PULSE FROM A SUBCRITICAL WAVEGUIDE TAPER AND  
FROM A SUPERCRITICAL-DENSITY PLASMA IN A WAVEGUIDE  
QUANTUM ELECTRONICS 36(9), 883-888 (2006)
112. ALIEV, YM; ANDREEV, NE; ANOSOVA, LM; ARSENIN, VV; VAGIN, KY; GREBENSHCHIKOV, SE;  
GORBUNOV, LM; MALISHEVSKII, AR; OVCHINNIKOV, KN; RAMAZASHVILI, RR; ROMANOV, AY;  
RUKHADZE, AA; TIMOFEEV, AV; URYUPIN, SA; FROLOV, AA.  
VIKTOR PAVLOVICH SILIN - (IN HONOR OF HIS 80TH BIRTHDAY)  
PLASMA PHYSICS REPORTS 32(8), 703-703 (2006)
113. ISTOMIN, EN; KARFIDOV, DM; MINAEV, IM; RUKHADZE, AA; TARAKANOV, VP; SERGEICHEV, KF;  
TREFILOV, AY.  
PLASMA ASYMMETRIC DIPOLE ANTENNA EXCITED BY A SURFACE WAVE  
PLASMA PHYSICS REPORTS 32(5), 388-400 (2006)
114. RUKHADZE, AA; URUTSKOEV, LI; FILIPPOV, DV.  
EFFECT OF BETA DECAY TO BOUND STATES IN IONIZED ATOMS ON THE FRACTION OF DELAYED  
NEUTRONS  
PHYSICS OF ATOMIC NUCLEI 69(5), 792-795 (2006)
115. BOBROV, YK; BYSTROV, VP; RUKHADZE, AA.  
PHYSICAL MODEL OF THE CATHODE SPOT RETROGRADE MOTION  
TECHNICAL PHYSICS 51(5), 567-573 (2006)
116. SHOKRI, B; ALAVI, SK; RUKHADZE, AA.  
QUASI ELASTO-ELECTROMAGNETIC SURFACE WAVES ON A PIEZO-PLASMA-LIKE LAYER  
WAVES IN RANDOM AND COMPLEX MEDIA 16(2), 87-95 (2006)
117. KARTASHOV, IN; KUZELEV, MV; RUKHADZE, AA.  
SINGLE-PARTICLE CHERENKOV EFFECT IN A BOUNDED SPATIAL REGION  
TECHNICAL PHYSICS 51(2), 151-162 (2006)
118. KARTASHOV, IN; KUZELEV, MV; RUKHADZE, AA.  
COMPETITION BETWEEN INSTABILITIES UNDER THE CONDITIONS OF THE CHERENKOV AND  
ANOMALOUS DOPPLER RESONANT INTERACTIONS OF AN ELECTRON BEAM WITH LANGMUIR  
AND CYCLOTRON WAVES IN A MAGNETIZED PLASMA  
TECHNICAL PHYSICS 51(1), 34-39 (2006)
119. SHOKRI, B; ALAVI, SK; RUKHADZE, AA.  
SURFACE WAVES ON A PIEZO-PLASMA-LIKE MEDIUM  
PHYSICA SCRIPTA 73(1), 23-29 (2006)
120. BOBROV, YU. K.; BYSTROV, V. P.; RUKHADZE, A. A..  
A PHYSICAL MODEL OF THE REVERSE MOTION OF CATHODE SPOTS  
ZH. TEKH. FIZ. 7(5), 35 (2006)
121. RUKHADZE, A.A.; URUTSKOEV, L.I.; FILIPPOV, D.V..  
INCREASE OF THE FRACTION OF DELAYED NEUTRONS IN A SUPERSTRONG MAGNETIC FIELD  
PRIKLADNAYA FIZIKA (5), 8 (2006)
122. ALEKSANDROV, A. F.; BUGROV, G. E.; VAVILIN, K. V.; KERIMOVA, I. F.; KRAL'KINA, E. A.; PAVLOV,  
V. B.; POKHODIN, V. YU.; RUKHADZE, A. A..

ISSLEDOVANIE INDUKTIVNOGO VCHRAZRYADA KAK SAMOSOGLASOVANNOI SISTEMY. CHAST' IV. REZUL'TATY ISSLEDOVANIYA EKVALENTNOGO SOPROTVLENIYA INDUKTIVNOGO VCHRAZRYADA NIZKOGO DAVLENIYA BEZ MAGNITNOGO POLYA  
FIZIKA PLAZMY I PLAZMENNYE TEKHNologii (2), (2006)

123. ALEKSANDROV, AF; KUZELEV, MV; RUKHADZE, AA.  
RELATIVISTIC DIAMAGNETIC EQUILIBRIUM OF A THIN-WALLED ANNULAR ELECTRON BEAM IN AN EXTERNAL MAGNETIC FIELD  
PLASMA PHYSICS REPORTS 31(12), 1048-1053 (2005)
124. ISAEV, NV; RUKHADZE, AA; SHUSTIN, EG.  
MECHANISM FOR ION ACCELERATION ALONG THE NORMAL TO THE AXIS OF A BEAM-PLASMA DISCHARGE IN A WEAK MAGNETIC FIELD  
PLASMA PHYSICS REPORTS 31(11), 953-960 (2005)
125. KUZELEV, MV; RUKHADZE, AA.  
ANOMALOUS DOPPLER EFFECT AND STIMULATED CHERENKOV EFFECT IN A PLASMA WAVEGUIDE WITH A THIN-WALLED ANNULAR ELECTRON BEAM  
PLASMA PHYSICS REPORTS 31(8), 638-645 (2005)
126. KARTASHOV, IN; KUZELEV, MV; RUKHADZE, AA; JAVAN, NS.  
COLLECTIVE CHERENKOV EFFECT AND ANOMALOUS DOPPLER EFFECT IN A BOUNDED SPATIAL REGION  
TECHNICAL PHYSICS 50(3), 298-307 (2005)
127. KUZELEV, MV; ROMANOV, RV; RUKHADZE, AA.  
THEORY OF SLOW WAVES IN TRANSVERSELY NONUNIFORM PLASMA WAVEGUIDES  
PLASMA PHYSICS REPORTS 31(2), 147-166 (2005)
128. MINAEV, IM; RUKHADZE, AA.  
EFFECT OF A PLASMA LAYER ON THE VORTEX STRUCTURES IN A GAS FLOW  
TECHNICAL PHYSICS 50(2), 264-266 (2005)
129. VOLKOVISH, A.G.; GOVORUM, A.P.; GULYAEV, A.A.; ZHUKOV, S.V.; KUZNETSOV, V.L.; RUKHADZE, A.A.; STEBLEVSKII, A.V.; URUTSKOEV, L.L..  
EXPERIMENTAL OBSERVATION OF THE DISTORTION OF THE URANIUM ISOTOPIC RELATIONSHIP AND VIOLATION OF THE THORIUM-234 SECULAR EQUILIBRIUM UPON ELECTRIC EXPLOSION  
ANNALES DE LA FONDATION LOUIS DE BROGLIE 30(1), 63 (2005)
130. SHOKRI, B; GHORBANALILU, M; RUKHADZE, AA.  
LOW-FREQUENCY INSTABILITY OF PLASMAS PRODUCED BY LINEARLY POLARIZED MICROWAVE PULSED FIELDS  
PHYSICS LETTERS A 329(4-5), 362-368 (2004)
131. VAVILIN, KV; RUKHADZE, AA; RI, MK; PLAKSIN, VY.  
LOW-POWER INDUCTIVE RF PLASMA SOURCES FOR TECHNOLOGICAL APPLICATIONS  
PLASMA PHYSICS REPORTS 30(8), 687-697 (2004)
132. ALEKSANDROV, AF; BUGROV, GE; VAVILIN, KV; KERIMOVA, IF; KONDRANIN, SG; KRAL'KINA, EA; PAVLOV, VB; PLAKSIN, VY; RUKHADZE, AA.  
SELF-CONSISTENT MODEL OF AN INDUCTIVE RF PLASMA SOURCE IN AN EXTERNAL MAGNETIC FIELD  
PLASMA PHYSICS REPORTS 30(5), 398-412 (2004)
133. BOBYLEV, YV; KUZELEV, MV; RUKHADZE, AA.  
NONLINEAR THEORY OF THE COLLECTIVE CHERENKOV INTERACTION OF A DENSE RELATIVISTIC

ELECTRON BEAM WITH A DENSE PLASMA IN A WAVEGUIDE  
PLASMA PHYSICS REPORTS 30(5), 383-397 (2004)

134. MAKAROV, VP; RUKHADZE, AA.  
THE PERMITTIVITY OF A MONATOMIC GAS WITH SPATIAL DISPERSION  
JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS 98(2), 305-315 (2004)
135. KARTASHOV, IN; KUZELEV, MV; RUKHADZE, AA.  
AMPLIFICATION OF SURFACE WAVES IN A PLASMA WAVEGUIDE BY A STRAIGHT RELATIVISTIC  
ELECTRON BEAM IN A FINITE MAGNETIC FIELD  
PLASMA PHYSICS REPORTS 30(1), 56-61 (2004)
136. RUKHADZE, AA; YUSUPALIEV, U.  
ON THE FEASIBILITY OF THE COULOMB EXPLOSION OF A METAL  
TECHNICAL PHYSICS 49(7), 933-934 (2004)
137. VAVILIN, KV; RUKHADZE, AA; RI, MK; PLAKSIN, VY.  
LOW-POWER RF PLASMA SOURCES FOR TECHNOLOGICAL APPLICATIONS: I. PLASMA SOURCES  
WITHOUT A MAGNETIC FIELD  
TECHNICAL PHYSICS 49(5), 565-571 (2004)
138. VAVILIN, KV; PLAKSIN, VY; RI, KM; RUKHADZE, AA.  
LOW-POWER RF PLASMA SOURCES FOR TECHNOLOGICAL APPLICATIONS: II. PLASMA SOURCES  
UNDER ANOMALOUS SKIN EFFECT CONDITIONS  
TECHNICAL PHYSICS 49(6), 686-690 (2004)
139. VAVILIN, KV; RUKHADZE, AA; RI, KM; PLAKSIN, VY.  
LOW-POWER RF PLASMA SOURCES FOR TECHNOLOGICAL APPLICATIONS: III. HELICON PLASMA  
SOURCES  
TECHNICAL PHYSICS 49(6), 691-697 (2004)
140. ZHVANIA, IA; KIRTSKHALIA, VG; RUKHADZE, AA.  
EFFECT OF COMPRESSIBILITY ON THE STABILITY OF A PERFECTLY CONDUCTING PLASMA JET OF  
PLANE AND CYLINDRICAL GEOMETRY  
TECHNICAL PHYSICS 49(11), 1525-1528 (2004)
141. RUKHADZE, A.A.; URUTSKOEV, L.I.; FILIPPOV, D.V..  
A POSSIBLE MAGNETIC MECHANISM OF SHORTENING THE RUNAWAY OF RBMK-1000 REACTOR  
AT CHERNOBYL NUCLEAR POWER PLANT  
BULLETIN OF THE LEBEDEV PHYSICS INSTITUTE (1), 1 (2004)
142. MINAEV, IM; RUKHADZE, AA.  
LOCALIZATION OF A PULSE-PERIODIC SURFACE DISCHARGE BLOWN OVER BY VISCOUS GAS  
HIGH TEMPERATURE 41(6), 731-734 (2003)
143. BYCHKOV, V.; KUZ'MIN, G.; MINAEV, I.; RUKHADZE, A.; TIMOFEEV, I..  
SLIDING DISCHARGE APPLICATION IN AERODYNAMICS  
AIAA PAPER , 530 (2003)
144. KUZELEV, M. V.; ROMANOV, R. V.; RUKHADZE, A. A..  
ELECTROMAGNETIC WAVES IN PLASMA WAVEGUIDES PART III. EFFECTIVE BOUNDARY  
CONDITIONS AND THEORY OF SURFACE WAVES IN WAVEGUIDES WITH A THIN ANNULAR  
PLASMA  
PRIKL. FIZ. (3), 20 (2003)
145. BOGDANKEVICH, I.L.; RUKHADZE, A.A.; STRELKOV, P.S.; TARAKANOV, V.P..  
USING PIC-PLASMA MODEL IN THE NUMERICAL SIMULATION OF A RELATIVISTIC CHERENKOV

PLASMA MASER

PROBLEMS ATOMIC SCI. TECHNOL. SER. PLASMA PHYS. 1(9), 102 (2003)

146. BOGDANKEVICH, IL; IVANOV, IE; LOZA, OT; RUKHADZE, AA; STRELKOV, PS; TARAKANOV, VP; ULYANOV, DK.  
FINE STRUCTURE OF THE EMISSION SPECTRA OF A RELATIVISTIC CHERENKOV PLASMA MASER  
PLASMA PHYSICS REPORTS 28(8), 690-698 (2002)
147. KUZ'MIN, GP; MINAEV, IM; RUKHADZE, AA.  
A VISCOUS GAS FLOW PAST A PLASMA SHEET FORMED BY A SLIDING DISCHARGE  
HIGH TEMPERATURE 40(3), 477-479 (2002)
148. BOBYLEV, YV; KUZELEV, MV; RUKHADZE, AA.  
THE CAUCHY PROBLEM FOR THE VLASOV KINETIC EQUATION AND THE METHOD OF  
INTEGRATION OVER INITIAL DATA  
JOURNAL OF COMMUNICATIONS TECHNOLOGY AND ELECTRONICS 47(2), 149-168 (2002)
149. VOLKOVICH, A.G.; GOVORUN, A.P.; GULYAEV, A.A.; ZHUKOV, S.V.; KUZNETSOV, V.L.;  
RUKHADZE, A.A.; STEBLEVSKII, A.V.; URUTSKOEV, L.I..  
OBSERVATION OF THE EFFECTS OF DISTORTION OF THE URANIUM ISOTOPIC RATIO AND  
VIOLATIONS OF SECULAR EQUILIBRIUM FOR <sup>234</sup>TH UNDER ELECTRIC EXPLOSION  
BULL. LEBEDEV PHYS. INST (8), 45 (2002)
150. RUKHADZE, AA; SERGEICHEV, KF.  
DRIFT DIRECT CURRENT RESULTING FROM A MICROWAVE CONVERSION THE ECR DISCHARGE  
PLASMA IN A GAS OF LOW PRESSURE  
PHYSICS LETTERS A 288(5-6), 316-318 (2001)
151. ANDREEV, SN; RUKHADZE, AA; SAMOKHIN, AA.  
ON A 'METASTABLE' PLASMA  
QUANTUM ELECTRONICS 31(9), 845-846 (2001)
152. KUZELEV, MV; LOZA, OT; RUKHADZE, AA; STRELKOV, PS; SHKVARUNETS, AG.  
PLASMA RELATIVISTIC MICROWAVE ELECTRONICS  
PLASMA PHYSICS REPORTS 27(8), 669-691 (2001)
153. ALEKSANDROV, AF; KUZELEV, MV; RUKHADZE, AA.  
PIERCE INSTABILITY OF A NONISOTHERMAL PLASMA STREAM: A THEORETICAL STUDY  
JOURNAL OF COMMUNICATIONS TECHNOLOGY AND ELECTRONICS 46(8), 936-938 (2001)
154. KUZELEV, MV; ROMANOV, RV; RUKHADZE, AA.  
EFFECT OF THE RADIAL PLASMA PROFILE ON THE SURFACE WAVE STRUCTURE IN A PLASMA  
WAVEGUIDE  
PLASMA PHYSICS REPORTS 27(3), 243-250 (2001)
155. KUZELEV, MV; RUKHADZE, AA.  
MICROWAVE AND OPTICAL GAS DISCHARGES IN SUPERSTRONG PULSED FIELDS  
PLASMA PHYSICS REPORTS 27(2), 158-163 (2001)
156. KLOCHKOV, DN; RUKHADZE, AA.  
ON THE TYPES OF INSTABILITY OF SPATIALLY RESTRICTED SYSTEMS  
JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS 93(6), 1209-1215 (2001)
157. KLOCHKOV, DN; PEKAR, MY; RUKHADZE, AA.  
NONRESONANT RADIATIVE PIERCE INSTABILITY AND ITS SATURATION - CHAOS  
PHYSICS OF PLASMAS 7(11), 4707-4719 (2000)



158. BOBYLEV, YV; KUZELEV, MV; RUKHADZE, AA.  
NONLINEAR THEORY OF RESONANT BEAM-PLASMA INTERACTION: NONRELATIVISTIC CASE  
JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS 91(1), 93-105 (2000)
159. KUDREVATOVA, OV; RHEE, MH; RUKHADZE, AA.  
ON AN INSTABILITY OF PLASMA PLACED IN A TIMELY CONSTANT ELECTRIC FIELD WITH RESPECT  
TO LOW-FREQUENCY PERTURBATIONS  
IZVESTIYA AKADEMII NAUK SERIYA FIZICHESKAYA 64(7), 1253-1258 (2000)
160. BENOVA, E; IVANOV, ST; RUKHADZE, AA.  
SURFACE WAVES IN A PLASMA FLOW  
JOURNAL OF PLASMA PHYSICS 63, 489-493 (2000)
161. SAGDEEV, RZ; GALEEV, AA; ZAKHAROV, VE; ORAEVSKII, VN; BALEBANOV, VM; DYKHNE, AM;  
SILIN, VP; MIKHAILOVSKII, AB; RUKHADZE, AA; KOVRAZHNIKIN, RA; KUZNETSOV, EA; ZELENYI, LM;  
POKHOTELOV, OA; GAL'PERIN, YI; GOKHBERG, MB; EROKHIN, NS.  
SEMEN SAMOILOVICH MOISEEV (IN HONOR OF HIS 70TH BIRTHDAY)  
PLASMA PHYSICS REPORTS 26(4), 372-373 (2000)
162. KURILENKOV, YK; SKOWRONEK, M; LOUVET, G; RUKHADZE, AA; DUFTY, J.  
SUPRATHERMAL HARD X-RAYS AND ENERGETIC PARTICLES FROM PLASMAS "DUST"  
JOURNAL DE PHYSIQUE IV 10(P5), 409-415 (2000)
163. KUZELEV, MV; RUKHADZE, AA.  
PRESENT STATUS OF THE THEORY OF RELATIVISTIC PLASMA MICROWAVE ELECTRONICS  
PLASMA PHYSICS REPORTS 26(3), 231-254 (2000)
164. ALEKSANDROV, AF; RUKHADZE, AA.  
KINETIC THEORY OF SURFACE WAVES IN A SEMIBOUNDED PLASMA FLOW  
TECHNICAL PHYSICS 45(4), 396-399 (2000)
165. IGNATOV, SM; FUROV, LV; KUNIN, VN; PLESHIVTSEV, VS; RUKHADZE, AA.  
ARTIFICIAL FIREBALL AS DUST-PLASMA CLOUD  
FRONTIERS IN DUSTY PLASMAS , 477-480 (2000)
166. ALEXANDROV, AF; ARDELYAN, NV; CHUVASHEV, SN; ERSHOV, AP; RUKHADZE, AA; TIMOFEEV,  
IB; TIMOFEEV, BI; SHIBKOV, VM.  
SUPERSONIC PLASMA FLOWS AND THEIR INFLUENCE ON AERODYNAMICS OF FLIGHT  
J. TECH. PHYS. 41, 533 (2000)
167. SHOKRI, B; RUKHADZE, AA.  
QUANTUM DRIFT WAVES  
PHYSICS OF PLASMAS 6(12), 4467-4471 (1999)
168. ALEKSANDROV, AF; RUKHADZE, AA; SAVINOV, VP; SINGAEVSKII, IF.  
ELECTRONIC ENERGY SPECTRUM OF THE SHEATH OF AN ASYMMETRIC LOW-PRESSURE  
CAPACITIVE RF DISCHARGE  
TECHNICAL PHYSICS LETTERS 25(10), 772-774 (1999)
169. SHOKRI, B; RUKHADZE, AA.  
QUANTUM SURFACE WAVE ON A THIN PLASMA LAYER  
PHYSICS OF PLASMAS 6(9), 3450-3454 (1999)
170. VELIKHOV, EP; GALEEV, AA; EROKHIN, NS; ZMIEVSKAYA, GI; KARAS', VI; KLIMONTOVICH, YL;  
KOSTOMAROV, DP; SAMARSKII, AA; ROZANOV, VB; RUKHADZE, AA; FAINBERG, YB.  
IN MEMORY OF YURII SERGEEVICH SIGOV  
USPEKHI FIZICHESKIKH NAUK 169(8), 927-928 (1999)

171. BOBYLEV, YV; KUZELEV, MV; RUKHADZE, AA; SVESHNIKOV, AG.  
NONSTEADY PARTIAL BOUNDARY CONDITIONS ON RADIATION IN THE PROBLEMS OF RELATIVISTIC HIGH-CURRENT PLASMA MICROWAVE ELECTRONICS  
PLASMA PHYSICS REPORTS 25(7), 561-566 (1999)
172. KLOCHKOV, DN; PEKAR, MY; RUKHADZE, AA.  
THEORY OF STIMULATED NONRESONANT EMISSION FROM RELATIVISTIC BEAMS  
JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS 88(6), 1115-1121 (1999)
173. KLOCHKOV, DN; PEKAR, MY; RUKHADZE, AA.  
NONRESONANT MICROWAVE GENERATORS BASED ON THE RADIATIVE PIERCE INSTABILITY OF A RELATIVISTIC ELECTRON BEAM  
PLASMA PHYSICS REPORTS 25(6), 501-506 (1999)
174. KUZELEV, MV; RUKHADZE, AA.  
ON THE QUANTUM MECHANICAL DESCRIPTION OF THE LINEAR KINETICS OF A COLLISIONLESS PLASMA  
USPEKHI FIZICHESKIKH NAUK 169(6), 687-689 (1999)
175. KARIMOV, AR; POPONIN, VP; RUKHADZE, AA; SHCHEGLOV, VA.  
STIMULATED SCATTERING OF ELECTROMAGNETIC WAVES BY A RELATIVISTIC ELECTRON BEAM IN A THREE-DIMENSIONAL GEOMETRY  
QUANTUM ELECTRONICS 29(5), 400-405 (1999)
176. KUZELEV, MV; RUKHADZE, AA.  
EFFECT OF LOW-DENSITY BACKGROUND PLASMA ON THE EMISSION SPECTRA OF PLASMA MICROWAVE GENERATORS BASED ON HIGH-CURRENT RELATIVISTIC ELECTRON BEAMS  
PLASMA PHYSICS REPORTS 25(5), 426-430 (1999)
177. KRYNETSKII, AB; RUKHADZE, AA; FADEEVA, SS.  
REDUCTION OF AU<sup>3+</sup> IONS IN ABSORPTION OF RESONANCE LASER RADIATION  
ZHURNAL FIZICHESKOI KHIMII 73(4), 666-669 (1999)
178. KLOCHKOV, DN; PEKAR, MY; RUKHADZE, AA.  
ON THE THEORY OF RELATIVISTIC MONOTRON  
JOURNAL OF COMMUNICATIONS TECHNOLOGY AND ELECTRONICS 44(3), 355-359 (1999)
179. KUZELEV, MV; MKHEIDZE, GP; RUKHADZE, AA; STRELKOV, PS; SHKVARUNETS, AG.  
ELECTRON BEAM GENERATED PLASMAS: THEORY, EXPERIMENTS, APPLICATIONS  
ADVANCED TECHNOLOGIES BASED ON WAVE AND BEAM GENERATED PLASMAS 67, 391-428 (1999)
180. KLOCHKOV, DN; PEKAR, MY; RUKHADZE, AA.  
EFFECT OF THE THERMAL SPREAD OF THE BEAM ON THE RADIATIVE PIERCE INSTABILITY  
PLASMA PHYSICS REPORTS 25(1), 54-57 (1999)
181. GUREVICH, I; RUKHADZE, A.  
ON THE CONDITION OF LTE EXISTENCE IN THE WEAKLY IONIZED NOBLE GAS  
INTERNATIONAL CONFERENCE ON PHENOMENA IN IONIZED GASES, VOL IV, PROCEEDINGS , 61-61 (1999)
182. KLOCHKOV, DN; PEKAR, MY; RUKHADZE, AA.  
THE NONRESONANCE STIMULATED RADIATIVE INSTABILITY OF RECTILINEAR RELATIVISTIC ELECTRON BEAM  
INTERNATIONAL CONFERENCE ON PHENOMENA IN IONIZED GASES, VOL IV, PROCEEDINGS , 99-99 (1999)

183. IGNATOV, AM; FUROV, LV; KUNIN, VN; PLESHIVTSEV, VS; RUKHADZE, AA.  
ARTIFICIAL FIREBALL AS DUST-PLASMA CLOUD  
INTERNATIONAL CONFERENCE ON PHENOMENA IN IONIZED GASES, VOL IV, PROCEEDINGS , 5-6  
(1999)
184. KUZELEV, M.V.; RUKHADZE, A.A..  
ON THE QUANTUM DESCRIPTION OF THE LINEAR KINETICS OF A COLLISIONLESS PLASMA  
PHYSICS-USPEKHI 42(6), 603 (1999)
185. KUDREVATOVA, OB; RHEE, MH; RUKHADZE, AA.  
ON A NEW TYPE INSTABILITY OF DISCHARGE PLASMA PLACED IN A CONSTANT EXTERNAL  
ELECTRIC FIELD WITH RESPECT TO LOW FREQUENCY PERTURBATION.  
INTERNATIONAL CONFERENCE ON PHENOMENA IN IONIZED GASES, VOL IV, PROCEEDINGS , 93-  
94 (1999)
186. KUZELEV, MV; RUKHADZE, AA.  
OPTIMUM EFFICIENCY AND EMISSION SPECTRA OF MICROWAVE CHERENKOV PLASMA  
AMPLIFIERS USING HIGH-CURRENT RELATIVISTIC ELECTRON BEAMS  
PLASMA PHYSICS REPORTS 24(6), 486-489 (1998)
187. ABU-ASSALI, E; RUKHADZE, AA; SHOKRI, B.  
THEORY OF FLUTE AND CURRENT-CONVECTIVE INSTABILITY IN A THIN MAGNETICALLY  
CONFINED PLASMA LAYER  
PHYSICA SCRIPTA 57(3), 327-329 (1998)
188. RUKHADZE, AA; SHOKRI, B.  
LOW-FREQUENCY SURFACE WAVES IN THIN FILMS OF PLASMA-LIKE MEDIA  
PHYSICA SCRIPTA 57(1), 127-131 (1998)
189. RUKHADZE, AA; SHOKRI, B.  
SURFACE WAVES IN THIN LAYERS OF CONDUCTING MEDIA IN THE FREQUENCY RANGE FOR THE  
SKIN EFFECT  
TECHNICAL PHYSICS 42(12), 1446-1448 (1997)
190. DEVYATKOV, ND; NAUMENKO, ED; SMIRNOV, EM; RUKHADZE, AA; SRETENSKII, VN.  
CHARACTERISTICS OF THE MECHANISM OF COHERENT OPTICAL EMISSION IN RELATIVISTIC  
UNDULATOR DEVICES  
TECHNICAL PHYSICS 42(11), 1360-1361 (1997)
191. BIRAU, M; KRASILNIKOV, MA; KUZELEV, MV; RUKHADZE, AA.  
PROBLEMS IN THE RELATIVISTIC THEORY OF MICROWAVE PLASMA ELECTRONICS  
USPEKHI FIZICHESKIKH NAUK 167(10), 1025-1042 (1997)
192. KRASILNIKOV, MA; KUZELEV, MV; RUKHADZE, AA.  
CASCADE PROCESSES IN A PLASMA OSCILLATOR  
JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS 85(4), 705-711 (1997)
193. SHAMRAI, KP; ALEKSANDROV, AF; BOUGROV, GE; VIRKO, VF; KATIUKHA, VP; KOH, SK;  
KRALKINA, EA; KIRICHENKO, GS; RUKHADZE, AA.  
QUASISTATIC PLASMA SOURCES: PHYSICAL PRINCIPLES, MODELLING EXPERIMENTS,  
APPLICATION ASPECTS  
JOURNAL DE PHYSIQUE IV 7(C4), 365-381 (1997)
194. RUKHADZE, AA; SHOKRI, B.  
OSCILLATIONS OF A THIN MAGNETICALLY CONFINED PLASMA LAYER  
PHYSICS LETTERS A 232(1-2), 115-118 (1997)

195. KLOCHKOV, DN; RUKHADZE, AA.  
ELECTROMAGNETIC THEORY OF THE RADIATIVE PIERCE INSTABILITY  
PLASMA PHYSICS REPORTS 23(7), 598-601 (1997)
196. ALEKSANDROV, AF; RUKHADZE, AA.  
ON THE HISTORY OF FUNDAMENTAL PAPERS ON THE KINETIC PLASMA THEORY  
PLASMA PHYSICS REPORTS 23(5), 442-447 (1997)
197. ALEKSANDROV, AF; RUKHADZE, AA; CHOGOVDZE, ME.  
THEORY OF TRANSVERSE PLASMA STRUCTURES IN AN EXTERNAL ELECTRIC FIELD  
PLASMA PHYSICS REPORTS 23(5), 429-432 (1997)
198. BIRAU, M; KRASILNIKOV, MA; KUZELEV, MV; RUKHADZE, AA.  
NONLINEAR THEORY OF A PLASMA MICROWAVE OSCILLATOR USING CABLE WAVES  
JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS 84(4), 694-702 (1997)
199. BIRAU, M.; KRASIL'NIKOV, M.A.; KUZELEV, M.V.; RUKHADZE, A.A..  
PROBLEMS IN THE THEORY OF RELATIVISTIC PLASMA MICROWAVE ELECTRONICS  
PHYSICS-USPEKHI 40(10), 975 (1997)
200. OKE, G; RUKHADZE, A; YILMAZ, A; BILIKMEN, S.  
THE ANOMALOUS RESONANCE ABSORPTION OF ELECTROMAGNETIC WAVES AS A  
PHENOMENON OF RADIATIVE DAMPING  
NUOVO CIMENTO DELLA SOCIETA ITALIANA DI FISICA D-CONDENSED MATTER ATOMIC  
MOLECULAR AND CHEMICAL PHYSICS FLUIDS PLASMAS BIOPHYSICS 18(11), 1257-1262 (1996)
201. ALLAHYAROV, E; CHUTOV, Y; CLERCX, H; VANDONGEN, R; FELDERHOF, BU; GERASIMOV, O;  
VANHEIJST, GJ; KLIMONTOVICH, Y; KRAEFT, W; KREMP, D; MOISEEV, S; PODLOUBNY, L;  
RUKHADZE, A; SITENKO, A; TRIGGER, S; VANDEWATER, W; DEWITT, H; YAKIMENKO, I;  
ZAGORODNY, A.  
EULOGY  
PHYSICA B 228(1-2), R7-R7 (1996)
202. KUZELEV, MV; LOZA, OT; PONOMREV, AV; RUKHADZE, AA; STRELKOV, PS; ULYANOV, DK;  
SHKVARUNETS, AG.  
SPECTRAL CHARACTERISTICS OF RELATIVISTIC PLASMA UHF-GENERATOR  
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 109(6), 2048-2063 (1996)
203. YILMAZ, A; OKE, G; RUKHADZE, A; BILIKMEN, S.  
RADIATIVE DAMPING OF WHISTLERS IN A DENSE MAGNETOACTIVE PLASMA WAVEGUIDE  
PHYSICA SCRIPTA 53(6), 731-733 (1996)
204. RUKHADZE, AA; RYBAK, PV; KHODATAEV, YK; SHOKRI, V.  
LIMITING ELECTRON-BEAM CURRENTS IN COAXIAL SYSTEMS  
PLASMA PHYSICS REPORTS 22(4), 326-333 (1996)
205. KAZANSKII, L.N.; RUKHADZE, A.A.; RYBAK, P.V..  
GENERATION OF HIGH-POWER ULTRASHORT ELECTROMAGNETIC RADIATION WITH THE AID OF  
A SCANNING RELATIVISTIC ELECTRON BEAM  
TECHNICAL PHYSICS 41(3), 289 (1996)
206. KRASIL'NIKOV, M.A.; KUZELEV, M.V.; RUKHADZE, A.A..  
ON STEADY-STATE REGIMES OF A PLASMA MICROWAVE GENERATOR  
BULLETIN OF THE LEBEDEV PHYSICS INSTITUTE (7), 18 (1996)

207. RUKHADZE, A.A.; SHOKRI, B..  
DIFFUSION MODES OF SURFACE OSCILLATIONS IN THIN FILMS OF PLASMA-LIKE MEDIA  
JOURNAL OF THE MOSCOW PHYSICAL SOCIETY 6(3), 297 (1996)
208. RUKHADZE, AA; SARKSYAN, KA; SKVORTSOVA, NN.  
STIMULATED CHERENKOV RADIATION OF PLASMA WAVES AND PLASMA TURBULENCE  
JOURNAL DE PHYSIQUE IV 5(C6), 53-59 (1995)
209. KRASILNIKOV, MA; KUZELEV, MV; RUKHADZE, AA.  
NONLINEAR DYNAMICS OF CHERENKOV INDUCED RESONANCE SCATTERINGS IN SPACE-LIMITED  
PLASMA  
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 108(2), 521-530 (1995)
210. BANNYKH, OA; BARYAKHTAR, VG; VONSOVSKII, SV; GUSAK, AM; IVANOV, LI; KONDRATEV, VV;  
NAZAROV, AV; OKULOV, VI; PIMENOV, VV; RUKHADZE, AA; SILIN, VP; TALUTS, GG; UGASTE, YE.  
GUROV, KIRILL, PETROVICH (OBITUARY)  
USPEKHI FIZICHESKIKH NAUK 165(5), 599-600 (1995)
211. KOSSYI, IA; LEBEDEV, YA; RUKHADZE, AA.  
MICROWAVE PLASMAS AND THEIR APPLICATIONS - INTERNATIONAL WORKSHOP  
(ZVENIGOROD 1994)  
PLASMA PHYSICS REPORTS 21(4), 346-347 (1995)
212. DEVYATKOV, ND; NAUMENKO, ED; RUKHADZE, AA; SMIRNOV, EN; SRETENSKII, VN.  
FORMING ELECTRON CURRENT DISCRETE STRUCTURE OF THE AMPLIFIER KLYSTRON USING  
WORKING SUBHARMONIC FREQUENCY  
DOKLADY AKADEMII NAUK 340(6), 763-767 (1995)
213. IGNATOV, AM; KOROTCHENKO, VP; MAKAROV, VP; RUKHADZE, AA; SAMOKHIN, AA.  
ON THE INTERPRETATION OF A COMPUTER EXPERIMENT ON CLASSICAL COULOMB PLASMA  
USPEKHI FIZICHESKIKH NAUK 165(1), 113-117 (1995)
214. RUKHADZE, A; YILMAZ, A; OKE, G; BILIKMEN, S.  
ABOUT THE MECHANISM OF WHISTLERS ABSORPTION IN THE REAL F-LAYER OF THE EARTH'S  
IONOSPHERE  
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS 9(11-12), 1433-1439 (1995)
215. VOROBEV, NF; RUKHADZE, AA.  
EXCITATION OF A HELICON IN A PLASMA CYLINDER BY SURFACE CURRENT SOURCES  
PLASMA PHYSICS REPORTS 20(12), 955-958 (1994)
216. ALEKSANDROV, AF; VOROBEV, NF; KRALKINA, EA; OBUKHOV, VA; RUKHADZE, AA.  
THEORY OF QUASI-STATIC PLASMA SOURCES  
ZHURNAL TEKHNICHESKOI FIZIKI 64(11), 53-58 (1994)
217. SHKVARUNETS, AG; RUKHADZE, AA; STRELKOV, PS.  
WIDE-BAND RELATIVISTIC PLASMA MICROWAVE-OSCILLATOR  
PLASMA PHYSICS REPORTS 20(7), 613-616 (1994)
218. RUKHADZE, AA; RYBAK, PV; TARAKANOV, VP.  
ON PULSED REB ULTIMATE CURRENT IN PLASMA WAVE-GUIDE  
PLASMA PHYSICS REPORTS 20(4), 369-373 (1994)
219. NAUMENKO, ED; PROKHOROV, AM; RAINER, MM; RUKHADZE, AA; SITNOV, MI; SMIRNOV, EN;  
SRETENSKII, VN.  
FORMING OF HIGH-POWER ELECTRON FLOWS WITH CONTROL OF SPIRAL TRAJECTORY

ULTRARELATIVISTIC ELECTRON MOVEMENTS

ZHURNAL TEKHNICHESKOI FIZIKI 64(4), 103-114 (1994)

220. KAZANSKII, LN; RUKHADZE, AA.

POTENTIAL GENERATION OF HIGH-POWER ULTRA-SHORT ELECTROMAGNETIC PULSE USING SCANNING REB

PISMA V ZHURNAL TEKHNICHESKOI FIZIKI 20(3), 26-28 (1994)

221. ALEKSANDROV, A.F.; VOROB'EV, N.F.; KRAL'KINA, E.A.; OBUKHOV, V.A.; RUKHADZE, A.A..

THEORY OF QUASISTATIC PLASMA SOURCES

TECHNICAL PHYSICS 39(11), 1118 (1994)

222. ARUTYUNYAN, GM; GOLDANSKII, VI; KUZNETSOV, NM; RUKHADZE, AA; SINKEVICH, OA; SOLOMINA, NL; STEPANOVA, LG.

DYAKOV, SERGEI, PETROVICH AND HIS CONTRIBUTION TO SCIENCE

USPEKHI FIZICHESKIKH NAUK 163(9), 109-116 (1993)

223. KUZELEV, M.V.; RUKHADZE, A.A..

CHARACTERISTIC METHOD FOR VLASOV EQUATION UNDER INITIAL AND BOUNDARY CONDITIONS OF ELECTRODYNAMICS

RADIOPHYSICS AND QUANTUM ELECTRONICS 36(10), 661 (1993)

224. GLAZOV, L.G.; RUKHADZE, A.A..

LOW-PRESSURE GAS BREAKDOWN IN AN ELLIPTICALLY OR CIRCULARLY POLARIZED ULTRA-STRONG MICROWAVE FIELD

PLASMA PHYSICS REPORTS 19(10), 679 (1993)

225. GLAZOV, LG; RUKHADZE, AA.

EFFECT OF THE FAST GROWTH OF PLASMA-CONCENTRATION ON DYNAMICS OF ELECTROMAGNETIC-WAVE DISPERSION THROUGH PLASMA

ZHURNAL TEKHNICHESKOI FIZIKI 62(3), 63-71 (1992)

226. RUKHADZE, AA; STOLBETSOV, SD; TARAKANOV, VP.

VIRCATORS (AN OVERVIEW)

RADIOTEKHNIKA I ELEKTRONIKA 37(3), 385-396 (1992)

227. RUKHADZE, AA; CHOGOVDADZE, ME.

ON COUPLED ACOUSTOELECTROMAGNETIC SURFACE-WAVES

FIZIKA TVERDOGO TELA 34(3), 889-893 (1992)

228. KUZELEV, MV; PANIN, VA; PLOTNIKOV, AP; RUKHADZE, AA.

THE THEORY OF TRANSVERSE-UNHOMOGENEOUS BEAM-PLASMA AMPLIFIERS

ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 101(2), 460-478 (1992)

229. IGNATOV, AM; RUKHADZE, AA.

PLASMAS IN NATURE, LABORATORY AND TECHNOLOGY

PLASMA TECHNOLOGY: FUNDAMENTALS AND APPLICATIONS , 1-9 (1992)

230. RUKHADZE, A.A.; CHOGOVDADZE, M.E..

PROBLEM OF COUPLED ELASTOELECTROMAGNETIC SURFACE WAVES

SOVIET PHYSICS - SOLID STATE 34(3), 476 (1992)

231. RUKHADZE, A.A.; SEVER'YANOV, V.V..

PHYSICAL NATURE OF MONOTRON INSTABILITY

SOVIET PHYSICS - TECHNICAL PHYSICS 37(12), 1179 (1992)

232. RUKHADZE, AA; SOBOLEV, NN; SOKOVIKOV, VV.  
SIMILARITY RELATIONS FOR LOW-TEMPERATURE NON-ISOTHERMICAL DISCHARGES  
USPEKHI FIZICHESKIKH NAUK 161(9), 195-199 (1991)
233. ALTERKOP, BA; RUKHADZE, AA; SOKULIN, AY; TARAKANOV, VP.  
OSCILLATIONS OF VIRTUAL CATHODE AS THE SOURCE OF UHF EMISSION  
ZHURNAL TEKHNIЧЕСKOI FIZIKI 61(9), 115-123 (1991)
234. BATENIN, VM; BUNKIN, FV; KARLOV, NV; KIRILLIN, VA; PITAYEVSKII, LP; PROKHOROV, AM;  
RUKHADZE, AA; SAVVATIMSKII, AV; FORTOV, VS; SHEINDLIN, AE.  
LEBEDEV, SERGEY, VLADIMIROVICH - OBITUARY  
USPEKHI FIZICHESKIKH NAUK 161(3), 181-183 (1991)
235. KOTETISHVILI, PV; RUKHADZE, AA; TARAKANOV, VP.  
FIELD OF TRAVELING CURRENT IN CLASSIC CONDUCTING MEDIA  
PISMA V ZHURNAL TEKHNIЧЕСKOI FIZIKI 17(1), 24-27 (1991)
236. ALTERKOP, BA; MIKHAILOV, VM; RUKHADZE, AA; SOKULIN, AY; TARAKANOV, VP.  
SOME PROPERTIES OF DYNAMICS OF ELECTRON-BEAMS WITH THE OVER LIMITING CURRENT  
PROCEEDINGS OF THE EIGHTH INTERNATIONAL CONFERENCE ON HIGH-POWER PARTICLE  
BEAMS ( BEAMS 90 ), VOLS 1 AND 2 , 1167-1172 (1991)
237. KUZELEV, MV; PANIN, VA; PLOTNIKOV, AP; RUKHADZE, AA.  
RESONANCE 4-WAVE DIFFUSION IN THE RELATIVISTIC BEAM-PLASMA  
VESTNIK MOSKOVSKOGO UNIVERSITETA SERIYA 3 FIZIKA ASTRONOMIYA 32(1), 30-35 (1991)
238. RUKHADZE, A.A.; SOBOLEV, N.N.; SOKOVIKOV, V.V..  
SIMILARITY RELATIONS FOR LOW-TEMPERATURE NONISOTHERMAL DISCHARGES  
SOVIET PHYSICS - USPEKHI 34(9), 827 (1991)
239. KUZELEV, M.V.; PANIN, V.A.; PLOTNIKOV, A.P.; RUKHADZE, A.A..  
MULTIWAVE THEORY OF SCATTERING BY NONRELATIVISTIC MAGNETISED ELECTRON BEAMS  
SOVIET JOURNAL OF PLASMA PHYSICS 17(8), 565 (1991)
240. RUKHADZE, AA; CHOGOVDZE, ME.  
TO THE THEORY OF SURFACE-WAVES IN PLASMA-LIKE MEDIA  
FIZIKA TVERDOGO TELA 32(5), 1488-1493 (1990)
241. GLAZOV, LG; RUKHADZE, AA.  
TRAVEL OF ELECTROMAGNETIC-WAVES THROUGH PLASMA WITH RAPIDLY-GROWING  
CONCENTRATION  
ZHURNAL TEKHNIЧЕСKOI FIZIKI 60(4), 47-51 (1990)
242. ATOYAN, AM; RUKHADZE, AA.  
MECHANISM OF HOMOGENEOUS PLASMA COLLISION INSTABILITY WITH CURRENT  
ZHURNAL TEKHNIЧЕСKOI FIZIKI 59(12), 134-137 (1989)
243. KUZELEV, MV; PANIN, VA; PLOTNIKOV, AP; RUKHADZE, AA.  
NONLINEAR-THEORY OF RELATIVISTIC EMITTERS ON FREE-ELECTRON BEAMS  
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 96(3), 865-877 (1989)
244. KIKVIDZE, RR; KIRSANOV, NA; MINAEV, IM; RUKHADZE, AA.  
MODIFICATION OF AMORPHOUS DIELECTRIC OPTICAL CHARACTERISTICS UNDER PULSE  
IRRADIATION BY ELECTRON-BEAMS  
ZHURNAL TEKHNIЧЕСKOI FIZIKI 59(6), 176-178 (1989)
245. KUZELYEV, MV; ROMANOV, RV; RUKHADZE, AA.  
ANOMALOUS DOPPLER RESONANCE OF ELECTRONS WITH A ONE-DIMENSIONAL

MONOCHROMATIC ELECTROMAGNETIC-WAVE

ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 95(5), 1625-1638 (1989)

246. GLAZOV, L.G.; RUKHADZE, A.A..  
ELECTRON DISTRIBUTION FUNCTION AND IONIZATION FREQUENCY DURING MICROWAVE  
BREAKDOWN OF LOW AND MEDIUM PRESSURE GASES IN VERY HIGH FIELDS: RELATIVISTIC  
CASE  
SOVIET JOURNAL OF PLASMA PHYSICS 15(12), 867 (1989)
247. KUZELEV, M.V.; RUKHADZE, A.A..  
WAVE AMPLIFICATION AND DAMPING ASSOCIATED WITH NORMAL AND ANOMALOUS  
DOPPLER EFFECTS  
SOVIET JOURNAL OF PLASMA PHYSICS 15(9), 651 (1989)
248. KUZELEV, M.V.; ROMANOV, R.V.; RUKHADZE, A.A..  
ANOMALOUS DOPPLER RESONANCE OF ELECTRONS WITH A ONE-DIMENSIONAL  
MONOCHROMATIC ELECTROMAGNETIC WAVE  
SOVIET PHYSICS - JETP 68(5), 939 (1989)
249. KUZELEV, M. V.; POEZD, A. D.; RUKHADZE, A. A.; SVESHNIKOV, A. G.; YAKUNIN, S. A..  
APPLICATION OF CONSERVATIVE FINITE-DIFFERENCE SCHEMES FOR MODELING NON-  
STATIONARY PROCESSES IN VIRCATORS  
MATEMATICHESKOE MODELIROVANIE 1, 16 (1989)
250. KUZELEV, MV; MAIKOV, AR; POEZD, AD; RUKHADZE, AA; SVESHNIKOV, AG; IAKUNIN, SA..  
LARGE-PARTICLE SIMULATION METHOD IN THE ELECTRODYNAMICS OF BEAM-PLASMA  
DOKLADY AKADEMII NAUK SSSR 300(5), 1112-1115 (1988)
251. KUZELEV, MV; RUKHADZE, AA..  
A STIMULATED RADIATION OF HIGH-CURRENT RELATIVISTIC ELECTRON-BEAMS  
USPEKHI FIZICHESKIKH NAUK 152(2), 285-316 (1987)
252. DEMIDOVA, N.S.; RUKHADZE, A.A..  
EXPANSION OF THE CATHODE PLASMA IN A MAGNETICALLY INSULATED DIODE  
SOVIET JOURNAL OF PLASMA PHYSICS 13(6), 428 (1987)
253. KIKVIDZE, R.R.; RUKHADZE, A.A..  
IONIZATION-FIELD INSTABILITY OF AN RF DISCHARGE IN A WEAKLY IONIZED PLASMA  
SOVIET JOURNAL OF PLASMA PHYSICS 13(2), 140 (1987)
254. KUZELEV, M.V.; RUKHADZE, A.A.; STRELKOV, P.S.; SHKVARUNETS, A.G..  
RELATIVISTIC HIGH-CURRENT PLASMA MICROWAVE ELECTRONICS: ADVANTAGES, PROGRESS,  
AND OUTLOOK  
SOVIET JOURNAL OF PLASMA PHYSICS 13(11), 793 (1987)
255. KIKVIDZE, RR; RUKHADZE, AA..  
OVERHEATING-IONIZATION MECHANISMS OF THE NEGATIVE DIFFERENTIAL CONDUCTIVITY  
AND PLASMA STABILITY IN EXTERNAL MAGNETIC-FIELDS  
FIZIKA TVERDOGO TELA 28(12), 3756-3759 (1986)
256. KUZELEV, MV; RUKHADZE, AA; BOBYLYEV, YV; PANIN, VA..  
TECHNIQUE OF EXPANSION WITH RESPECT TO TRAJECTORIES IN NONLINEAR  
ELECTRODYNAMICS OF A NONEQUILIBRIUM PLASMA  
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 91(5), 1620-1632 (1986)
257. BOGDANOV, AT; KUZELEV, MV; RUKHADZE, AA..  
NONLINEAR DYNAMICS OF HELICAL WAVE EXCITATION BY AN ELECTRON-BEAM IN A



MAGNETIC-FIELD UNDER WEAK TURBULENCE CONDITIONS

IZVESTIYA VYSSHIKH UCHEBNYKH ZAVEDENII RADIOFIZIKA 29(12), 1431-1437 (1986)

258. BOGDANOV, A.T.; KUZELEV, M.V.; RUKHADZE, A.A..  
EXPLOSIVE GENERATION OF THE SECOND HARMONIC OF BEAM SPACECHARGE OSCILLATIONS  
IN A TRANSVERSE SLOW ELECTROMAGNETIC WAVE  
SOVIET JOURNAL OF PLASMA PHYSICS 12(1), 31 (1986)
259. BOGDANOV, A.T.; KUZELEV, M.V.; RUKHADZE, A.A..  
TOWARD A NONLINEAR THEORY OF THE ANOMALOUS DOPPLER EFFECT IN A RECTILINEAR  
MAGNETIZED ELECTRON BEAM  
SOVIET PHYSICS - LEBEDEV INSTITUTE REPORTS (6), 12 (1986)
260. BOGDANKEVICH, LS; RUKHADZE, AA.  
LFE THEORY ON HEAVY-CURRENT RELATIVISTIC ELECTRON-BEAMS  
ZHURNAL TEKHNICHESKOI FIZIKI 55(5), 913-916 (1985)
261. DEMIDOVA, NS; RUKHADZE, AA; FADEEV, VM; EBANOIDZE, ZN.  
HYDRODYNAMICS OF WEAKLY-IONIZED NON-ISOTHERMAL PLASMA  
ZHURNAL TEKHNICHESKOI FIZIKI 55(1), 210-212 (1985)
262. KUZELEV, MV; RUKHADZE, AA; STRELKOV, PS; SHKVARUNETS, AG.  
RELATIVISTIC PLASMA UHF ELECTRONICS .1. INTRODUCTION  
USPEKHI FIZICHESKIKH NAUK 146(4), 709-713 (1985)
263. KUZELEV, MV; RUKHADZE, AA; SANADZE, GV.  
RELATIVISTIC CHARGE-DENSITY WAVES IN HIGH-CURRENT NEUTRALIZED MAGNETIZED  
ELECTRON-BEAMS  
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 89(5), 1591-1602 (1985)
264. KUZELEV, N.V.; RUKHADZE, A.A.; SANADZE, G.V..  
RELATIVISTIC SPACE CHARGE WAVES IN INTENSE NEUTRALIZED MAGNETIZED ELECTRON  
BEAMS  
SOVIET PHYSICS - JETP 62(5), 921 (1985)
265. KUZELEV, M.V.; RUKHADZE, A.A.; SANADZE, G.V.; FILIPPYCHEV, D.S..  
SPATIAL AND TEMPORAL MODULATION OF AN ULTRARELATIVISTIC INTENSE ELECTRON BEAM  
IN A MAGNETIZED PLASMA-FILLED WAVEGUIDE  
SOVIET JOURNAL OF PLASMA PHYSICS 11(7), 465 (1985)
266. KARBUSHEV, NI; RUKHADZE, AA; SHATKUS, AD.  
LINEAR-THEORY OF LASERS ON FREE-ELECTRONS IN CYLINDRICAL VOLUMES OF INTERACTION  
ZHURNAL TEKHNICHESKOI FIZIKI 54(3), 534-540 (1984)
267. MIKHAILOV, AV; GUSYEVA, GI; ZAVYALOV, MA; ROSHAL, AS; RUKHADZE, AA.  
ONE-DIMENSIONAL GAS-DYNAMIC SIMULATION OF ELECTRON-BEAM TRANSPORT IN A  
RAREFIED-GAS  
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 87(3), 840-848 (1984)
268. ALEXANDROV, AF; GALUZO, SI; ZHURAVLEV, VA; KARPOV, OV; KUZNETSOV, VJ; KUBAREV, VA;  
MIKHEEV, VV; MUZALEVSKII, VE; PETROV, GD; PLETIUSHKIN, VA; RUKHADZE, AA.  
MEASUREMENT OF PARAMETERS OF THE STRONG-CURRENT ELECTRON-BEAM BY THE  
METHOD OF LIGHT-SCATTERING  
DOKLADY AKADEMII NAUK SSSR 274(1), 66-67 (1984)

269. BOGDANOV, V.V.; KUZELEV, M.V.; RUKHADZE, A.A..  
NEGATIVE-MASS INSTABILITIES AND RF ELECTRONICS  
SOVIET JOURNAL OF PLASMA PHYSICS 10(3), 319 (1984)
270. IGNATOV, A.M.; RUKHADZE, A.A..  
PIERCE INSTABILITY OF NEUTRALIZED ELECTRON BEAMS  
SOVIET JOURNAL OF PLASMA PHYSICS 10(1), 64 (1984)
271. IPATOV, A.L.; KABANOV, S.N.; KOROLEV, A.A.; KUZ'MIN, A.I.; KUL'BEDA, V.E.; MKHEIDZE, G.P.;  
NOSACH, V.YU.; RUKHADZE, A.A.; SAVIN, A.A..  
DENSITY CHANGE IN A NEUTRAL GAS UPON THE PASSAGE OF A RELATIVISTIC-ELECTRON-BEAM  
PULSE  
SOVIET TECHNICAL PHYSICS LETTERS 10(2), 66 (1984)
272. KIKVIDZE, R.R.; MINAEV, I.M.; RUKHADZE, A.A.; SHKVARUNETS, A.G..  
TRANSPORT OF A RELATIVISTIC ELECTRON BEAM OF MODERATE CURRENT DENSITY IN A DENSE  
GAS  
SOVIET JOURNAL OF PLASMA PHYSICS 10(5), 559 (1984)
273. ARUTYUNYAN, SG; BOGDANKEVICH, OV; BONDAR, IF; ZAVAROTNI, SI; IPATOV, AZ; MCHEIDZE,  
GP; OVCHINNIKOV, AA; RUKHADZE, AA.  
RELATIVISTIC ELECTRON-BEAM INJECTION INTO NEUTRAL GASES  
PLASMA PHYSICS AND CONTROLLED FUSION 25(1), 11-24 (1983)
274. KALANDIYA, ZV; KARBUSHEV, NI; RUKHADZE, AA; UDOVICHENKO, SY.  
CONDITIONS OF RELATIVISTIC ELECTRON-BEAM DIODOTRON INSTABILITY-DEVELOPMENT IN  
THE CO-AXIAL WAVEGUIDE  
ZHURNAL TEKHNICHESKOI FIZIKI 53(10), 1889-1892 (1983)
275. KUZELEV, MV; RUKHADZE, AA; SANADZE, GV; FILIPPICHEV, DS.  
NON-LINEAR THEORY OF ELECTROMAGNETIC-WAVE INDUCED SCATTERINGS ON THE ELECTRON  
MAGNETIZED CLUSTER IN A WAVE-GUIDE  
ZHURNAL TEKHNICHESKOI FIZIKI 53(2), 396-399 (1983)
276. RUKHADZE, AA; SHAFER, VY.  
INSTABILITY OF QUASINEUTRAL ELECTRON-BEAM IN A SEMIINFINITE METALLIC WAVEGUIDE  
JETP LETTERS 38(2), 61-64 (1983)
277. ROZANOV, VB; RUKHADZE, AA.  
PLASMA SOURCES FOR LASER PUMPING  
KVANTOVAYA ELEKTRONIKA 10(1), 128-130 (1983)
278. BELOV, SN; KARBUSHEV, NI; RUKHADZE, AA.  
THE THEORY OF INDUCED SCATTERING OF ELECTROMAGNETIC-WAVES IN A WAVEGUIDE BY A  
RELATIVISTIC ELECTRONIC BEAM  
IZVESTIYA VYSSHIKH UCHEBNYKH ZAVEDENII RADIOFIZIKA 26(1), 64-73 (1983)
279. BELOV, N.E.; KARBUSHEV, N.I.; RUKHADZE, A.A.; UDOVICHENKO, S.YU..  
RELATIVISTIC CARCINOTRON WITH A HIGH SPACE CHARGE  
SOVIET JOURNAL OF PLASMA PHYSICS 9(4), 454 (1983)
280. BONDAR', YU.F.; ZAVOROTNYI, S.I.; IPATOV, A.L.; KARBUSHEV, N.I.; KOVALEV, N.F.; LOSA, O.T.;  
MKHEIDZE, G.P.; OVCHINNIKOV, A.A.; RUKHADZE, A.A.; TSOPP, L.E..  
GENERATION OF HIGH FREQUENCY RADIATION IN A CARCINOTRON WITH A RELATIVISTIC  
BEAM  
FIZIKA PLAZMY 9(2), 383 (1983)

281. IGNAT'EV, A.V.; RUKHADZE, A.A..  
STABILITY OF AN ELECTRODELESS DISCHARGE IN AN ELECTROMAGNETIC WAVE  
SOVIET JOURNAL OF PLASMA PHYSICS 9(6), 760 (1983)
282. ARUTYUNYAN, SG; BOGDANKEVICH, OV; BONDAR, YF; ZAVOROTNYI, SI; IPATOV, AL; MKHEIDZE, GP; OVCHINNIKOV, AA; RUKHADZE, AA.  
TRANSPORT OF AN INTENSIVE ELECTRON-BEAM IN NEUTRAL GASES  
KVANTOVAYA ELEKTRONIKA 9(2), 234-247 (1982)
283. BELOV, NE; KARBUSHEV, NI; RUKHADZE, AA.  
THEORY OF PLASMA TRAVELING WAVE TUBE EXCITATION  
ZHURNAL TEKHNICHESKOI FIZIKI 52(8), 1674-1677 (1982) Ъ
284. BELOV, SN; KARBUSHEV, NI; RUKHADZE, AA.  
FORCED SCATTERING OF ELECTROMAGNETIC-WAVES WITH MAGNETIZED BEAMS OF RELATIVISTIC OSCILLATORS  
ZHURNAL TEKHNICHESKOI FIZIKI 52(9), 1741-1747 (1982)
285. KUZELEV, MV; MUKHAMETZIANOV, FK; RABINOVICH, MS; RUKHADZE, AA; STRELKOV, PS; SHKVARUNETS, AG.  
A RELATIVISTIC PLASMA UHF GENERATOR  
DOKLADY AKADEMII NAUK SSSR 267(4), 829-832 (1982)
286. KUZELEV, MV; MUKHAMETZYANOV, FK; RABINOVICH, MS; RUKHADZE, AA; STRELKOV, PS; SHKVARUNETS, AG.  
RELATIVISTIC PLASMA UHF GENERATOR  
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 83(4), 1358-1367 (1982)
287. RUKHADZE, AA; TESELKIN, SF.  
STRUCTURE OF THE PERTURBATION OF SLIGHTLY IONIZED PLASMA DURING THE DISCONTINUOUS FLOW OF NEUTRAL COMPONENTS  
ZHURNAL TEKHNICHESKOI FIZIKI 52(11), 2129-2133 (1982)
288. OMAROV, OA; RUKHADZE, AA; SHIKHAEV, AS.  
PLASMA MECHANISM OF THE BREAKTHROUGH OF GASES IN A STRONG LONGITUDINAL MAGNETIC-FIELD  
ZHURNAL TEKHNICHESKOI FIZIKI 52(2), 255-259 (1982)
289. KUZELEV, M.V.; MUKHAMETZYANOV, F.KH.; RABINOVICH, M.S.; RUKHADZE, A.A.; STRELKOV, P.S.; SHKVARUNETS, A.G..  
RELATIVISTIC PLASMA MICROWAVE OSCILLATOR  
SOVIET PHYSICS - JETP 56(4), 780 (1982)
290. BELOV, N.E.; KARBUSHEV, N.I.; RUKHADZE, A.A..  
THEORY OF EXCITATION OF PLASMA TRAVELING WAVE TUBES  
SOVIET PHYSICS - TECHNICAL PHYSICS 27(8), 1026 (1982)
291. IGNATOV, A.M.; RUKHADZE, A.A..  
SCREENING OF A STATIC CHARGE IN AN ANISOTROPIC PLASMA  
FIZIKA PLAZMY 8(1), 80 (1982)
292. KUZELEV, M.V.; RUKHADZE, A.A.; FILIPPYCHEV, D.S..  
NONLINEAR THEORY OF THE INTERACTION OF HIGH-CURRENT ELECTRON BEAMS WITH PLASMA IN A WAVEGUIDE  
FIZIKA PLAZMY 8(3), 537 (1982)

293. KUZELEV, M.V.; MUKHAMETZIANOV, F.KH.; RABINOVICH, M.S.; RUKHADZE, A.A.; STRELKOV, P.S.; SHKVARUNETS, A.G..  
RELATIVISTIC PLASMA MICROWAVE GENERATOR  
SOVIET PHYSICS - DOKLADY 27(12), 1030 (1982)
294. AVRAMENKO, RF; RUKHADZE, AA; TESELKIN, SF.  
STRUCTURE OF A SHOCK-WAVE IN A WEAKLY IONIZED NON-ISOTHERMAL PLASMA  
JETP LETTERS 34(9), 463-466 (1981)
295. BOGDANKEVICH, LS; KUZELEV, MV; RUKHADZE, AA.  
PLASMA MICROWAVE ELECTRONICS  
USPEKHI FIZICHESKIKH NAUK 133(1), 3-32 (1981)
296. IGNATOV, AM; RUKHADZE, AA.  
ON NONUNIFORMITY OF THE DETERMINATION OF THE MATERIAL MEDIA PERMEABILITY  
USPEKHI FIZICHESKIKH NAUK 135(1), 171-174 (1981)
297. IVANOV, VS; KREMENTSOV, SI; KUTSENKO, VA; RAIZER, MD; RUKHADZE, AA; FEDOTOV, AV.  
NONSTATIONARY PHENOMENA DURING THE TRANSPORTATION OF HEAVY-CURRENT  
ELECTRON-BEAMS IN IRREGULAR WAVE-GUIDES  
ZHURNAL TEKHNICHESKOI FIZIKI 51(3), 561-567 (1981)
298. IVANOV, VS; KREMENTSOV, SI; KUTSENKO, VA; RAIZER, MD; RUKHADZE, AA; FEDOTOV, AV.  
THE STUDY OF CHERENKOV RELATIVISTIC AUTOGENERATOR  
ZHURNAL TEKHNICHESKOI FIZIKI 51(5), 970-975 (1981)
299. KARBUSHEV, NI; RUKHADZE, AA.  
EXCITED VIBRATIONS ON SEMI-CYCLOTRON FREQUENCY IN SYSTEM OF COUNTER RELATIVISTIC  
ELECTRON-BEAMS  
ZHURNAL TEKHNICHESKOI FIZIKI 51(3), 475-483 (1981)
300. RUKHADZE, AA; KISTEMAKER, J.  
ABOUT THE POSSIBILITY OF EXISTENCE OF CURRENT-CONVECTIVE INSTABILITY IN REB-NEUTRAL  
GAS INJECTION EXPERIMENTS  
PLASMA PHYSICS AND CONTROLLED FUSION 23(10), 979-984 (1981)
301. KARBUSHEV, NI; RUKHADZE, AA.  
GENERATION OF SEMI-CYCLOTRON VIBRATIONS IN COUNTER RELATIVISTIC BEAMS OF  
SPINNING ELECTRONS  
ZHURNAL TEKHNICHESKOI FIZIKI 51(3), 484-489 (1981)
302. KUZELEV, MV; RUKHADZE, AA; FILIPPYCHEV, DS.  
ACCELERATION OF HEAVY-CURRENT ELECTRON-FLUXES BY THE PLASMA-WAVE FIELD OF  
LARGE-AMPLITUDE  
ZHURNAL TEKHNICHESKOI FIZIKI 51(11), 2446-2449 (1981)
303. IGNATOV, A.M.; RUKHADZE, A.A..  
AMBIGUITY IN THE DEFINITION OF THE MAGNETIC PERMEABILITY OF MATERIAL MEDIA  
SOVIET PHYSICS - USPEKHI 24(9), 795 (1981)
304. BOGDANKEVICH, L.S.; KUZELEV, M.V.; RUKHADZE, A.A..  
PLASMA MICROWAVE ELECTRONICS  
SOVIET PHYSICS - USPEKHI 24(1), 1 (1981)
305. IVANOV, V.S.; KREMENTSOV, S.I.; RAIZER, M.D.; RUKHADZE, A.A.; FEDOTOV, A.V..  
FILAMENT-LIKE STRUCTURE OF A TUBULAR RELATIVISTIC ELECTRON BEAM  
FIZIKA PLAZMY 7(4), 784 (1981)

306. AVRAMENKO, R.F.; RUKHADZE, A.A.; TESELKIN, S.F..  
STRUCTURE OF THE SHOCK WAVE IN A WEAKLY IONISED NONISOTHERMAL PLASMA  
PIS'MA V ZHURNAL EKSPERIMENTAL'NOI I TEORETICHESKOI FIZIKI 34(9), 485 (1981)
307. IVANOV, V.S.; KREMENTSOV, S.I.; KUTSENKO, V.A.; RAIZER, M.D.; RUKHADZE, A.A.; FEDOTOV, A.V..  
INVESTIGATION OF A RELATIVISTIC CERENKOV SELF-GENERATOR  
SOVIET PHYSICS - TECHNICAL PHYSICS 26(5), 580 (1981)
308. IVANOV, V.S.; KREMENTSOV, S.I.; KUTSENKO, V.A.; RAIZER, M.D.; RUKHADZE, A.A.; FEDOTOV, A.V..  
TRANSIENT PHENOMENA IN THE TRANSPORT OF HIGH-CURRENT ELECTRON BEAMS IN  
IRREGULAR WAVEGUIDES  
SOVIET PHYSICS - TECHNICAL PHYSICS 26(3), 336 (1981)
309. KUZELEV, M.V.; RUKHADZE, A.A..  
THEORY OF SATELLITE INSTABILITY OF A MODULATED BEAM EQUILIBRIUM STATE IN A PLASMA  
FIZIKA PLAZMY 7(1), 91 (1981)
310. KUZELEV, M. V.; POEZD, E. D.; RUKHADZE, A. A..  
ON THE BEAM INSTABILITIES IN FINITE SYSTEMS NEAR THE OPACITY BANDS  
BULL. LEBEDEV PHYS. INST. (12), 42 (1981)
311. RUKHADZE, A.A..  
INTERACTION OF HIGH-CURRENT RELATIVISTIC ELECTRON BEAMS WITH PLASMA. PHYSICAL  
NATURE OF THE PHENOMENON AND ITS APPLICATION IN MICROWAVE ELECTRONICS  
CONFERENCE: MODERN PLASMA PHYSICS. TRIESTE COURSE 1979. 1979 AUTUMN COLLEGE ON  
PLASMA PHYSICS LOCATION: TRIESTE, ITALY DATE: 16 OCT.-23 NOV. 1979 , 537 (1981)
312. BOGDANKEVICH, LS; KUZELEV, MV; RUKHADZE, AA.  
THEORY FOR EXCITATION OF CORRUGATED PLASMA RESONATORS BY RELATIVISTIC ELECTRON-  
BEAMS  
ZHURNAL TEKHNICHESKOI FIZIKI 50(2), 233-240 (1980)
313. OMAROV, OA; RUKHADZE, AA.  
APPEARANCE OF PLASMA STAGES OF AVALANCHE DEVELOPMENT IN SPARK DISRUPTION OF  
GASES  
ZHURNAL TEKHNICHESKOI FIZIKI 50(3), 536-539 (1980)
314. GARUCHAVA, DP; KARBUSHEV, NI; RUKHADZE, AA.  
KINETIC-THEORY OF ELECTROMAGNETIC-WAVE PASSING THROUGH THE CONDUCTING  
PLASMA-LAYER  
RADIOTEKHNIKA I ELEKTRONIKA 25(12), 2601-2611 (1980)
315. ALTERKOP, BA; VOLOKITIN, AS; ROSINSKII, SE; RUKHADZE, AA; TARAKANOV, VP.  
NON-LINEAR DYNAMICS OF RELATIVISTIC ELECTRON-BEAM IN SPATIALLY LIMITED PLASMA  
ZHURNAL TEKHNICHESKOI FIZIKI 50(1), 226-229 (1980)
316. BOGDANKEVICH, L.S.; KUZELEV, M.V.; RUKHADZE, A.A..  
THEORY OF EXCITATION OF PLASMA-FILLED RIPPLED-BOUNDARY RESONATORS BY  
RELATIVISTIC ELECTRON BEAMS  
SOVIET PHYSICS - TECHNICAL PHYSICS 25(2), 143 (1980)
317. KUZELEV, M.V.; RUKHADZE, A.A..  
THEORY FOR A PLASMA SOURCE WITH A CURRENT ABOVE THE VACUUM LIMIT  
SOVIET TECHNICAL PHYSICS LETTERS 6(11), 597 (1980)

318. OMAROV, O.A.; RUKHADZE, A.A..  
PLASMA STAGE IN THE AVALANCHE DURING SPARK BREAKDOWN OF GASES  
SOVIET PHYSICS - TECHNICAL PHYSICS 25(3), 323 (1980)
319. ARUTYUNYAN, S.G.; RUKHADZE, A.A..  
BREAKDOWN OF A GAS BY AN ELECTROMAGNETIC FIELD OF HIGH INTENSITY  
FIZIKA PLAZMY 5(3), 702 (1979)
320. BOGDANKEVICH, L.S.; KUZELEV, M.V.; RUKHADZE, A.A..  
EXCITATION OF ELECTROMAGNETIC WAVES BY A TUBULAR ELECTRON BEAM IN A PLASMA  
WAVEGUIDE OF FINITE LENGTH  
FIZIKA PLAZMY 5(1), 90 (1979)
321. BOGDANKEVICH, LS; RABINOVICH, MS; RUKHADZE, AA.  
RELATIVISTIC HIGH-CURRENT UHF PLASMA ELECTRONICS  
IZVESTIYA VYSSHIKH UCHEBNYKH ZAVEDENII FIZIKA (10), 47 (1979)
322. GUSEVA, GI; RUKHADZE, AA; RUKHLIN, VG.  
DYNAMICS OF INDUCED FIELDS DURING THE INJECTION OF RELATIVISTIC ELECTRON-BEAM  
INTO WEAK-IONIZED PLASMA  
ZHURNAL TEKHNICHESKOI FIZIKI 49(12), 2535 (1979)
323. KUZELEV, M.V.; RUKHADZE, A.A..  
NUMERICAL SIMULATION OF THE NONLINEAR EVOLUTION OF THE TWO-STREAM INSTABILITY  
IN A BOUNDED PLASMA  
SOVIET PHYSICS - TECHNICAL PHYSICS 24(6), 654 (1979)
324. KUZELEV, MV; RUKHADZE, AA.  
NUMERICAL MODELING OF NONLINEAR DYNAMICS OF BEAM INSTABILITY IN LIMITED PLASMA  
ZHURNAL TEKHNICHESKOI FIZIKI 49(6), 1182 (1979)
325. OMAROV, OA; RUKHADZE, AA; SHNEERSON, GA.  
PLASMA MECHANISM OF HIGH-PRESSURE GAS-BREAKDOWN IN A STRONG STEADY ELECTRIC-  
FIELD  
ZHURNAL TEKHNICHESKOI FIZIKI 49(9), 1997 (1979)
326. ZHUKOV, PG; IVANOV, VS; RABINOVICH, MS; RAIZER, MD; RUKHADZE, AA.  
STIMULATED COMPTON-SCATTERING BY A RELATIVISTIC ELECTRON-BEAM  
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 76(6), 2065 (1979)
327. KREMENTSOV, VI; PETELIN, MI; RABINOVICH, MS; RUKHADZE, AA; STRELKOV, PS;  
SHKVARUNETS, AG.  
GYROTRON WITH A RELATIVISTIC SUPER-VACUUM ELECTRON-BEAM WITH PLASMA FILLING  
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 75(6), 2151 (1978)
328. KUZELEV, M.V.; LIPEROVSKAYA, E.V.; RUKHADZE, A.A..  
NUMERICAL ANALYSES OF THE ELECTROMAGNETIC WAVE FREQUENCY SPECTRA IN A PLASMA  
WAVEGUIDE  
FIZIKA PLAZMY 4(2), 433 (1978)
329. AL'TERKOP, B.A.; VOLOKITIN, A.S.; ROSINSKII, V.E.; RUKHADZE, A.A.; TARAKANOV, V.P..  
NONLINEAR DYNAMICS OF BEAM INSTABILITIES IN SPATIALLY-CONFINED PLASMA  
FIZIKA PLAZMY 3(1), 173 (1977)
330. BOGDANKEVICH, L.S.; RUKHADZE, A.A..  
THEORY OF A RELATIVISTIC PLASMA RADIATOR  
SOVIET PHYSICS - TECHNICAL PHYSICS 22(2), 145 (1977)

331. BOGDANKEVICH, LS; RUKHADZE, AA.  
THEORY OF RELATIVISTIC PLASMA EMITTER  
ZHURNAL TEKHNICHESKOI FIZIKI 47(2), 249 (1977)
332. BOGDANKEVICH, LS; RUKHADZE, AA; RUKHLIN, VG.  
THEORY OF HIGH-CURRENT PLASMA MASER ON CYCLOTRON-RESONANCE  
ZHURNAL TEKHNICHESKOI FIZIKI 47(3), 482 (1977)
333. ARONOV, BI; BOGDANKEVICH, LS; RUKHADZE, AA.  
EXCITATION OF COHERENT ELECTROMAGNETIC RADIATION IN PLASMA WAVEGUIDES BY  
RELATIVISTIC ELECTRON-BEAMS  
PLASMA PHYSICS AND CONTROLLED FUSION 18(2), 101 (1976)
334. IVANOV, ST; KOTETISHVILI, VG; ROSINSKII, SE; RUKHADZE, AA.  
COHERENT MICRORADIATION EXCITED BY ELECTRON-BEAM IN PLASMA OF SOLID  
FIZIKA TVERDOGO TELA 18(6), 1614 (1976)
335. RABINOVICH, M.S.; RUKHADZE, A.A..  
PRINCIPLES OF RELATIVISTIC MICROWAVE PLASMA ELECTRONICS  
FIZIKA PLAZMY 2(5), 715 (1976)
336. ROSINSKII, S.E.; RUKHADZE, A.A.; RUKHLIN, V.G.; TARAKANOV, V.P..  
STABILITY OF A RELATIVISTIC ELECTRON BEAM IN A PLASMA  
SOVIET PHYSICS - TECHNICAL PHYSICS 21(6), 687 (1976)
337. WALLIS, G.; SAUER, K.; SUNDER, D.; ROSINSKII, S.E.; RUKHADZE, A.A.; RUKHLIN, V.G..  
INJECTION OF HIGH-CURRENT RELATIVISTIC ELECTRON BEAMS INTO PLASMA AND GAS  
SOVIET PHYSICS - USPEKHI 17(4), 492 (1975)
338. ABUASALI, E; ALTERKOP, BA; RUKHADZE, AA.  
NONLINEAR ION-ACOUSTIC OSCILLATIONS OF A NONISOTHERMAL CURRENT-CARRYING  
PLASMA CLOSE TO INSTABILITY THRESHOLD  
PLASMA PHYSICS AND CONTROLLED FUSION 17(3), 189 (1975)
339. ARONOV, V. A.; BOGDANKEVICH, L. S.; RUKHADZE, A. A.; SMIRNOV, B. M..  
BULK AND SURFACE ELECTROMAGNETIC WAVES IN SPATIALLY BOUNDED PLASMA AND THEIR  
EXCITATION BY RELATIVISTIC ELECTRON BEAMS  
PUBLISHER: ATOMIZDAT, MOSCOW, RUSSIA 2, 245 (1975)
340. ASKAR'YAN, G.A.; NAMIOT, V.A.; RUKHADZE, A.A..  
CHANGE OF PLASMA MASS COMPOSITION IN PLASMA TRAPS CAUSED BY IONIC CYCLOTRON  
HEATING  
PIS'MA V ZHURNAL TEKHNICHESKOI FIZIKA 1(18), 820 (1975)
341. DOLZHENKO, OV; DOLADZE, TD; IVANOV, ST; RUKHADZE, AA; CHOGOVDZE, ME.  
NONLINEAR-THEORY OF ELECTRON-BEAM EXCITATION OF SURFACE ELECTROMAGNETIC-  
WAVES IN A DIELECTRIC MEDIUM  
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 68(4), 1304 (1975)
342. IVANOV, ST; DOLGENKO, OV; RUKHADZE, AA.  
NONLINEAR-THEORY OF ELECTROMAGNETIC-WAVE EXCITATION BY A RELATIVISTIC ELECTRON-  
BEAM IN A METAL WAVEGUIDE, FILLED WITH A DIELECTRIC MEDIUM  
JOURNAL OF PHYSICS A-MATHEMATICAL AND GENERAL 8(4), 585 (1975)
343. KREMENTSOV, VI; RABINOVICH, MS; RUKHADZE, AA; STRELKOV, PS; SHKVARUNETS, AG.  
EXCITATION OF ELECTROMAGNETIC-WAVES IN A PLASMA LOCATED IN A HOMOGENEOUS

MAGNETIC-FIELD BY AN INTENSE RELATIVISTIC ELECTRON-BEAM  
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 69(4), 1218 (1975)

344. ALEKSANDROV, A.F.; RUKHADZE, A.A..  
HIGH CURRENT ELECTRIC DISCHARGE LIGHT SOURCES  
SOVIET PHYSICS - USPEKHI 17(1), 44 (1974)
345. ALTERKOP, BA; MISHIN, EV; RUKHADZE, AA.  
CONTRIBUTION TO THEORY OF MAGNETIC INSTABILITY OF A LASER PLASMA  
JETP LETTERS 19(5), 170 (1974)
346. ALEKSANDROV, AF; MARSHAK, IS; RUKHADZE, AA.  
THEORY OF RADIATING DISCHARGES, LIMITED BY WALLS  
ZHURNAL TEKHNICHESKOI FIZIKI 44(3), 491 (1974)
347. DOLZHENKO, OV; ZOSIMOV, AV; RUKHADZE, AA.  
EXCITATION OF SURFACE ELECTROMAGNETIC-WAVES IN A PLASMA CYLINDER, STREAMLINED  
BY TUBULAR ELECTRON-BEAM  
ZHURNAL TEKHNICHESKOI FIZIKI 44(5), 977 (1974)
348. LOLADZE, TD; RUKHADZE, AA; CHOGOVDZE, ME.  
NONLINEAR-THEORY OF EXCITATION OF ELECTROMAGNETIC-WAVES IN A DIELECTRIC MEDIUM  
BY A NONRELATIVISTIC ELECTRON-BEAM  
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 67(3), 875 (1974)
349. ROSINSKII, SE; ROSTOMYA.EV; RUKHADZE, AA; RUKHLIN, VG.  
THEORY OF INJECTION OF A RELATIVISTIC ELECTRON-BEAM INTO A SPATIAL RESTRICTED  
PLASMA  
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 66(4), 1350 (1974)
350. ALEKSANDROV, AF; RUKHADZE, AA.  
HIGH-CURRENT ELECTRODISCHARGE SOURCES OF LIGHT  
USPEKHI FIZICHESKIKH NAUK 112(2), 193 (1974)
351. KIKVIDZE, RR; KOTETESH.VG; RUKHADZE, AA.  
ELECTRON-BEAM INTERACTION WITH SOLID-STATE PLASMA  
FIZIKA TVERDOGO TELA 15(2), 622 (1973)
352. ARONOV, BI; BOGDANKE.LS; RUKHADZE, AA.  
ELECTROMAGNETIC RADIATION DURING EXCITATION OF SURFACE-WAVES IN A PLASMA BY  
RELATIVISTIC ELECTRON-BEAM  
ZHURNAL TEKHNICHESKOI FIZIKI 43(4), 716 (1973)
353. ALEKSANDROV, AF; ZOSIMOV, VV; RUKHADZE, AA; SAVOSKIN, VI; TIMOFEEV, IB.  
STUDY OF EQUILIBRIUM AND STABILITY OF SELF-COMPRESSED DISCHARGES IN AN OPTICALLY  
DENSE PLASMA  
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 64(5), 1568 (1973)
354. KIKVIDZE, RR; RUKHADZE, AA; KOTETESH.VG.  
EXCITATION OF LONGITUDINAL ELECTROMAGNETIC WAVES BY ELECTRON-BEAM IN SOLID  
PLASMA  
FIZIKA TVERDOGO TELA 14(1), 183 (1972)
355. RUKHADZE, AA; RUKHLIN, VG.  
INJECTION OF A RELATIVISTIC ELECTRON-BEAM INTO A PLASMA  
SOVIET PHYSICS JETP-USSR 34(1), 93 (1972)



356. ZHELYAZKOV, I; RUKHADZE, AA.  
INSTABILITY OF INHOMOGENEOUS PLASMA STREAMS  
PLASMA PHYSICS 14(2), 167 (1972)
357. BOGDANKE.LS; RAZER, MD; RUKHADZE, AA; STRELKOV, PS.  
INVESTIGATION OF HIGH FREQUENCY INSTABILITY THRESHOLD IN INTERACTION BETWEEN AN  
ELECTRON BEAM AND A PLASMA  
SOVIET PHYSICS JETP-USSR 31(4), 655 (1970)
358. BOGDANKEVICH, LS; ZHELYAZK.II; RUKHADZE, AA.  
LIMITING CURRENTS IN RELATIVISTIC ELECTRON BEAMS  
SOVIET PHYSICS JETP-USSR 30(1), 174 (1970)
359. KOVTUN, RI; RUKHADZE, AA.  
NONLINEAR INTERACTION OF A LOW-DENSITY RELATIVISTIC ELECTRON BEAM WITH A PLASMA  
SOVIET PHYSICS JETP-USSR 31(5), 915 (1970)
360. ZHELYAZKOV, II; RUKHADZE, AA.  
INSTABILITY OF AN ELECTRON BEAM WITH A VELOCITY GRADIENT  
SOVIET PHYSICS TECHNICAL PHYSICS-USSR 15(2), 188 (1970)
361. RUKHADZE, AA; SILIN, VP.  
KINETIC THEORY OF DRIFT-DISSIPATIVE INSTABILITIES OF A PLASMA  
SOVIET PHYSICS USPEKHI-USSR 11(5), 659 (1969)
362. BOGDANKEVICH, LS; RUKHADZE, AA; ZHELYAZKOV, II.  
STABILITY OF INHOMOGENEOUS RELATIVISTIC ELECTRON BEAMS  
NUCLEAR FUSION 9(3), 239 (1969)
363. RUKHADZE, AA; TRIGER, SA.  
CONSTRICTIONS IN A PLASMA OF FINITE CONDUCTIVITY  
SOVIET PHYSICS JETP-USSR 29(3), 553 (1969)
364. ALEKSANDROV, AF; KUZOVNIKOV, AA; NIKOLOV, N; RUKHADZE, AA.  
LOW-FREQUENCY RESONANCES AND AVERAGED FIELD POTENTIAL IN A NON-ISOTHERMAL  
PLASMA  
NUCLEAR FUSION 9(2), 137 (1969)
365. BAIKOV, IS; RUKHADZE, AA.  
DRIFT OSCILLATIONS IN A WEAKLY IONIZED PLASMA  
SOVIET PHYSICS TECHNICAL PHYSICS-USSR 13(10), 1315 (1969)
366. BOGDANKEVICH, LS; MILICH, B; RUKHADZE, AA.  
KINETIC THEORY OF DRIFT-DISSIPATIVE PLASMA INSTABILITY  
SOVIET PHYSICS TECHNICAL PHYSICS-USSR 12(10), 1424 (1968)
367. LOMINADZE, D.G.; RUKHADZE, A.A..  
INTERACTION OF SPIN AND CYCLOTRON WAVES IN NONFERROMAGNETIC METALS  
FIZIKA METALLOV I METALLOVEDENIE 26(6), 1117 (1968)
368. MILICH, B; RUKHADZE, AA.  
STABILITY THEORY FOR A WEAKLY IONIZED PLASMA IN AN EXTERNAL ELECTRIC FIELD  
SOVIET PHYSICS TECHNICAL PHYSICS-USSR 13(2), 166 (1968)
369. BOGDANKEVICH, LS; RUKHADZE, AA.  
DRIFT-CYCLOTRON OSCILLATIONS OF A COLLISION PLASMA PROPAGATING ACROSS A  
MAGNETIC FIELD  
SOVIET PHYSICS JETP-USSR 24(2), 418 (1967)

370. KIKVIDZE, RR; RUKHADZE, AA; FETISOV, EP.  
EXCITATION OF ELECTROMAGNETIC WAVES IN A SOLID-STATE PLASMA IN PRESENCE OF A  
NEGATIVE CURRENT-VOLTAGE CHARACTERISTIC  
SOVIET PHYSICS SOLID STATE,USSR 9(5), 1055 (1967)
371. LOVETSKI.EE; RUKHADZE, AA.  
THEORY OF HYDRODYNAMIC STABILITY OF INHOMOGENEOUS PLASMA FLUXES  
NUCLEAR FUSION 6(1), 9 (1966)
372. BOGDANKE.LS; RUKHADZE, AA.  
STABILITY OF A SPATIALLY INHOMOGENEOUS CURRENT-CARRYING PLASMA  
NUCLEAR FUSION 6(3), 176 (1966)
373. VESELAGO, VG; GLUSHKOV, MV; RUKHADZE, AA.  
ELECTROMAGNETIC WAVE AMPLIFICATION IN A SOLID-STATE PLASMA  
SOVIET PHYSICS SOLID STATE,USSR 8(1), 18 (1966)
374. BAIKOV, IS; RUKHADZE, AA.  
EXCITATION OF OSCILLATIONS IN COUNTERSTREAMING INHOMOGENEOUS PLASMA STREAMS  
SOVIET PHYSICS TECHNICAL PHYSICS-USSR 10(11), 1477 (1966)
375. MIKHAILOVSKII, AB; RUKHADZE, AA.  
INSTABILITIES OF ELECTRON WAVES IN INHOMOGENEOUS PLASMA STREAMS  
SOVIET PHYSICS TECHNICAL PHYSICS-USSR 10(12), 1644 (1966)
376. BAKANOV, S.P.; RUKHADZE, A.A..  
EXCITATION OF ELECTROMAGNETIC WAVES IN PLASMAS IN AN EXTERNAL ELECTRIC FIELD  
ZHURNAL EKSPERIMENTAL'NOI I TEORETICHESKOI FIZIKI 48(6), 1656 (1965)
377. LOVETSKI.EE; RUKHADZE, AA.  
ACCELERATION OF ELECTRONS IN A PLASMA SITUATED IN A STRONG ELECTRIC FIELD  
SOVIET PHYSICS JETP-USSR 21(2), 342 (1965)
378. RUKHADZE, AA; SHPIGEL, IS.  
ON STABILIZATION OF FLUTE INSTABILITY OF A PLASMA BY AN INHOMOGENEOUS ELECTRIC  
FIELD  
SOVIET PHYSICS JETP-USSR 21(1), 103 (1965)
379. SILENT, VP; RUKHADZE, AA.  
METHOD OF GEOMETRICAL OPTICS IN THE ELECTRODYNAMICS OF AN INHOMOGENEOUS  
PLASMA  
PHYS. USP. 7, 499 (1964)
380. RAMAZASHVILI, RR; RUKHADZE, AA; SILIN, VP.  
TEMPERATURE EQUILIBRATION RATE FOR CHARGED PARTICLES IN A PLASMA  
SOVIET PHYSICS JETP-USSR 16(4), 939 (1963)
381. GINZBURG, VL; RUKHADZE, AA; SILIN, VP.  
ELECTRODYNAMICS OF CRYSTALS AND THEORY OF EXCITATIONS  
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS 23(JAN-F), 85 (1962)
382. MAKHANKOV, VG; RUKHADZE, AA.  
EXCITATION OF ELECTROMAGNETIC WAVES ACROSS A BEAM OF CHARGED PLASMA PARTICLES  
NUCLEAR FUSION 2(3-4), 177 (1962)
383. RUKHADZE, AA.  
INTERACTION OF A CHARGED-PARTICLE BEAM WITH A PLASMA  
SOVIET PHYSICS-TECHNICAL PHYSICS 7(6), 488 (1962)

384. RUKHADZE, AA.  
ELECTROMAGNETIC WAVES IN INTERPENETRATING PLASMAS  
SOVIET PHYSICS-TECHNICAL PHYSICS 6(10), 900 (1962)
385. RUKHADZE, AA; SILIN, VP.  
LINE SHAPE OF CYCLOTRON RESONANCE ABSORPTION IN A PLASMA  
SOVIET PHYSICS-TECHNICAL PHYSICS 7(4), 307 (1962)
386. RUKHADZE, AA; SILIN, VP.  
LINEAR ELECTROMAGNETIC PHENOMENA IN A PLASMA  
USPEKHI FIZICHESKIKH NAUK 76(1), 79 (1962)
387. LOVETSKII, EE; RUKHADZE, AA.  
HYDRODYNAMICS OF A NONISOTHERMAL PLASMA  
SOVIET PHYSICS JETP-USSR 14(6), 1312 (1962)
388. GREBENSHCHIKOV, S.E.; RAIZER, M.D.; RUKHADZE, A.A.; FRANK, A.G..  
REFLECTION AND REFRACTION OF SHOCK WAVES IN MAGNETOHYDRODYNAMICS  
ZHURNAL TEKHNICHESKOI FIZIKI 31(5), 529 (1961)
389. KONONOV, BP; SOLODUKHIN, GV; RUKHADZE, AA.  
ELECTRIC FIELD OF A RADIATOR IN A PLASMA IN AN EXTERNAL MAGNETIC FIELD  
SOVIET PHYSICS-TECHNICAL PHYSICS 6(5), 405 (1961)
390. RUKHADZE, AA; SILIN, VP.  
ELECTRODYNAMICS OF MEDIA WITH ANISOTROPIC DISPERSION  
USPEKHI FIZICHESKIKH NAUK 74(2), 223 (1961)
391. RUKHADZE, A. A.; SILIN, V. P..  
ELECTRODYNAMICS OF MEDIA WITH SPATIAL DISPERSION  
SOV. PHYS. USP. 4, 459 (1961)
392. RUKHADZE, AA; SILIN, VP.  
ON THE MAGNETIC SUSCEPTIBILITY OF A RELATIVISTIC ELECTRON GAS  
SOVIET PHYSICS JETP-USSR 11(2), 463 (1960)
393. AGRANOVICH, VN; PAFOMOV, VE; RUKHADZE, AA.  
CERENKOV RADIATION OF AN ELECTRON MOVING IN A MEDIUM WITH SPATIAL DISPERSION  
SOVIET PHYSICS JETP-USSR 9(1), 160 (1959)
394. BOLOTOVSKII, B.M.; RUKHADZE, A.A..  
FIELD OF A CHARGED PARTICLE IN A MOVING MEDIUM  
ZHURNAL EKSPERIMENTAL'NOI I TEORETICHESKOI FIZIKI 37(5(11)), 1346 (1959)
395. AGRANOVICH, V.M.; RUKHADZE, A.A..  
ENERGY LOSSES OF ELECTRONS IN MEDIA WITH SPATIAL DISPERSION  
ZHURNAL EKSPERIMENTAL'NOI I TEORETICHESKOI FIZIKI 35(5(11)), 1171 (1958)
396. AGRANOVICH, V.M.; RUKHADZE, A.A..  
PROPAGATION OF ELECTROMAGNETIC WAVES IN A MEDIUM, TAKING ACCOUNT OF SPATIAL DISPERSION  
ZHURNAL EKSPERIMENTAL'NOI I TEORETICHESKOI FIZIKI 35(4(10)), 982 (1958)