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PERSONALIA

Памяти Вячеслава Васильевича Осико

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15 ноября 2019 г. на 88-м году жизни ушёл из жизни академик Российской академии наук (РАН) Вячеслав Васильевич Осико, выдающийся физико-химик и организатор отечественной науки, яркий представитель российской школы экспериментальной физики и физического материаловедения. Основными направлениями научной деятельности В.В. Осико являлись физика и химия твёрдого тела, лазерная физика, материаловедение и нанотехнологии. Вячеслав Васильевич заложил физические и технологические основы оптического материаловедения, послужившего базисом для новых отраслей науки и техники.

В.В. Осико родился 28 марта 1932 г. в Ленинграде. В 1954 г. окончил Инженерный физико-химический факультет Московского химико-технологического института имени Д.И. Менделеева и по распределению приступил к работе в Лаборатории люминесценции в Физическом институте им. П.Н. Лебедева АН СССР (ФИАНе). С 1955 г. по 1960 г. В.В. Осико участвовал в работах по поиску, получению и исследованию неорганических фото- и катодолюминофоров под руководством М.А. Константиновой-Шлезингер. В 1960 г. им была защищена кандидатская диссертация.

В 1961 г. заработал первый лазер на кристалле синтетического рубина. Именно в этот момент Нобелевские лауреаты А.М. Прохоров и Н.Г.Басов поручают молодому учёному В.В. Осико организовать в ФИАНе новое подразделение — Отдел монокристаллов, в задачи которого входило создание "сердца" твердотельных лазеров, активных элементов на основе кристаллических и стеклообразных лазерных материалов. Молодой кандидат наук возглавил Отдел монокристаллов ФИАНа и занялся поиском, получением и исследованием материалов для новой области науки и техники — лазерной физики. Всё нужно было начинать с нуля — подбирать сотрудников, создавать оборудование, разрабатывать технологию и методы исследования материалов. Поначалу отдел назывался научно-производственным, призванным лишь обслуживать потребности фундаментальной науки. В 1968 г. подразделение вошло в состав Лаборатории колебаний ФИАНа, руководимой А.М. Прохоровым. В 1983 г., после образования Института общей физики АН СССР (ИОФАНа), подразделение становится Отделом физики твёрдого тела ИОФАН. В настоящее время это всемирно известный Научный центр лазерных материалов и технологий Института общей физики им. А.М. Прохорова РАН.

К концу 1960-х – началу 1970-х годов около четверти всех известных лазерных материалов были синтезированы под научным руководством и при самом непосредственном участии В.В. Осико. На их основе были созданы твердотельные лазеры нового типа с уникальными характеристиками. Так, на основе новых кристаллов флюорита с диспрозием и церием в Лаборатории колебаний ФИАНа были созданы мощные непрерывные лазеры (в течение ряда лет самые мощные твердотельные лазеры в мире). Для этого была разработана технология кристаллов фторидов, в том числе сложных с разупорядоченной структурой, активированных редкоземельными элементами в трёх- и двухвалентных состояниях. Было предложено для выращивания фторидов использовать активную фторирующую атмосферу продуктов пиролиза тефлона. Эта технология, получившая широкое распространение и развитие у нас в стране и за рубежом, позволяет выращивать лазерные кристаллы с предельно низкими оптическими потерями.

Вячеслав Васильевич Осико
(28.03.1932 – 15.11.2019)

Мировую известность имеют работы В.В. Осико в области плавления и кристаллизации тугоплавких материалов — диэлектриков путём прямого индукционного нагрева в холодном контейнере. Новый метод позволил отказаться от использования драгметаллов в качестве материала тигля, так как тиглем служит тонкая корочка самого расплавляемого вещества — гарнисаж, который к тому же совершенно не загрязняет расплав. Этим методом были получены не имеющие природных аналогов кристаллы кубического оксида циркония и гафния, названные "фианитами" в честь ФИАНа. Кристаллы за короткий срок широко распространились и сейчас по объёму производства среди всех монокристаллов занимают второе место в мире после монокристаллов кремния. За эти работы В.В. Осико был удостоен Ленинской премии (1980 г.).

В 1970-е – 1980-е годы работы В.В. Осико были посвящены обоснованию и разработке нового направления лазер-

ного материаловедения — так называемым высококонцентрированным кристаллам и стёклам, в которых концентрация активных ионов в катионной подрешётке составляет от нескольких десятков до ста процентов. Первым в серии таких кристаллов стал кристалл иттрий-эрбиевого граната. На этом кристалле созданы несколько типов эффективных лазеров, работающих на длине волны ~ 3 мкм, широко применяемых в медицине.

Был создан целый ряд материалов, получивших признание и широкое применение в мире. Разработана серия перестраиваемых лазеров и спектрометров на основе фторида лития с центрами окраски, работающих при комнатной температуре и перекрывающих видимую и ближнюю инфракрасную (ИК) области спектра. Эта аппаратура успешно работает в настоящее время во многих отечественных и зарубежных лабораториях.

Под руководством и при личном участии В.В. Осико 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. Получение фторидной керамики открыло возможность создания оптических приборов, сцинтилляторов и лазеров нового поколения.

На основе ранее разработанного В.В. Осико метода прямого высокочастотного нагрева в холодном контейнере была 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 "Плазматом" с инструментарием на основе кристаллического наноструктурированного частично стабилизированного диоксида циркония, включающая биполярные электрохирургические ножницы, выкусыватели и скальпели. Аппараты защищены патентами, сертифицированы и используются в медицинских учреждениях хирургического профиля.

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

Трудно однозначно отнести научные достижения Вячеслава Васильевича к одной отрасли знаний. В 1960 г. он защищает кандидатскую диссертацию на учёную степень кандидита химических наук, в 1968 г. он становится доктором физико-математических наук, в 1972 г. — профессором, в 1981 г. избирается членом-корреспондентом АН СССР по Отделению химии и наук о материалах, а в 1987 г. В.В. Осико избирается академиком АН СССР по Отделению физики и астрономии за достижения в области экспериментальной физики. Можно заключить, что выдающиеся результаты в узкой области научных исследований достижимы только на базе глубоких фундаментальных знаний и опыта в широкой области науки, включающей несколько её отраслей.

Вячеслав Васильевич был позитивным человеком, уделявшим особое внимание молодым исследователям, только начинающим свой путь в науке. Им подготовлено более 20 кандидатов наук, 8 докторов наук, среди его учеников академик РАН и член-корреспондент РАН. Вячеслав Васильевич являлся одним из руководителей учебно-научного центра ИОФ РАН – МХТУ им. Д.И. Менделеева. Он активно участвовал в работе совместной лаборатории ИОФ РАН и Мордовского государственного университета. В лабораториях Научного центра выполняют дипломные работы, магистерские и кандидатские диссертации студенты и аспиранты из многих московских и не только московских физических. технических и химических учебных заведений. Им лично и в соавторстве с коллегами написаны главы в научных сборниках ведущих зарубежных издательств, выпущен ряд монографий, среди которых: *Фианиты* (М.: Наука, 2001), *Лазерные материалы. Избранные труды* (М.: Наука, 2002), *Тугоплавкие материалы из холодного тигля* (М.: Наука, 2004). Две последние монографии переведены и изданы в научных издательствах Китая.

Кроме руководства Научным центром В.В. Осико выполнял и другую большую научно-организационную работу: председатель комиссии РАН по отбору изобретений научных организаций РАН для патентования зарубежом, сопредседатель комиссии РАН – Самсунг, на протяжении нескольких лет возглавлял национальную программу "Лазерная физика".

Официальным признанием заслуг В.В. Осико является награждение его орденом Трудового Красного Знамени (1974 г.), орденом Почёта (2002 г.), орденом Дружбы (2013 г.). Он удостоен Ленинской премии (1980 г.), премии Совета Министров (1991 г.), премии Лодиза Международной организации по росту кристаллов (1992 г.), премии имени Е.С. Фёдорова (2003 г.) за цикл работ по высокотемпературной кристаллизации, золотой медали им. А.М. Прохорова РАН (2018 г.).

Невозможно не отметить человеческие качества Вячеслава Васильевича. Всем, кто с ним общался, известно, что он обращался к собеседнику или говорил о человеке только по имени и отчеству, делая исключения (обращаясь только по имени) для особо близких людей. Служение науке преобладало над личными удобствами. Рабочий стол Вячеслава Васильевича в старом здании Института акустики, где зарождался отдел, располагался в небольшой проходной комнате. А когда в начале 1970-х годов появилось новое оборудование — растровый микроскоп "Комебакс", рабочий стол переместился в зал и расположился между оптическими столами, на которых трещали и сверкали макеты лазеров и гудели вакуумные насосы. Но в начале 1980-х годов оптическим установкам стало тесно и рабочий стол оказался в комнате между двумя ростовыми установками. За этим столом Вячеслав Васильевич готовил как собственные статьи и доклады, так и редактировал публикации сотрудников, обращая серьёзное внимание не только на научное содержание, но и на правильность языка. Это относилось и к статьям, соавтором которых он не являлся. Удивительно умело Вячеслав Васильевич мог разрешать межличностные конфликты, неизбежно возникающие в большом коллективе сотрудников, не лишённых амбиций, при этом не повышая голос ни на полтона. Появление нового отдела нанотехнологий в Научном центре было не только следствием развития науки, но и результатом такого решения.

Вячеслав Васильевич умел не только хорошо работать, но и хорошо отдыхать. С большой теплотой вспоминают сотрудники ежегодные сентябрьские шашлыки у него на даче вблизи Королёва — "Пролетарская, 23". Старые сотрудники ФИАНа могут помнить Славу Осико как азартного игрока в настольный теннис, чемпионом ФИАНа по которому он не раз становился. С начала 1960-х годов Вячеслав Васильевич был членом Центрального дома учёных РАН, а затем и членом Совета Центрального дома учёных. А в трудные 1990-е годы он активно защищал Центральный дом учёных от посягательств коммерческих структур.

У людей, знавших Вячеслава Васильевича, на долгие годы сохранится память о нём как о талантливом учёном, умелом руководителе, учителе и Человеке.

В.М. Бузник, В. В. Воронов, С.В. Гарнов, М.П. Егоров, В.К. Иванов, М.В. Ковальчук, В.И. Конов, Г.Я. Красников, Е.Е. Ломонова, П.П. Пашинин, В.Б. Цветков, И.А. Щербаков

Фото: https://www.gpi.ru/news/official/pamiati-viacheslava-vasilevicha-osiko-28-03-1932-15-11-2019/ , https://www.muctr.ru/news/prochie-novosti/pamyati-vyacheslava-vasilevicha-osiko/

Избранные труды

В.В. Осико, «Лазерные материалы. Избранные труды». М.: Наука. 2002.

Монографии

1. Ю.С. Кузьминов, В.В. Осико, Фианиты. М.: Наука, 2001.
2. Ю. С. Кузьминов, Е. Е. Ломонова, В. В. Осико, Тугоплавкие материалы из холодного тигля. М.: Наука, 2004.

Обзоры

1. P.P.FEDOROV, S.V. KUZNETSOV, V.V. OSIKO, VV., ELABORATIONOFNANOFLUORIDESANDCERAMICS FOR OPTICAL AND LASER APPLICATIONS. IN: PHOTONIC AND ELECTRONIC PROPERTIES OF FLUORIDE MATERIALS (EDS. A. TRESSAUD, K. POEPPELMEIER), ELSEVIER, 1, 7-31 (2016)

2. В. К. ИВАНОВ, П. П. ФЕДОРОВ, А. Е. БАРАНЧИКОВ, В. В. ОСИКО, ОРИЕНТИРОВАННОЕСРАЩИВАНИЕЧАСТИЦ: 100 ЛЕТИССЛЕДОВАНИЙНЕКЛАССИЧЕСКОГО МЕХАНИЗМА РОСТА КРИСТАЛЛОВ. УСП. ХИМ., 83:12 (2014), 1204–1222 [V. K. IVANOV, P. P. FEDOROV, A. Y. BARANCHIKOV, V. V. OSIKO, ORIENTED AGGREGATION OF PARTICLES: 100 YEARS OF INVESTIGATIONS OF NON-CLASSICAL CRYSTAL GROWTH. RUSSIAN CHEM. REVIEWS, 83:12 (2014), 1204–1222]
3. Т. Т. БАСИЕВ, В. В. ОСИКО, НОВЫЕ МАТЕРИАЛЫ ДЛЯ ВКР-ЛАЗЕРОВ. УСП. ХИМ., 75:10 (2006), 939–955 [T. T. BASIEV, V. V. OSIKO, NEW MATERIALS FOR SRS LASERS. RUSSIAN CHEM. REVIEWS, 75:10 (2006), 847–862]
4. С. В. КУЗНЕЦОВ, В. В. ОСИКО, Е. А. ТКАЧЕНКО, П. П. ФЕДОРОВ, НЕОРГАНИЧЕСКИЕ НАНОФТОРИДЫ И НАНОКОМПОЗИТЫ НА ИХ ОСНОВЕ. УСП. ХИМ., 75:12 (2006), 1193–1211 [S. V. KUZNETSOV, V. V. OSIKO, E. A. TKATCHENKO, P. P. FEDOROV, INORGANIC NANOFLUORIDES AND RELATED NANOCOMPOSITES. RUSSIAN CHEM. REVIEWS, 75:12 (2006), 1065–1082]
5. P.P. FEDOROV, V.V. OSIKO, VV, CRYSTAL GROWTH OF FLUORIDES. IN: BULK CRYSTAL GROWTH OF ELECTRONIC, OPTICAL & OPTOELECTRONIC MATERIALS (ED. P. CAPPER), WILEY, 339-355 (2005)
6. V.V.OSIKO, M.A. BORIK, E.E. LOMONOVA, CRUCIBLE-FREE METHODS OF GROWING OXIDE CRYSTALS FROM THE MELT, ANNUAL REVIEW OF MATERIALS SCIENCE 17, 101-122 (1987)
7. V.V. OSIKO, YU.K. VORONKO, A.A. SOBOL, SPECTROSCOPIC INVESTIGATION OF DEFECT STRUCTURES AND STRUCTURAL TRANSFORMATIONS IN IONIC CRYSTALS. IN: GROWTH AND DEFECT STRUCTURES (ED. H.C. FREYHARDT), HEIDELBERG, BERLIN: SPRINGER, 10, 37-86 (1984)
8. B.I. DENKER, V.V. OSIKO, P.P. PASHININ, A.M. PROKHOROV, CONCENTRATED NEODYMIUM LASER GLASSES (REVIEW). KVANTOVAYA ELEKTRONIKA 8(3), 469-483 (1981) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 11(3), 289 (1981)]
9. V.I. ALEKSANDROV, V.V. OSIKO, A.M. PROKHOROV, V.M. TATARINTSEV, SYNTHESIS AND CRYSTAL GROWTH AND REFRACTORY MATERIALS BY RF MELTING IN A COLD CONTAINER. IN: CURRENT TOPICS IN MATERIALS SCIENCE (ED. E KALDIS), NORTH-HOLLAND PUBL. CO, 1, CHAPTER 6 , 421 (1978)
10. В. И. АЛЕКСАНДРОВ, В. В. ОСИКО, А. М. ПРОХОРОВ, В. М. ТАТАРИНЦЕВ, ПОЛУЧЕНИЕ ВЫСОКОТЕМПЕРАТУРНЫХ МАТЕРИАЛОВ МЕТОДОМ ПРЯМОГО ВЫСОКОЧАСТОТНОГО ПЛАВЛЕНИЯ В ХОЛОДНОМ КОНТЕЙНЕРЕ. УСП. ХИМ., 47:3 (1978), 385–427 [V. I. ALEKSANDROV, V. V. OSIKO, A. M. PROKHOROV, V. M. TATARINTSEV, THE FORMATION OF HIGH-TEMPERATURE MATERIALS BY DIRECT HIGH-FREQUENCY FUSION IN A COLD CONTAINER. RUSSIAN CHEM. REVIEWS, 47:3 (1978), 213–237]

Статьи в журналах

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 (ZRO2)(1-X)(SC2O3)(X)(CEO2)(Y) AND (ZRO2)(1-X-Y-Z)(SC2O3)(X)(CEO2)(Y)(Y2O3)(Z) SOLID SOLUTION CRYSTALS
JOURNAL OF ALLOYS AND COMPOUNDS 791, 445-451 (2019)
4. 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)
5. 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)

6. 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)
7. 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)
8. 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)
9. 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)
10. 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)
11. 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)
12. 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 ZRO2-Y2O3 SOLID SOLUTION CRYSTALS GROWN BY DIRECTIONAL CRYSTALLIZATION OF THE MELT ON THEIR TRANSPORT CHARACTERISTICS
MATERIALS LETTERS 205, 186-189 (2017)
13. 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 ZRO2-BASED SOLID SOLUTIONS
PHYSICS OF THE SOLID STATE 59(10), 1934-1939 (2017)
14. 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)
15. 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:CAF2 LASER
OPTICS LETTERS 42(9), 1852-1855 (2017)
16. DOROSHENKO, ME; PAPASHVILI, AG; DUNAEVA, EE; IVLEVA, LI; OSIKO, VV.
THULIUM OPTICAL CENTERS IN TM,NB:SRMOO4 CRYSTAL
JOURNAL OF LUMINESCENCE 184, 44-47 (2017)
17. 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 ZRO2-BASED CRYSTALS DEPENDING ON THE CONTENT OF STABILIZING Y2O3 ADDITIVE
TECHNICAL PHYSICS LETTERS 43(3), 289-292 (2017)
18. DOROSHENKO, ME; OSIKO, VV; JELINKOVA, H; JELINEK, M; KOVALENKO, NO; TERZIN, IS.
CD1-XMNXTE (X=0.1-0.78) CRYSTALS DOPED WITH FE2+ IONS: SPECTROSCOPIC PROPERTIES AND LASER OSCILLATIONS AT 4.95-5.27 MU M AT LOW TEMPERATURE
LASER PHYSICS LETTERS 14(2), - (2017)

19. DOROSHENKO, ME; PAPASHVILI, AG; MARTYNOVA, KA; KONYUSHKIN, VA; NAKLADOV, AN; OSIKO, VV.
SPECTROSCOPIC PROPERTIES OF LONG-LIFETIME TM3+ 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)
20. 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)
21. 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)
22. DOROSHENKO, ME; PAPASHVILI, AG; DUNAEVA, EE; IVLEVA, LI; OSIKO, VV; JELINKOVA, H; SULC, J; NEMEC, M.
SPECTROSCOPIC AND LASER PROPERTIES OF SRMOO4:TM3+ CRYSTAL UNDER 1700-NM LASER DIODE PUMPING
OPTICAL MATERIALS 60, 119-122 (2016)
23. 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 MU M
OPTICS EXPRESS 24(17), 19824-19834 (2016)
24. 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)
25. 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)
26. 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 (ZRO2)(1-X - Y) (SC2O3) (X) (Y2O3) (Y) (X=0.035-0.11, Y=0-0.02) PREPARED BY SELECTIVE MELT CRYSTALLIZATION
RUSSIAN JOURNAL OF ELECTROCHEMISTRY 52(7), 655-661 (2016)
27. 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)
28. 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 (ZRO2)(1-X)(SC2O3)(X) SOLID SOLUTION CRYSTALS (X=0.035-0.11)
JOURNAL OF CRYSTAL GROWTH 443, 54-61 (2016)
29. ALIMOV, OK; DOROSHENKO, ME; KONYUSHKIN, VA; NAKLADOV, AN; PAPASHVILI, AG; OSIKO, VV.
SPECTROSCOPIC PROPERTIES OF TM3+ OPTICAL CENTERS AT THE F-3(4)-H-3(6) 2-MU M LASER TRANSITION IN BAF2 CRYSTAL
JOURNAL OF LUMINESCENCE 172, 219-223 (2016)
30. 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)
31. 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)
32. 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)
33. 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)
34. 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)
35. 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)
36. DOROSHENKO, ME; ALIMOV, OK; PAPASHVILI, AG; MARTYNOVA, KA; KONYUSHKIN, VA; NAKLADOV, AN; OSIKO, VV.
SPECTROSCOPIC AND LASER PROPERTIES OF TM3+ OPTICAL CENTERS IN CAF2 CRYSTAL UNDER 795 NM DIODE LASER EXCITATION
LASER PHYSICS LETTERS 12(12), - (2015)
37. ALIMOV, OK; DOROSHENKO, ME; KONYUSHKIN, VA; MARTYNOVA, KA; NAKLADOV, AN; PAPASHVILI, AG; OSIKO, VV.
INFLUENCE OF TM3+ 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)
38. 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)
39. DOROSHENKO, ME; OSIKO, VV; JELINKOVA, H; JELINEK, M; NEMEC, M; SULC, J; KOVALENKO, NO; GERASIMENKO, AS; PUZIKOV, VM.
SPECTROSCOPIC AND LASER PROPERTIES OF CR2+ IONS IN ZN1-XMGXSE SOLID SOLUTIONS
OPTICAL MATERIALS 47, 185-189 (2015)
40. 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 Y2O3
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY 35(6), 1889-1894 (2015)
41. DUNAEVA, EE; IVLEVA, LI; DOROSHENKO, ME; ZVEREV, PG; OSIKO, VV.
SRMOO4:PR3+ SINGLE CRYSTALS: GROWTH AND PROPERTIES
DOKLADY PHYSICS 60(3), 122-126 (2015)
42. 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 ND3+ DOPED ZIRCONIA: STRUCTURE AND LUMINESCENT PROPERTIES
JOURNAL OF ALLOYS AND COMPOUNDS 621, 295-300 (2015)
43. 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)
44. 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)
45. 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 YB3+/ER3+/TM3+-COACTIVATED STRONTIUM FLUORIDE POWDERS
MATERIALS CHEMISTRY AND PHYSICS 148(1-2), 201-207 (2014)
46. 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)

47. POPOV, PA; FEDOROV, PP; OSIKO, VV.
THERMAL CONDUCTIVITY OF SINGLE CRYSTALS OF THE CA1-XYXF2+X SOLID SOLUTION
DOKLADY PHYSICS 59(5), 199-202 (2014)
48. KUZNETSOV, SV; OVSYANNIKOVA, AA; TUPITSYNA, EA; YASYRKINA, DS; VORONOV, VV; BATYREV, NI; ISKHAKOVA, LD; OSIKO, VV; FEDOROV, PP.
PHASE FORMATION IN LAF3-NAGDF4, NAGDF4-NALUF4, AND NALUF4-NAYF4 SYSTEMS: SYNTHESIS OF POWDERS BY CO-PRECIPITATION FROM AQUEOUS SOLUTIONS
JOURNAL OF FLUORINE CHEMISTRY 161, 95-101 (2014)
49. 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)
50. 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 NAYF4:YB:ER NANOPOWDERS BY CO-CRYSTALLIZATION IN PRESENCE OF POLYETHYLENEIMINE
JOURNAL OF FLUORINE CHEMISTRY 158, 60-64 (2014)
51. 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)
52. 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 ND3+:YPO4 NANOCRYSTALS SUITABLE FOR IMAGING IN THE BIOLOGICAL TISSUE TRANSPARENCY WINDOW
PHYSICAL CHEMISTRY CHEMICAL PHYSICS 16(48), 26806-26815 (2014)
53. 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)
54. 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)
55. SULC, J; NEMEC, M; SVEJKAR, R; JELINKOVA, H; DOROSHENKO, ME; FEDOROV, PP; OSIKO, VV.
DIODE-PUMPED ER:CAF2 CERAMIC 2.7 MU M TUNABLE LASER
OPTICS LETTERS 38(17), 3406-3409 (2013)
56. JELINKOVA, H; DOROSHENKO, ME; JELINEK, M; SULC, J; OSIKO, VV; BADIKOV, VV; BADIKOV, DV.
DYSPROSIUM-DOPED PBGA2S4 LASER GENERATING AT 4.3 MU M DIRECTLY PUMPED BY 1.7 MU M LASER DIODE
OPTICS LETTERS 38(16), 3040-3043 (2013)
57. 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)
58. IVLEVA, LI; ZAKUTAILOV, KV; DUNAEVA, EE; OSIKO, VV.
STUDY OF MELTING AND CRYSTALLIZATION OF SODIUM VANADIUM OXIDE BRONZE
DOKLADY PHYSICAL CHEMISTRY 451, 176-179 (2013)
59. LYAPIN, AA; FEDOROV, PP; GARIBIN, EA; MALOV, AV; OSIKO, VV; RYABOCHKINA, PA; USHAKOV, SN.
SPECTROSCOPIC, LUMINESCENT AND LASER PROPERTIES OF NANOSTRUCTURED CAF2:TM MATERIALS
OPTICAL MATERIALS 35(10), 1859-1864 (2013)
60. 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)

61. POPOV, PA; LUGININA, AA; FEDOROV, PP; OSIKO, VV.
THERMAL CONDUCTIVITY OF SINGLE CRYSTALS OF M1-X M-X ' F-2 (M = CA, SR; M ' = MN, CO) ISOVALENT SOLID SOLUTIONS
INORGANIC MATERIALS 49(4), 427-429 (2013)
62. 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)
63. AKCHURIN, MS; BASIEV, TT; DEMIDENKO, AA; DOROSHENKO, ME; FEDOROV, PP; GARIBIN, EA; GUSEV, PE; KUZNETSOV, SV; KRUTOV, MA; MIRONOV, IA; OSIKO, VV; POPOV, PA.
CAF2:YB LASER CERAMICS
OPTICAL MATERIALS 35(3), 444-450 (2013)
64. 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)
65. 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)
66. 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)
67. 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)
68. 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)
69. 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)
70. 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)
71. 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)
72. 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)
73. 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)
74. 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:CAF2 CERAMICS
QUANTUM ELECTRONICS 42(9), 853-857 (2012)
75. 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)

76. KUZNETSOV, S. V.; RYABOVA, A. V.; LOS', D. S.; FEDOROV, P. P.; VORONOV, V. V.; ERMAKOV, R. P.; LOSHCHENOV, 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)
77. 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)
78. FEDOROV, PP; LUGININA, AA; KUZNETSOV, SV; OSIKO, VV.
NANOFLUORIDES
JOURNAL OF FLUORINE CHEMISTRY 132(12), 1012-1039 (2011)
79. 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)
80. 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)
81. KUZNETSOV, SV; FEDOROV, PP; VORONOV, VV; OSIKO, VV.
SYNTHESIS OF MGAL2O4 NANOPOWDERS
INORGANIC MATERIALS 47(8), 895-898 (2011)
82. 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 M ER:YLF LASER RADIATION
LASER PHYSICS LETTERS 8(5), 349-353 (2011)
83. SHCHEULIN, AS; RYSKIN, AI; ANGERVAKS, AE; FEDOROV, PP; OSIKO, VV; DEMIDENKO, AA; GARIBIN, EA; SMIRNOV, AN; DUKEL'SKII, KV; MIRONOV, IA.
ADDITIVE COLORING OF CAF2 OPTICAL CERAMIC
OPTICS AND SPECTROSCOPY 110(4), 604-608 (2011)
84. 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:CAF2 CERAMICS: POTENTIAL GAIN MEDIA FOR TWO-MICRON LASERS
QUANTUM ELECTRONICS 41(3), 193-197 (2011)
85. 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)
86. 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)
87. 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 PHYSICOCHEMICAL AND EMISSION-GETTER CHARACTERISTICS
NANOTECHNOLOGIES IN RUSSIA 6(5-6), 379 (2011)
88. 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 FIANITE AND ZRO2 COATINGS FOR SOLAR CELLS
BULLETIN OF THE RUSSIAN ACADEMY OF SCIENCES. PHYSICS 75(9), 1213 (2011)
89. IVLEVA, LI; OSIKO, VV; PETROV, VS; NIKOLAEVSKY, AV; DUNAEVA, EE.
MECHANISM OF FORMATION OF NAXV2O5 BRONZE CRYSTALS GROWN FROM THE MELT BY CZOCHRALSKI METHOD
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES 67, C460-C460 (2011)
90. BASIEV, TT; DOROSHENKO, ME; KONYUSHKIN, VA; OSIKO, VV.
SRF2:ND3+ LASER FLUORIDE CERAMICS

OPTICS LETTERS 35(23), 4009-4011 (2010)

91. VANETSEV, AS; KARPUKHINA, EA; CHUVASHOVA, IG; GAITKO, OM; BARANCHIKOV, AE; ORLOVSKII, YV; OSIKO, VV; TRET'YAKOV, YD.
MICROWAVE SYNTHESIS OF MONODISPERSE LUMINESCENT Y2-X EU (X) O-3 POWDERS WITH SPHERICAL PARTICLES OF PREDETERMINED SIZE
DOKLADY CHEMISTRY 435, 289-293 (2010)
92. 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)
93. SULC, J; JELINKOVA, H; DOROSHENKO, ME; BASIEV, TT; OSIKO, VV; BADIKOV, VV; BADIKOV, DV.
DYSPROSIUM-DOPED PBGA2S4 LASER EXCITED BY DIODE-PUMPED ND:YAG LASER
OPTICS LETTERS 35(18), 3051-3053 (2010)
94. DEMIDENKO, AA; GARIBIN, EA; GAIN, SD; GUSEV, YI; FEDOROV, PP; MIRONOV, IA; MICHRIN, SB; OSIKO, VV; RODNYI, PA; SELIVERSTOV, DM; SMIRNOV, AN.
SCINTILLATION PARAMETERS OF BAF2 AND BAF2:CE3+ CERAMICS
OPTICAL MATERIALS 32(10), 1291-1293 (2010)
95. 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)
96. 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)
97. 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)
98. 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)
99. 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)
100. 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 CR2+:ZNMGSE AND FE2+:ZNSE CRYSTALS
LASER PHYSICS LETTERS 7(1), 38-45 (2010)
101. BASIEV, TT; DOROSHENKO, ME; OSIKO, VV; BADIKOV, VV; BADIKOV, DV; PANYUTIN, VL; SHEVYRDYAEVA, GS.
QUALITATIVE IMPROVEMENT IN THE LASING PERFORMANCE OF PBGA2S4:DY3+ CRYSTALS THROUGH NA+ DOPING
QUANTUM ELECTRONICS 40(7), 596-598 (2010)
102. 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 SCATTERINGIN BAWO4 CRYSTAL
QUANTUM ELECTRONICS 40(8), 710-715 (2010)
103. 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)
104. 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)
105. 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 CAF2 NANOCERAMICS
QUANTUM ELECTRONICS 39(10), 943-947 (2009)

106. BASIEV, TT; BAUMER, VN; GOROBETS, YN; DOROSHENKO, ME; KOSMYNA, MB; NAZARENKO, BP; OSIKO, VV; PUZIKOV, VM; SHEKHOVTSOV, AN.
PECULIARITIES OF THE GROWTH OF PBWO4:ND3+ AND PBMOO4:ND3+ SINGLE CRYSTALS
CRYSTALLOGRAPHY REPORTS 54(4), 697-701 (2009)

107. 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)

108. 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)

109. 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)

110. OSIKO, VV.
EXTRA-STRONG WEAR-RESISTANT MATERIALS BASED ON NANOSTRUCTURED CRYSTALS OF PARTIALLY STABILIZED ZIRCONIUM DIOXIDE
MENDELEEV COMMUNICATIONS 19(3), 117-122 (2009)

111. 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)

112. 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)

113. BASIEV, TT; KARASIK, AY; OSIKO, VV; PAPASHVILI, AG; CHUNAEV, 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)

114. 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)

115. 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)

116. 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)

117. 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:CR2+ - A NEW ACTIVE MEDIUM FOR LASERS OF MIDDLE IR
FUNCTIONAL MATERIALS 16(3), 329 (2009)

118. IVLEVA, LI; VORONINA, IS; BEREZOVSKAYA, LY; LYKOV, PA; OSIKO, VV; ISKHAKOVA, LD.
GROWTH AND PROPERTIES OF ZNMOO4 SINGLE CRYSTALS
CRYSTALLOGRAPHY REPORTS 53(6), 1087-1090 (2008)

119. 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)

120. BATYGOV, SK; BOLYASNIKOVA, LS; DEMIDENKO, VA; GARIBIN, EM; DOROSHENKO, ME; DUKEL'SKII, KV; LUGININA, AA; MIRONOV, IA; OSIKO, VV; FEDOROV, PP.

BAF2 : CE3+ SCINTILLATION CERAMICS
DOKLADY PHYSICS 53(9), 485-488 (2008)

121. POPOV, PA; FEDOROV, PP; KONYUSHKIN, VA; NAKLADOV, AN; KUZNETSOV, SV; OSIKO, VV; BASIEV, TT.
THERMAL CONDUCTIVITY OF SINGLE CRYSTALS OF SR1-XYBXF2+X SOLID SOLUTION
DOKLADY PHYSICS 53(8), 413-415 (2008)

122. 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)

123. POPOV, PA; FEDOROV, PP; KUZNETSOV, SV; KONYUSHKIN, VA; OSIKO, VV; BASIEV, TT.
THERMAL CONDUCTIVITY OF SINGLE CRYSTALS OF BA(1-X)YB(X)F(2+X) SOLID SOLUTION
DOKLADY PHYSICS 53(7), 353-355 (2008)

124. 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)

125. 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)

126. POPOV, PA; FEDOROV, PP; KUZNETSOV, SV; KONYUSHKIN, VA; OSIKO, VV; BASIEV, TT.
THERMAL CONDUCTIVITY OF SINGLE CRYSTALS OF CA1-XYBXF2+X SOLID SOLUTIONS
DOKLADY PHYSICS 53(4), 198-200 (2008)

127. GALAGAN, BI; DMITRUK, LN; MOISEEVA, LV; OSIKO, VV.
LUMINESCENCE OF ER3+ IONS IN MELTS BASED ON IODIDE SALTS
DOKLADY PHYSICS 53(4), 179-181 (2008)

128. BASIEV, TT; DOROSHENKO, ME; FEDOROV, PP; KONYUSHKIN, VA; KUZNETSOV, SV; OSIKO, VV; AKCHURIN, MS.
EFFICIENT LASER BASED ON CAF2-SRF2-YBF3 NANOCERAMICS
OPTICS LETTERS 33(5), 521-523 (2008)

129. 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)

130. 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)

131. 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)

132. BORIK, MA; VISHNYAKOVA, MA; VOITSITSKII, VP; KULEBYAKIN, AV; LOMONOVA, EE; MYZINA, VA; OSIKO, VV; PANOV, VA.
PREPARATION AND PROPERTIES OF Y2O3 PARTIALLY STABILIZED ZRO2 CRYSTALS
INORGANIC MATERIALS 43(11), 1223-1229 (2007)

133. BASIEV, TT; VASIL'EV, SV; DOROSHENKO, ME; KONYUSHKIN, VA; KUMETSOV, SV; OSIKO, VV; FEDOROV, PP.
EFFICIENT LASING IN DIODE-PUMPED YB3+: CAF2-SRF2 SOLID-SOLUTION SINGLE CRYSTALS
QUANTUM ELECTRONICS 37(10), 934-937 (2007)

134. GALAGAN, BI; DENKER, BI; OSIKO, VV; SVERCHKOV, SE.
EFFICIENCY OF POPULATION OF THE I-4(13/2) LEVEL OF THE ER3+ 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)

135. SULC, J; JELINKOVA, H; BASIEV, TT; DOROSCHENKO, ME; IVLEVA, LI; OSIKO, VV; ZVEREV, PG.
ND : SRWO4 AND ND : BAWO4 RAMAN LASERS
OPTICAL MATERIALS 30(1), 195-197 (2007)

136. 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)

137. IVLEVA, LI; VORONINA, IS; LYKOV, PA; BEREZOVSKAYA, LY; OSIKO, VV.
GROWTH OF OPTICALLY HOMOGENEOUS BAWO4 SINGLE CRYSTALS FOR RAMAN LASERS
JOURNAL OF CRYSTAL GROWTH 304(1), 108-113 (2007)

138. 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)

139. 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 ER3+
GLASS PHYSICS AND CHEMISTRY 33(2), 136-139 (2007)

140. 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)

141. DENKER, B; GALAGAN, B; OSIKO, V; SVERCHKOV, S; BALBASHOV, AM; HELLSTROM, JE; PASISKEVICIUS, V; LAURELL, F.
YB3+, ER3+: YAG AT HIGH TEMPERATURES: ENERGY TRANSFER AND SPECTROSCOPIC PROPERTIES
OPTICS COMMUNICATIONS 271(1), 142-147 (2007)

142. 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)

143. KUZNETSOV, SV; YAROTSKAYA, IV; FEDOROV, PP; VORONOV, VV; LAVRISHCHEV, SV; BASIEV, TT; OSIKO, VV.
PREPARATION OF NANOPOWDERED M1-XRXF2+X (M = CA, SR, BA; R = CE, ND, ER, YB) SOLID SOLUTIONS
RUSSIAN JOURNAL OF INORGANIC CHEMISTRY 52(3), 315-320 (2007)

144. 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)

145. 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)

146. POPOV, PA; DUKEL'SKII, KV; MIRONOV, IA; SMIRNOV, AN; SMOLYANSKII, PL; FEDOROV, PP; OSIKO, VV; BASIEV, TT.
THERMAL CONDUCTIVITY OF CAF2 OPTICAL CERAMIC
DOKLADY PHYSICS 52(1), 7-9 (2007)

147. 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 CAF2 SINGLE CRYSTAL AND OPTICAL CERAMICSS
QUANTUM ELECTRONICS 37(1), 27-28 (2007)

148. 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)

149. 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)

150. 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)

151. BASIEV, TT; DOROSHENKO, ME; IVLEVA, LI; OSIKO, VV; KOSMYNA, MB; KOMAR, VK; SULC, J; JELINKOVA, H.
LASING PROPERTIES OF SELECTIVELY PUMPED RAMAN-ACTIVE ND3+-DOPED MOLYBDATE AND TUNGSTATE CRYSTALS
QUANTUM ELECTRONICS 36(8), 720-726 (2006)

152. 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 ER3+: SRF2 AND ER3+: CAF2 CRYSTALS
QUANTUM ELECTRONICS 36(7), 591-594 (2006)

153. GALAGAN, BI; DENKER, BI; OSIKO, VV; SVERCHKOV, SE.
SPECTRAL AND KINETIC PROPERTIES OF ER3+, YB3+ : YB3AL5O12 CRYSTALS AT HIGH TEMPERATURES
QUANTUM ELECTRONICS 36(7), 595-600 (2006)

154. VORON'KO, YK; LOMONOVA, EE; OSIKO, VV; SOBOL', AA; USHAKOV, SN; SHUKSHIN, VE.
ACTIVE LASER MEDIA BASED ON FIANITE CRYSTALS
QUANTUM ELECTRONICS 36(7), 601-608 (2006)

155. 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)

156. 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 YB3+-DOPED GLASS FIBRE CORE
QUANTUM ELECTRONICS 36(3), 189-191 (2006)

157. 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 BAWO4 CRYSTAL UNDER 1.9 AND 1.56 MU M PUMPING
LASER PHYSICS LETTERS 3(1), 17-20 (2006)

158. BASIEV, TT; VASSILIEV, SV; DOROSHENKO, ME; OSIKO, VV; PUZIKOV, VM; KOSMYNA, MB.
LASER AND SELF-RAMAN-LASER OSCILLATIONS OF PBMOO4 : ND3+ CRYSTAL UNDER LASER DIODE PUMPING
OPTICS LETTERS 31(1), 65-67 (2006)

159. 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)

160. 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)

161. VINOGRADOVA, NN; GALAGAN, BI; DMITRUK, LN; MOISEEVA, LV; OSIKO, VV; SVIRIDOVA, EE; BREKHOVSKIKH, MN; FEDOROV, VA.
GROWTH OF RARE-EARTH-DOPED K2LACL5, K2BACL4, AND K2SRCL4 SINGLE CRYSTALS
INORGANIC MATERIALS 41(6), 654-657 (2005)

162. 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)

163. 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)

164. 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)

165. 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)

166. 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)

167. 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)

168. BASIEV, TT; DANILEIKO, YK; DOROSHENKO, ME; FEDIN, AV; GAVRILOV, AV; OSIKO, VV; SMETANIN, SN.
HIGH-ENERGY BAWO4 RAMAN LASER PUMPED BY A SELF-PHASE-CONJUP-ATE ND : GGG LASER
LASER PHYSICS 14(7), 917-921 (2004)

169. 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)

170. 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)

171. 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 PBCL2 : RE
OPTICAL MATERIALS 25(3), 295-299 (2004)

172. 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)

173. GRAHAM, K; FEDOROV, VV; MIROV, SB; DOROSHENKO, ME; BASIEV, TT; ORLOVSKII, YV; OSIKO, VV; BADIKOV, VV; PANYUTIN, VL.
PULSED MID-IR CR2+ : ZNS AND CR2+ : ZNSE LASERS PUMPED BY RAMAN-SHIFTED Q-SWITCHED NEODYMIUM LASERS
QUANTUM ELECTRONICS 34(1), 8-14 (2004)

174. 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)

175. BASIEV, TT; VASSILIEV, SV; DOROSHENKO, ME; OSIKO, VV; PUZIKOV, VM; KOSMYNA, MB.
LASER AND SELF-RAMAN-LASER OSCILLATIONS OF PBMOO4:ND3+CRYSTAL UNDER LASER DIODE PUMPING
OPTICS LETTERS 31(1), 65 (2004)

176. 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)

177. 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)

178. 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)

179. 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)

180. 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)

181. 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)

182. 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)

183. 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 CAF2 : ND3+
JOURNAL OF LUMINESCENCE 99(3), 223-236 (2002)

184. 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)

185. 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)

186. 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-MU M LASING
LASER PHYSICS 12(5), 859-877 (2002)

187. DENKER, BI; GALAGAN, BI; OSIKO, VV; SVERCHKOV, SE.
MATERIALS AND COMPONENTS FOR MINIATURE DIODE-PUMPED 1.5 MU M ERBIUM GLASS LASERS
LASER PHYSICS 12(4), 697-701 (2002)

188. IVLEVA, LI; BOGODAEV, NV; LYKOV, PA; OSIKO, VV; POLOZKOV, NM.
PHASE CONJUGATION IN SBN CRYSTALS
LASER PHYSICS 12(4), 702-706 (2002)

189. BASIEV, TT; ZHARIKOV, EV; OSIKO, VV.
CRYSTALS FOR PHOTONICS
CRYSTALLOGRAPHY REPORTS 47, S15-S26 (2002)

190. 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)

191. 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)

192. 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)

193. BASIEV, TT; FEDIN, AV; OSIKO, VV; RULEV, AV.
EFFICIENT ND : GGG LASER WITH SELF-PHASE CONJUGATION
LASER PHYSICS 11(7), 807-809 (2001)

194. 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)

195. BASIEV, TT; DOROSHENKO, ME; OSIKO, VV; PROKHOROV, AM.
HIGHLY EFFICIENT COOPERATIVE ENERGY TRANSFER FROM HO3+ AND TM3+ IONS TO CE3+ IONS IN CRYSTALS
JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS 93(6), 1178-1183 (2001)

196. 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 BAF2 SCINTILLATION CRYSTALS
ATOMIC ENERGY 90(1), 55-62 (2001)

197. 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 CO2+: MGAL2O4 AS A SATURABLE ABSORBER
APPLIED OPTICS 39(33), 6188-6192 (2000)

198. 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)

199. 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 CEF3 SCINTILLATING CRYSTALS
INSTRUMENTS AND EXPERIMENTAL TECHNIQUES 43(1), 31-35 (2000)

200. BASIEV, TT; DOROSHENKO, ME; OSIKO, VV.
COOPERATIVE NONRADIATIVE CROSS-RELAXATION IN CRYSTALS OF LA(1-X)CEXF3 SOLID SOLUTIONS
JETP LETTERS 71(1), 8-11 (2000)

201. 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)

202. 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)

203. ORLOVSKII, YV; BASIEV, TT; OSIKO, V; GROSS, H; HEBER, J.
FLUORESCENCE LINE NARROWING (FLN) AND SITE-SELECTIVE FLUORESCENCE DECAY OF ND3+ CENTERS IN CAF2
JOURNAL OF LUMINESCENCE 82(3), 251-258 (1999)

204. 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)

205. 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)

206. 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)

207. GALAGAN, BI; GODOVIKOVA, EA; DENKER, BI; MEIL'MAN, ML; OSIKO, VV; SVERCHKOV, SE.
EFFICIENT BLEACHABLE FILTER BASED ON CO2+: MGAL2O4 CRYSTALS FOR Q-SWITCHING OF LAMBDA=1.54 MU M ERBIUM GLASS LASER
QUANTUM ELECTRONICS 29(3), 189-190 (1999)

208. SEVAST'YANOV, BK; OKHRIMCHUK, AG; NABATOV, VV; MARTYSHEV, YN; BASIEV, TT; DOROSHENKO, ME; OSIKO, VV; PAPASHVILI, AG.
EXCITED-STATE ABSORPTION SPECTROSCOPY OF ND3+: SRF2 CRYSTALS IN THE 1280-1320 NM SPECTRAL WAVELENGTH RANGE
QUANTUM ELECTRONICS 29(2), 117-121 (1999)

209. 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)

210. DENKER, B; GALAGAN, B; GODOVIKOVA, E; MEILMAN, M; OSIKO, V; SVERCHKOV, S; KERTESZ, I.
THE EFFICIENT SATURABLE ABSORBER FOR 1.54 MU M ER GLASS LASERS.
ADVANCED SOLID-STATE LASERS 26, 618-620 (1999)

211. 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)

212. 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)

213. 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)

214. 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)

215. UMYSKOV, AF; ZAVARTSEV, YD; ZAGUMENNYI, AI; OSIKO, VV; STUDENIKIN, PA.
EFFICIENT 3-MU M YSGG:CR3+, YB3+, HO3+ CRYSTAL LASER.
KVANTOVAYA ELEKTRONIKA 23(9), 791-792 (1996) [QUANTUM ELECTRONICS 26(9), 771 (1996)]

216. 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:SRF2, ND:LA:SRF2, AND ND:SR:LAF3 LASER CRYSTALS
LASER PHYSICS 6(3), 448-455 (1996)

217. ZAVARTSEV, YD; ZAGUMENNYI, AI; OSIKO, VV; STUDENIKIN, PA; UMYSKOV, AF.
CRYSTALS OF CR3+:YB3+:LN(3+):YSGG AS ACTIVE MEDIA OF SOLID-STATE LASERS.
KVANTOVAYA ELEKTRONIKA 23(5), 433-437 (1996) [QUANTUM ELECTRONICS 26(5), 423 (1996)]

218. GALAGAN, BI; DENKER, BI; DMITRUK, LN; MOTSARTOV, VV; OSIKO, VV; SVERCHKOV, SE.
GLASSES FOR PRASEODYMIUM LASER AMPLIFIERS SENSITISED WITH NEODYMIUM AND YTTERBIUM.
KVANTOVAYA ELEKTRONIKA 23(2), 103-108 (1996)[QUANTUM ELECTRONICS 26(2), 99 (1996)]

219. GALAGAN, BI; DENKER, BI; MOTSARTOV, VV; OSIKO, VV; SVERCHKOV, SE.
ERBIUM-SENSITISED GLASSES FOR PRASEODYMIUM FIBRE LASER AMPLIFIERS OPERATING AT LAMBDA=1.3 MU M.
KVANTOVAYA ELEKTRONIKA 23(2), 109-111 (1996)

220. GALAGAN, B.I.; DENKER, B.I.; DMITRUK, L.N.; UMYSKOV, A.F.; ZAVARTSEV, YU.D.; ZAGUMENNYI, A.I.; OSIKO, V.V.; STUDENIKIN, P.A..
CR3+:YB3+:HO3+:YSGG CRYSTAL LASER WITH A CONTINUOUSLY TUNABLE EMISSION WAVELENGTH IN THE RANGE 2.84-3.05 MUM
QUANTUM ELECTRONICS 26(7), 563 (1996)

221. 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)

222. KUZMINOV, YS; OSIKO, VV.
NONSTOICHIOMETRY IN LITHIUM-NIOBATE CRYSTALS
KRISTALLOGRAFIYA 39(3), 530-535 (1994) [CRYSTALLOGRAPHY REPORTS 39(3), 471 (1994)]

223. 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 ND2-XCEXCUO4-DELTA
PHYSICA C 223(1-2), 1-13 (1994)

224. VORONKO, YK; OSIKO, AV; OSIKO, VV; SOBOL, AA; USHAKOV, SN; TSYMBAL, LI.
MOBILITY OF INTERSTITIAL FLUORINE BOUND TO TR3+ ION ACTIVATOR CENTERS IN THE FLUORITE STRUCTURE
FIZIKA TVERDOGO TELA 36(3), 748-753 (1994)

225. 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)

226. 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)

227. MAKAROVA, IP; MOLCHANOV, VN; TAMAZYAN, RA; SIMONOV, VI; GAMAYUNOV, KV; IVANOV, AL; OSIKO, VV.
REVISION OF ATOMIC-STRUCTURE OF ND2CUO4 MONOCRYSTALS
KRISTALLOGRAFIYA 38(4), 24-32 (1993)

228. DOROSHENKO, ME; OSIKO, VV; SIGACHEV, VB; TIMOSHECHKIN, MI.
EFFICIENT OSCILLATION OF LASER-RADIATION NEAR 1.4 MU-M WAVELENGTH IN GD3GA5O12CR, CE, ND CRYSTAL
KVANTOVAYA ELEKTRONIKA 20(6), 569-573 (1993) [QUANTUM ELECTRONICS 23(6), 490 (1993)]

229. 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)

230. ZAVARTSEV, YD; OSIKO, VV; SEMENKOV, SG; STUDENIKIN, PA; UMYSKOV, AF.
CASCADE LASING ON HO3+ IONS IN CR3+YB3+HO3+YSGG CRYSTAL

KVANTOVAYA ELEKTRONIKA 20(4), 366-370 (1993)[QUANTUM ELECTRONICS 23(6), 494 (1993)]

231. 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)

232. KUZMINOV, YU.S.; OSIKO, V.V..
NONSTOICHIOMETRIC COMPOSITION OF LITHIUM NIOBATE CRYSTAL
FERROELECTRICS 142(1-2), 105 (1993)

233. ZAVARTSEV, Y.D.; OSIKO, V.V.; SEMENKOV, S.G.; STUDENIKIN, P.A.; UMYSKOV, A.F..
CASCADE LASER OSCILLATION DUE TO HO3+IONS IN A (CR, YB, HO):YSGG YTTRIUM-SCANDIUM-GALLIUM-GARNET CRYSTAL, KVANTOVAYA ELEKTRON. 20, 366 (1993) [QUANTUM ELECTRONICS 23(4), 312 (1993)]

234. DENISOV, AL; ZAGUMENNYI, AI; LUTTS, GB; OSIKO, VV; SEMENKOV, SG; UMYSKOV, AF.
YB3SC2GA3O12CR3+,HO3+ CRYSTAL - A PROMISING MEDIUM FOR LASING ON HO3+ IONS CASCADE SCHEME
KVANTOVAYA ELEKTRONIKA 19(9), 842-844 (1992)

235. DOROSHENKO, ME; OSIKO, VV; SIGACHEV, VB; TIMOSHECHKIN, MI.
LASER PROPERTIES OF THE ND AND CR CO-DOPED GA-GD GARNET CRYSTAL ON THE TRANSITION 4F3/2-4I13/2 (LAMBDA=1,33 M)
IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA 56(8), 147-152 (1992)

236. 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)

237. VORONKO, YK; IVLEVA, LI; KUDRYAVTSEV, AB; OSIKO, VV; SOBOL, AA.
RAMAN-SCATTERING SPECTRUM OF CRYSTALLINE ALPHA-BAB2O4
INORGANIC MATERIALS 28(8), 1357-1360 (1992)

238. 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)

239. 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)

240. 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)

241. 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)

242. BASIEV, TT; DERGACHEV, AY; ORLOVSKII, YV; OSIKO, VV; PROKHOROV, AM.
INTERCENTER MULTIPHONON NONRADIATIVE RELAXATION FROM HIGH-LYING LEVELS OF ND3+ ION IN OXIDE LASER CRYSTALS
IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA 56(2), 113-120 (1992)

243. BASIEV, TT; ESKOV, NA; KARASIK, AY; OSIKO, VV; SOBOL, AA; USHAKOV, SN; HELBIG, M.
DISORDERED GARNETS CA3(NB, GA)5O12-ND3+ - PROSPECTIVE CRYSTALS FOR POWERFUL ULTRASHORT-PULSE GENERATION
OPTICS LETTERS 17(3), 201-203 (1992)

244. GORBUNOV, PV; DENKER, BI; ILICHEV, 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)

245. 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)

246. DENKER, BI; MAKSIMOVA, GV; OSIKO, VV; SVERCHKOV, SE; SVERCHKOV, YE.
EMISSION STUDIES OF NEW ERBIUM LASER GLASSES
KVANTOVAYA ELEKTRONIKA 18(9), 1063-1065 (1991) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 21(9), 964 (1991)]
247. 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)
248. 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) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 21(7), 724 (1991)]
249. 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) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 21(7), 774 (1991)]
250. 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)
251. 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)
252. DOROSHENKO, ME; OSIKO, VV; SIGACHEV, VB; TIMOSHECHKIN, MI.
LASING PROPERTIES OF A NEODYMIUM-DOPED GADOLINIUM-GALLIUM GARNET CRYSTAL DUE TO THE 4F3/2-4I13/2 TRANSITION (LAMBDA=1.33-MU-M)
KVANTOVAYA ELEKTRONIKA 18(3), 298-300 (1991) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 21(3), 266 (1991)]
253. 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)
254. OSIKO, VV; SIGACHEV, VB; STRELOV, VI; TIMOSHECHKIN, MI.
A LASER UTILIZING AN ERBIUM-GADOLINIUM-GALLIUM GARNET CRYSTAL
KVANTOVAYA ELEKTRONIKA 18(2), 179-181 (1991) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 21(2), 159 (1991)]
255. 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)
256. GAMAYUNOV, K.V.; IVANOV, A.L.; OSIKO, V.V.; TATARINTSEV, V.M..
GROWING SINGLE CRYSTALS IN A ND2O3-CEO2-CUO SYSTEM BY THE SPONTANEOUS CRYSTALLIZATION METHOD
SUPERCONDUCTIVITY: PHYSICS, CHEMISTRY, TECHNOLOGY 4(12), 2306 (1991)
257. 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 LA1.92SR0.08CUO4 SINGLE CRYSTALS
SUPERCONDUCTIVITY: PHYSICS, CHEMISTRY, TECHNOLOGY 4(6), 1017 (1991)
258. GAMAYUNOV, KV; IVANOV, AL; OSIKO, VV; TATARINTSEV, VM; CHERNOV, AI.
SINGLE CRYSTALLINE WHISKERS OF LA1-XSRXCUO3-Y
SOLID STATE COMMUNICATIONS 76(5), 725-726 (1990)
259. 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) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 20(10), 1189 (1990)]
260. 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) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 20(8), 877 (1990)]

261. 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)3AL5O12-CR-3+ CRYSTALS AND THE LASER ACTION AT THE WAVELENGTH OF 2.7 MU-M
KVANTOVAYA ELEKTRONIKA 17(8), 1007-1009 (1990) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 20(8), 923 (1990)]

262. 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)

263. SIMONOV, VI; MURADYAN, LA; TAMAZYAN, RA; OSIKO, VV; TATARINTSEV, VM; GAMAYUMOV, K.
DISTRIBUTION OF SR ATOMS IN SINGLE-CRYSTALS OF (LA1-XSRX)2CUO4-DELTA AND THE SUPERCONDUCTING TRANSITION-TEMPERATURE
PHYSICA C 169(1-2), 123-132 (1990)

264. 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 ZRO2-Y2O3 SOLID-SOLUTIONS ACTIVATED BY CHROMIUM AND NEODYMIUM
INORGANIC MATERIALS 26(6), 1061-1065 (1990)

265. 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)

266. BORIK, MA; GORBUNOV, PV; DANILEIKO, YK; DENKER, BI; IVANOV, AD; ILICHEV, NN; LARIKOV, AV; LEBEDEVA, TP; MAKSIMOVA, GV; MOTSARTOV, 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)

267. 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)

268. VESELAGO, VG; GAMAJUNOV, KV; ZORYA, VI; IVANOV, AL; OSIKO, VV; TATARINTSEV, VM; FRADKOV, VA; CHERNIKOV, MA; CHERNOV, AI.
STRONTIUM CONTENT OF LA2-XSRXCUO4-DELTA SINGLE-CRYSTALS GROWN FROM CUO FLUX
SUPERCONDUCTOR SCIENCE & TECHNOLOGY 3(3), 121-123 (1990)

269. 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)

270. 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)

271. 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)

272. DENKER, BI; VORONOV, VV; IVLEVA, LI; OSIKO, VV; PASHININ, PP; POLOZKOV, NM; SVERCHKOV, IE; JAKIMENKO, VN.
PLEOCHROISM AND POLARIZED LUMINESCENCE OF MG2SIO4-CR CRYSTALS
DOKLADY AKADEMII NAUK SSSR 310(1), 75-77 (1990)

273. 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 ER3 AND CR3+ AS A NEW ACTIVE

MEDIUM FOR 3-MUM LASERS
SOVIET JOURNAL OF QUANTUM ELECTRONICS 20(6), 643 (1990)

274. BORIK, M; CHERNIKOV, M; IVANO, P; OSIKO, V; STEPANKIN, V; VESELAGO, V.
SHIELDING ANOMALIES IN GRANULAR OXIDE SUPERCONDUCTORS
PHYSICA C 162, 727-728 (1989)

275. 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) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 19(12), 1555 (1989)]

276. 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)

277. 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)

278. 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) [OPTICS AND SPECTROSCOPY 67(4), 493 (1989)]

279. 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) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 19(9), 1147 (1989)]

280. 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) [OPTICS AND SPECTROSCOPY 67(3), 360 (1989)]

281. 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)

282. 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)

283. BADALYAN, AG; BARANOV, PG; ALEKSANDROV, VI; BORIK, MA; OSIKO, VV.
MAGNETIC-RESONANCE AND RELAXATION IN GDBA2CU3OX SINGLE-CRYSTALS BELOW TC
JETP LETTERS 49(11), 697-701 (1989)

284. BLISTANOV, AA; GALAGAN, BI; DENKER, BI; IVLEVA, LI; OSIKO, VV; POLOZKOV, NM; SVERCHKOV, YE.
SPECTRAL-LASING PROPERTIES OF CAMOO4-ND-3+ SINGLE-CRYSTALS
KVANTOVAYA ELEKTRONIKA 16(6), 1152-1154 (1989) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 19(6), 747 (1989)]

285. 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) [RUSSIAN JOURNAL OF INORGANIC CHEMISTRY 34(6), 792 (1989)]

286. 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)

287. 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) [SOVIET PHYSICS - DOKLADY 34(7), 650 (1989)]

288. 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)

289. 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)

290. 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) [SOVIET PHYSICS - DOKLADY 34(10), 930 (1989)]

291. 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)

292. 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)

293. BASIEV, TT; VORONOV, VV; GAMAIUNOV, KV; OSIKO, VV; SVISTOVA, EG; TATARINTSEV, VM; CHERNOV, AI.
SPECTROSCOPIC PROPERTIES OF RAPIDLY QUENCHED TUNGSTATES ACTIVATED WITH EU3+ IONS
DOKLADY AKADEMII NAUK SSSR 304(2), 370-372 (1989)

294. 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)

295. 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)

296. 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)

297. 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)

298. KUZMICHEVA, GM; KOZLIKIN, SN; ZHARIKOV, EV; KALITIN, SP; OSIKO, VV.
POINT-DEFECTS IN GADOLINIUM-GALLIUM GARNET
ZHURNAL NEORGANICHESKOI KHIMII 33(9), 2200-2204 (1988) [RUSSIAN JOURNAL OF INORGANIC CHEMISTRY 33(9), 1256 (1988)]

299. 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)

300. BASIEV, TT; MIROV, SB; OSIKO, VV.
ROOM-TEMPERATURE COLOR CENTER LASERS
IEEE JOURNAL OF QUANTUM ELECTRONICS 24(6), 1052-1069 (1988)

301. 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)

302. 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)

303. 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) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 18(3), 307 (1988)]

304. GAMAYUNOV, KV; OSIKO, VV; TATARINTSEV, VM.
ULTRAFAST QUENCHING OF OXIDE MATERIALS
INORGANIC MATERIALS 24(3), 287-298 (1988)

305. 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)
306. 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) [SOVIET PHYSICS - SOLID STATE 30(2), 291 (1988)]
307. 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)
308. 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)[SOVIET JOURNAL OF QUANTUM ELECTRONICS 18(2), 198 (1988)]
309. 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)
310. 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)
311. 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)
312. ASHUROV, M.K.; NASYROV, I.N.; OSIKO, V.V.; KHABIBULLAEV, P.K..
BRIGHTENING IN THE UV REGION OF GSGG CRYSTALS AFTER Γ-IRRADIATION
J. APPL. SPECTROSC , 48 (1988)
313. 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)
314. 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)
315. 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)
316. 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) [SOVIET PHYSICS - SOLID STATE 29(12), 2123 (1987)]
317. 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)
318. 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) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 17(10), 1289 (1987)]
319. 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)
320. OSIKO, VV.
ACTIVE MEDIA OF SOLID-STATE LASERS
IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA 51(8), 1285-1294 (1987)

321. BASIEV, TT; DERGACHEV, AY; ZVEREV, PG; KONYUSHKIN, VA; LYSOI, BG; MIROV, SB; OSIKO, VV.
PASSIVE MODULATION OF THE EFFICIENCY OF A CONTINUOUS (YAG-ND3+)-LASER BY LIF-F2-CRYSTALS
IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA 51(8), 1440-1446 (1987)

322. VORONKO, YK; ZUFAROV, MA; OSIKO, VV; SOBOL, AA.
NEW ASPECTS OF PHASE FORMATION IN THE SYSTEMS HFO2-LN2O3
INORGANIC MATERIALS 23(6), 854-859 (1987)

323. 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) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 17(6), 724 (1987)]

324. BLINOV, AL; BORIK, MA; VORONOV, VV; GAMAYUNOV, KV; IVANOV, AV; OSIKO, VV; TATARINTSEV, VM; USTIN, AA.
CRYSTALLIZATION OF SAMPLES IN THE SYSTEM ND2O3-WO3 PREPARED WITH ULTRAHIGH COOLING RATES
INORGANIC MATERIALS 23(6), 860-863 (1987)

325. 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) [SOVIET PHYSICS - SOLID STATE 29(5), 771 (1987)]

326. 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)

327. 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)

328. ALEKSANDROV, VI; BATYGOV, SK; VISHNYAKOVA, MA; KALABUKHOVA, VF; LOMONOVA, EE; MYZINA, VA; OSIKO, VV.
INFLUENCE OF PR2O3 ON GROWTH OF ZRO2 CRYSTALS IN A MELT
INORGANIC MATERIALS 23(3), 387-390 (1987)

329. 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)

330. ASHUROV, MK; BATYGOV, SK; ERZIN, RA; OSIKO, VV; TATARINTSEV, VM; KHABIBULLAEV, PK.
COLOR-CENTER CREATION IN HFO2-BASED SINGLE-CRYSTALS AFTER GAMMA-IRRADIATION AND THERMAL-TREATMENT
DOKLADY AKADEMII NAUK SSSR 296(1), 121-123 (1987)

331. 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)

332. GAMAYUNOV, K.; MASLOVA, T.; OSIKO, V.; TATARINTSEV, V..
CRITICAL COOLING RATE OF OXIDE MELTS
IZV. AKAD. NAUK SSSR, NEORG. MATER 23, 264 (1987) [INORGANIC MATERIALS 23(2), 229-232 (1987)]

333. 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)

334. 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) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 16(10), 1404 (1986)]

335. VORONOV, VV; GAMAYUNOV, KV; OSIKO, VV; TATARINTSEV, VM.
ULTRAFAST QUENCHING OF ALLOYS IN THE SYSTEM MXOY-WO3 AND LINBO3
INORGANIC MATERIALS 22(8), 1169-1171 (1986)

336. GLUCHKOVA, VB; KOMAROV, AV; MARKOV, NI; OSIKO, VV; TATARINTSEV, VM; TIKHONOV, PA.
ELECTRICAL-PROPERTIES OF SINGLE-CRYSTALS OF SOLID-SOLUTIONS IN THE SYSTEM HFO2-M2O3 (M = SC, Y, RARE-EARTHS)
INORGANIC MATERIALS 22(7), 987-990 (1986)

337. 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) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 16(5), 635 (1986)]

338. BABUSHKIN, AV; VOROBEV, NS; ZHARIKOV, EV; KALITIN, SP; OSIKO, VV; PROKHOROV, AM; SERDYUCHENKO, YN; SHCHELEV, MY; SHCHERBAKOV, IA.
A PICOSECOND LASER UTILIZING THE GSGG-CR, ND CRYSTAL
KVANTOVAYA ELEKTRONIKA 13(3), 655-656 (1986) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 16(3), 428 (1986)]

339. 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 GSGG-CR3+, ND3+ CRYSTAL
KVANTOVAYA ELEKTRONIKA 13(2), 412-414 (1986) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 16(2), 269 (1986)]

340. ASHUROV, MK; NASYROV, IN; OSIKO, VV; KHABIBULLAEV, PK.
INVESTIGATION OF UV ABSORPTION IN GSGG-CR-3+ CRYSTALS
DOKLADY AKADEMII NAUK SSSR 289(2), 344-347 (1986) [SOVIET PHYSICS - DOKLADY 31(7), 564 (1986)]

341. IOFIS, NA; OSIKO, VV; PROKHOROV, AM; SHAMOV, AN.
SYNTHESIS OF REFRACTORY MATERIALS IN COLD CONTAINERS
VESTNIK AKADEMII NAUK SSSR (6), 31-36 (1986)

342. BELIANINA, RG; IEVLEVA, ZI; IOFIS, NA; OSIKO, VV; SARATOV, IM; TATARINTSEV, VM; SHIMKEVICH, AL; SHMATKO, BA.
MECHANICAL DURABILITY OF FIANIT BASED ON THE STABILIZED ZIRCONIA IN THE 300-1800-K RANGE
DOKLADY AKADEMII NAUK SSSR 287(3), 628-630 (1986)

343. 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)

344. GORASHCHENKO, NG; IVANOVSKAYA, VI; MAIER, AA; MARKOV, NI; MIFTYAKHETDINOVA, NR; MYZINA, VA; OSIKO, VV; TATARINTSEV, VM.
PROPERTIES OF SOLID-SOLUTION SINGLE-CRYSTALS IN HFO2-Y2O3, HFO2-RARE EARTHS 2O3 SYSTEMS
INORGANIC MATERIALS 21(9), 1323-1326 (1985)

345. 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(PO3)3 BY THE METHOD OF RAMAN-SCATTERING OF LIGHT
INORGANIC MATERIALS 21(5), 618-625 (1985)

346. 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)

347. 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) [SOVIET PHYSICS - DOKLADY 30(6), 490 (1985)]

348. 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)

349. 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)

350. 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)

351. 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)

352. 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) [SOVIET PHYSICS - DOKLADY 29(1), 50 (1984)]

353. 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) [SOVIET PHYSICS - SOLID STATE 26(5), 799 (1984)]

354. 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) [SOVIET PHYSICS - SOLID STATE 26(5), 922 (1984)]

355. ZHARIKOV, EV; LAPTEV, VV; MAIER, AA; OSIKO, VV.
COMPETITION OF CATIONS IN OCTAHEDRAL SITES OF GALLIUM GARNETS
INORGANIC MATERIALS 20(6), 857-862 (1984)

356. 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)

357. 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)

358. 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 CR3+ STATE IN A GADOLINIUM-SCANDIUM-GALLIC GARNET CRYSTAL
IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA 48(7), 1354-1358 (1984)

359. ASHUROV, MK; BASIEV, TT; BURSHTEIN, AI; VORONKOV, YK; OSIKO, VV.
DIFFUSIVE DELOCALIZATION OF ELECTRONIC EXCITATIONS THROUGH A DISORDERED SYSTEM OF CENTERS
JETP LETTERS 40(3), 841-844 (1984)

360. 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) [SOVIET PHYSICS - CRYSTALLOGRAPHY 29(3), 343 (1984)]

361. ZABOLOTNAYA, NV; OSIKO, VV; RANDOSHKIN, VV; SIGACHEV, VB; TIMOSHECHKIN, MI.
(BI,TM)3(FE,GA)5O12 FILMS WITH HIGH-SPEED MOVEMENT OF DOMAIN-WALLS
PISMA V ZHURNAL TEKHNICHESKOI FIZIKI 10(13), 788-792 (1984) [SOVIET TECHNICAL PHYSICS LETTERS 10(7), 331 (1984)]

362. OSIKO, VV; RANDOSHKIN, VV; SIGACHEV, VB; TIMOSHECHKIN, MI.
CONTROL REPTATION OF DOMAIN-WALLS IN FERRITE GARNET-FILMS
ZHURNAL TEKHNICHESKOI FIZIKI 54(12), 2423-2425 (1984) [SOVIET PHYSICS - TECHNICAL PHYSICS 29(12), 1433 (1984)]

363. 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 TEKHNICHESKOI FIZIKI 10(24), 1497-1500 (1984)

364. 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)

365. VORONOV, VV; OSIKO, AV; OSIKO, VV; PROKHOROV, AM.
QUASI-CRYSTALS
DOKLADY AKADEMII NAUK SSSR 276(4), 870-873 (1984)

366. 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) [SOVIET PHYSICS - DOKLADY 28(1), 26 (1983)]

367. 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)

368. 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)

369. 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) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 13(9), 1274 (1983)]

370. 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) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 13(10), 1306 (1983)]

371. 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) [SOVIET PHYSICS - JETP 57(3), 596 (1983)]

372. GLUSHKOVA, VB; MARKOV, NI; OSIKO, VV; TATARINTSEV, VM; TIKHONOV, PA.
FORMATION AND INVESTIGATION OF SINGLE-CRYSTALS OF SOLID-SOLUTIONS IN THE HFO2-Y2O3 SYSTEM
INORGANIC MATERIALS 19(10), 1494-1498 (1983)

373. OSIKO, VV.
CRUCIBLE-FREE METHODS OF GROWING-CRYSTALS FROM THE MELT
JOURNAL OF CRYSTAL GROWTH 65(1-3), 235-236 (1983)

374. 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)

375. 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)

376. ALEKSANDROV, V. I.; VISHNYAKOVA, M. A.; VORON'KO, YU. K.; KALABUKHOVA, V. F.; LOMONOVA, E. E.; MYZINA, V. A.; OSIKO, V. V..
GROWTH OF SRTIO3SINGLE CRYSTALS BY CZOCHRALSKI'S METHOD FROM A COLD CONTAINER
IZV. AKAD. NAUK SSSR, NEORG. MATER. 19, 104 (1983) [INORGANIC MATERIALS 19(1), 88-91 (1983)]

377. 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 {LA2ND0.3LU0.7}LU2GA3O12
SOVIET PHYSICS - SOLID STATE 25(4), 568 (1983)

378. OSIKO, VV; SHIMKEVICH, AL; SHMATKO, BA.
ELECTRONIC MODEL OF THE PHYANITES
DOKLADY AKADEMII NAUK SSSR 267(2), 351-354 (1982)

379. VORONKO, YK; OSIKO, VV; SHCHERBAKOV, IA.
LUMINESCENCE OF LASER CRYSTALS
IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA 46(5), 970-978 (1982)

380. 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)

381. 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) [SOVIET PHYSICS - CRYSTALLOGRAPHY 27(3), 374 (1982)]

382. 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) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 12(4), 421 (1982)]

383. BASIEV, TT; VORONKO, YK; MIROV, SB; OSIKO, VV; PROKHOROV, AM.
EFFICIENT PASSIVE Q-SWITCHES OF NEODYMIUM LASERS UTILIZING LIF-F-2- CRYSTALS
KVANTOVAYA ELEKTRONIKA 9(4), 837-839 (1982) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 12(4), 530 (1982)]

384. 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 Y3AL5O1I CRYSTAL
KVANTOVAYA ELEKTRONIKA 9(6), 1180-1185 (1982) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 12(6), 744 (1982)]

385. 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) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 12(8), 984 (1982)]

386. BASIEV, TT; VORONKO, YK; MIROV, SB; OSIKO, VV; PROKHOROV, AM; SOSKIN, MS; TARANENKO, VB.
EFFICIENT TUNABLE LASERS UTILIZING LIF-F2- CRYSTALS
KVANTOVAYA ELEKTRONIKA 9(8), 1741-1743 (1982) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 12(8), 1125 (1982)]

387. 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(F2-) CRYSTALS
KVANTOVAYA ELEKTRONIKA 9(9), 1842-1843 (1982) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 12(9), 1187 (1982)]

388. 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)

389. DENKER, BI; OSIKO, VV; PASHININ, PP; PROKHOROV, AM.
LASER GLASSES WITH HIGH-CONCENTRATION OF NEODYMIUM
VESTNIK AKADEMII NAUK SSSR (6), 75-81 (1982)

390. 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) [SOVIET PHYSICS - JETP 56(3), 519 (1982)]

391. BUZNYAKOVA, OK; IVLEVA, LI; KUZMINOV, YS; OSIKO, VV.
GROWTH AND INVESTIGATION OF CA3(VO4)2
INORGANIC MATERIALS 18(11), 1612-1615 (1982)

392. 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) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 12(7), 953 (1982)]

393. VETROGON, CI; DANILENKO, VK; KABACHENKO, VY; OSIKO, VV; PROKHOROV, AM; TERENTEVSKII, AN; TIMOSHECHKIN, MI.

CR-3+ ELECTRON-PARAMAGNETIC-RES SPECTRA IN YIG
FIZIKA TVERDOGO TELA 24(3), 771-775 (1982)

394. 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)

395. BASIEV, TT; VORONKO, YK; KIRPICHENKOVA, EO; MIROV, SB; OSIKO, VV; SOSKIN, MS; TARANENKO, VB.
A TUNABLE LASER UTILIZING LIF-F2(+) COLOR-CENTERS WITH A HOLOGRAPHIC SELECTOR
KVANTOVAYA ELEKTRONIKA 8(2), 419-421 (1981) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 11(2), 255 (1981)]

396. 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) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 11(7), 873 (1981)]

397. 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)

398. 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) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 11(7), 965 (1981)]

399. VORONKO, YK; ZUFAROV, MA; IGNATEV, BV; OSIKO, VV; LOMONOVA, EE; SOBOL, AA.
RAMAN LIGHT-SCATTERING IN ZRO2-GD2O3 AND ZRO2-EU2O3 SINGLE-CRYSTALS OF TETRAGONAL STRUCTURE
OPTIKA I SPEKTROSKOPIYA 51(4), 569-571 (1981)

400. 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)

401. 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) [SOV. PHYS. JETP 54, 45 (1981)]

402. 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)

403. AVANESOV, AG; LEBEDEV, VA; OSIKO, VV; POPOV, VV.
ELECTRICAL-PROPERTIES OF PHOSPHATE-GLASSES
INORGANIC MATERIALS 17(11), 1545-1547 (1981)

404. DOROSH, IR; KUZMINOV, YS; OSIKO, VV; TKACHENKO, NV.
CE-DOPING CONCENTRATION EFFECT ON HOLOGRAPHIC SENSITIVITY OF (SRXBA1-X)1-Y(NB2O6)Y CRYSTALS
FIZIKA TVERDOGO TELA 23(2), 609-611 (1981) [SOVIET PHYSICS - SOLID STATE 23(2), 345 (1981)]

405. 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 SM3+ IONS IN GLASS
OPTICS AND SPECTROSCOPY 51(1), 80 (1981)

406. 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)

407. VORONKO, YK; IGNATEV, BV; LOMONOVA, EE; OSIKO, VV; SOBOL, AA.
RAMAN-SCATTERING STUDY OF HIGH-TEMPERATURE PHASE-TRANSITIONS IN ZRO2 AND HFO2 SOLID-SOLUTIONS
FIZIKA TVERDOGO TELA 22(4), 1034-1038 (1980)

408. 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) [SOVIET PHYSICS - SOLID STATE 22(5), 805 (1980)]

409. IGNATEV, BV; KALABUKHOVA, VF; OSIKO, VV; SOBOL, AA.
CONCENTRATION-DEPENDENCE OF RAMAN LIGHT-SCATTERING SPECTRA IN (1-X)ZRO2-XHFO2 SOLID-SOLUTIONS
FIZIKA TVERDOGO TELA 22(5), 1524-1526 (1980)

410. OSIKO, VV; PROKHOROV, AM; SHCHERBAKOV, IA.
ACTIVE MEDIA OF SOLID LASERS
IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA 44(8), 1698-1715 (1980) [BULLETIN OF THE ACADEMY OF SCIENCES OF THE USSR, PHYSICAL SERIES 44(8), 115 (1980)]

411. VORONOV, VV; KUZMINOV, YS; OSIKO, VV; PROKHOROV, AM.
PHOTOELECTRIC AND PHOTOREFRACTIVE PROPERTIES OF A BARIUM-SODIUM NIOBATE FERROELECTRIC
KRISTALLOGRAFIYA 25(6), 1208-1215 (1980) [SOVIET PHYSICS - CRYSTALLOGRAPHY 25(6), 691 (1980)]

412. 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) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 10(5), 644 (1980)]

413. KUZMINOV, YS; OSIKO, VV; PROKHOROV, AM.
ELECTROOPTICAL AND NON-LINEAR OPTICAL-PROPERTIES OF OXYGEN-OCTAHEDRAL FERROELECTRICS
KVANTOVAYA ELEKTRONIKA 7(8), 1621-1653 (1980)

414. 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)

415. ZHILINSKAYA, EA; LAZUKIN, VN; CHEPELEVA, IV; OSIKO, VV.
ELECTRON-PARAMAGNETIC-RES INVESTIGATION OF STABILIZED ZRO2 SINGLE-CRYSTALS DOPED WITH CHROMIUM AND MANGANESE
PHYSICA STATUS SOLIDI B-BASIC RESEARCH 98(2), 419-425 (1980)

416. GLUSHKO, AA; OSIKO, VV; TIMOFEYEV, YP; SHCHERBAKOV, IA.
KINETICS OF POPULATION AND DECAY OF HIGHLY EXCITED-STATES IN TR3+ IONS UNDER CONDITIONS OF STRONG INCOHERENT INTERACTION IN THE INTERMEDIATE STATES
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 79(1), 194-206 (1980)

417. ALEKSANDROV, VI; BATYGOV, SK; KALABUKHOVA, VF; LAVRISHCHEV, SV; LOMONOVA, EE; MYZINA, VA; OSIKO, VV; TATARINTSEV, VM.
INFLUENCE OF SIO2 ON GROWTH AND PERFECTION OF STABILIZED ZRO2 SINGLE-CRYSTALS
INORGANIC MATERIALS 16(10), 1224-1227 (1980)

418. VETROGON, GI; DANILENKO, VI; KABANCHENKO, VY; OSIKO, VV; PROKHOROV, AM; TERENTEVSKII, AN; TIMOSHECHKIN, MI.
CR3+ EPR-SPECTRUM IN YTTRIUM-ALUMINIUM GARNET
FIZIKA TVERDOGO TELA 22(11), 3216-3221 (1980) [SOVIET PHYSICS - SOLID STATE 22(11), 1881 (1980)]

419. 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 ZRO2-Y2O3 SYSTEM
INORGANIC MATERIALS 16(1), 77-81 (1980)

420. GLUSHKO, AA; OSIKO, VV; TIMOFEYEV, YP; SHCHERBAKOV, IA.
EFFECT OF THE CRYSTALLINE LATTICE ON THE POPULATION OF HIGHLY EXCITED-STATES OF TR3+ IONS ON INFRARED EXCITATION
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 78(1), 53-61 (1980)

421. 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)

422. 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)

423. 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 LA2O3-AL2O3-SIO2 SYSTEM
SOVIET JOURNAL OF GLASS PHYSICS AND CHEMISTRY 6(2), 117 (1980)

424. AVANESOV, A.G.; BURSHTEIN, 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)

425. 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 F2+ COLOUR CENTRES IN LIF CRYSTAL WITH RECONSTRUCTED FREQUENCY
PIS'MA V ZHURNAL EKSPERIMENTAL'NOI I TEORETICHESKOI FIZIKI 31(5), 316 (1980) [JETP LETTERS 31(5), 291-294 (1980)]

426. 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)

427. ALEKSANDROV, VI; BELYANINA, RG; BLOKHIN, VA; IEVLEVA, ZI; OSIKO, VV; SHIMKEVICH, AL; SHMATKO, BA.
CHARACTER OF THE CONDUCTIVITY OF FIANITES AT 300-500-DEGREES-C
INORGANIC MATERIALS 15(9), 1273 (1979)

428. 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)

429. 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) [SOV. PHYS. JETP 77(5), 1771 (1979)]

430. AVANESOV, AG; VORONKO, YK; DENKER, BI; MAKSIMOVA, GV; OSIKO, VV; PROKHOROV, AM; SHCHERBAKOV, IA.
RADIATION ENERGY-TRANSFER FROM CR3+ IONS TO ND3+ IONS IN HIGH-CONCENTRATION NEODYMIUM-DOPED GLASSES
KVANTOVAYA ELEKTRONIKA 6(7), 1583 (1979) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 9(7), 935 (1979)]

431. 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) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 9(7), 937 (1979)]

432. 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)

433. BASIEV, T.T.; VORON'KO, YU.K.; MIROV, S.B.; OSIKO, V.V.; PROKHOROV, A.M..
KINETICS OF ACCUMULATION AND GENERATION OF F2+ CENTRES IN LIF(F2) CRYSTALS
PIS'MA V ZHURNAL EKSPERIMENTAL'NOI I TEORETICHESKOI FIZIKI 30(10), 661 (1979) [JETP LETTERS 30(10), 626 (1979)]

434. 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) [OPTICS AND SPECTROSCOPY 46(5), 510 (1979)]

435. 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)

436. VORONOV, VV; GULANYAN, EK; DOROSH, IR; KUZMINOV, YS; MIKAELYAN, 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) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 9(9), 1172 (1979)]

437. 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) [SOVIET PHYSICS - SOLID STATE 20(2), 305 (1978)]

438. 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)

439. 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 ER3+ ION IN CRYSTALS OF Y3AL5O12, GD3SC2AL3O12, Y3GA5O12, GD3GA5O12, CAF2
KVANTOVAYA ELEKTRONIKA 5(5), 1028 (1978) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 8(5), 588 (1978)]

440. BASIEV, TT; VORONKO, YK; KARASIK, AY; OSIKO, VV; SHCHERBAKOV, IA.
SPECTRAL MIGRATION OF ELECTRONIC EXCITATION ALONG ND3+ IONS IN CAF2-YF3 CRYSTALS ON SELECTIVE LASER EXCITATION
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 75(1), 66 (1978)

441. DENKER, BI; MAXIMOVA, GV; OSIKO, VV; PROKHOROV, AM; TANANAEV, IV.
HIGH-CONCENTRATED NEODYMIUM LASER GLASSES
DOKLADY AKADEMII NAUK SSSR 239(3), 573 (1978)

442. 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) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 8(4), 485 (1978)]

443. ESKOV, NA; OSIKO, VV; SOBOL, AA; TIMOSHECHKIN, MI; BUTAEVA, TI; CHAN, N; KAMINSKII, AA.
NEW LASER GARNET CA3GA2GE3O12-ND3+
INORGANIC MATERIALS 14(12), 1764 (1978)

444. KAMINSKII, AA; SARKISOV, SE; NGOC, T; DENKER, BI; OSIKO, VV; PROKHOROV, AM.
STIMULATED-EMISSION SPECTROSCOPY OF CONCENTRATED LITHIUM NEODYMIUM PHOSPHATE GLASSES IN 4F3/2-]4I11/2 AND 4F3/2-]4I13/2 TRANSITIONS
PHYSICA STATUS SOLIDI A-APPLIED RESEARCH 50(2), 745 (1978)

445. 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 GD3GA5O12-ND3+ SINGLE-CRYSTALS
PHYSICA STATUS SOLIDI A-APPLIED RESEARCH 49(1), 305 (1978)

446. 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)

447. ZHARIKOV, E.V.; ZHEKOV, V.I.; MURINA, T.M.; OSIKO, V.V.; TIMOSHECHKIN, M.I.; SHCHERBAKOV, I.A..
CROSS SECTION OF THE 4I11/2-4I13/2 LASER TRANSITION IN ER3+ IONS IN YTTRIUM-ERBIUM-ALUMINIUM GARNET CRYSTALS
SOVIET JOURNAL OF QUANTUM ELECTRONICS 7(1), 117 (1977)

448. 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 ND3+ ION LUMINESCENCE IN LA1-XNDXP5O14
SOVIET JOURNAL OF QUANTUM ELECTRONICS 7(2), 167 (1977)

449. MKH, ASHUROV; YUK, VORONKO; OSIKO, VV; SOBOL, AA; TIMOSHECHKIN, MI.
THE ANTISITE LUAIDEFECT-RELATED TRAP IN LU3AL5O12: CE SINGLE CRYSTAL
PHYS STATUS SOLIDI A 242, R119 (1977)

450. 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)

451. ALEKSANDROV, VI; KALABUKHOVA, VF; LOMONOVA, EE; OSIKO, VV; TATARINTSEV, VI.
INFLUENCE OF IMPURITIES AND ANNEALING CONDITIONS ON OPTICAL-PROPERTIES OF SINGLE-CRYSTALS OF ZRO2 AND HFO2
INORGANIC MATERIALS 13(12), 1747 (1977)

452. CHISTYI, IL; FABELINSKII, IL; KITAEVA, VF; OSIKO, VV; PISAREVSKII, YV; SILVESTROVA, IM; SOBOLEV, NN.
EXPERIMENTAL-STUDY OF PROPERTIES OF ZRO2-Y2O3 AND HFO2-Y2O3 SOLID-SOLUTIONS
JOURNAL OF RAMAN SPECTROSCOPY 6(4), 183 (1977)

453. 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)

454. 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) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 7(8), 943 (1977)]

455. GLUSHKOVA, VB; OSIKO, VV; SHCHERBAKOVA, LG; ALEKSANDROV, VI; PAPUTSKII, YN; TATARINTSEV, VM.
CHARACTERISTICS OF MONO-CRYSTALLINE SOLID-SOLUTIONS IN SYSTEM ZRO2-Y2O3
INORGANIC MATERIALS 13(12), 1751 (1977)

456. KATSNELSON, AA; ALEXANDROV, VI; OSIKO, VV; REVKEVICH, GP; STUPINA, NN; TATARINTSEV, VM.
PICTURE OF DIFFUSE X-RAY-SCATTERING IN SINGLE-CRYSTALS OF SOLID-SOLUTIONS HFO2-Y2O3 AND ZRO2-Y2O3
KRISTALLOGRAFIYA 22(5), 1110 (1977)

457. 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 ER3+ IONS IN ALUMINUM GARNETS AT ROOM-TEMPERATURE
PHYSICA STATUS SOLIDI A-APPLIED RESEARCH 40(1), K69 (1977)

458. VORONOV, VV; KARLOV, NV; KUZMIN, GP; KUZMINOV, YS; KURITSIN, BA; NIKIFOROV, SM; OSIKO, VV; PROKHOROV, AM.
FAST RESPONSE PYROELECTRIC DETECTOR BASED ON BA0,25SR0,75NB2O6 CRYSTALS
KVANTOVAYA ELEKTRONIKA 4(9), 1903 (1977)

459. 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..
PHYSICOCHEMICAL, SPECTRAL, LUMINESCENCE AND STIMULATED EMISSION PROPERTIES OF PHOSPHATE GLASSES WITH HIGH NEODYMIUM CONCENTRATIONS
SOVIET JOURNAL OF QUANTUM ELECTRONICS 6(10), 1220 (1976)

460. 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 ER3+ IONS IN MIXED YTTRIUM-ERBIUM ALUMINIUM GARNETS
SOVIET JOURNAL OF QUANTUM ELECTRONICS 6(7), 796 (1976)

461. 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 Y2O3 AND SC2O3 CRYSTALS
SOV. PHYS. 4, 8 (1976)

462. 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)

463. ASHUROV, MK; VORONKO, YK; OSIKO, VV; SOBOL, AA; STARIKOV, BP; TIMOSHECHKIN, MI; YABLONSKII, AY.
INEQUIVALENT LUMINESCENCE-CENTERS OF ER3+ IN GALLIUM GARNET SINGLE-CRYSTALS
PHYSICA STATUS SOLIDI A-APPLIED RESEARCH 35(2), 645 (1976)

464. BASIEV, TT; ZHARIKOV, EV; ZHEKOV, VI; MURINA, TM; OSIKO, VV; PROKHOROV, AM; STARIKOV, BP; TIMOSHECHKIN, MI; SHCHERBAKOV, IA.

RADIATIVE AND NONRADIATIVE-TRANSITIONS IN ER3+ IN MIXED YTTRIUM-ERBIUM-ALUMINUM GARNETS
KVANTOVAYA ELEKTRONIKA 3(7), 1471 (1976)

465. 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)

466. 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)

467. 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) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 6(3), 334 (1976)]

468. ERMAKOVICH, KK; LAZUKIN, VN; OSIKO, VV; CHEPELEVA, IV.
EPR IN CUBIC (ZRO2)0.9(Y2O3)0.1-VO2+ AND (HFO2)0.9(Y2O3)0.1-CU2+ SINGLE-CRYSTALS
FIZIKA TVERDOGO TELA 18(5), 1450 (1976)

469. 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) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 6(3), 341 (1976)]

470. 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)

471. 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)

472. 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)

473. 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)

474. 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)

475. VORONKO, YK; MAMEDOV, TG; OSIKO, VV; ET AL..
LUMINESCENCE QUENCHING IN GARNETS DOPED WITH TRIVALENT RE
JETP 12, 478 (1976)

476. 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 ZRO2 SINGLE CRYSTALS
IZV. AKAD. NAUK SSSR, NEORG. MATER. 11(4), 664 (1975)

477. 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)

478. 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 ND3+ IN LASER SILICATE-GLASSES
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 69(2), 540 (1975)

479. 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)

480. BATYGOV, SK; KULEVSKII, LA; PROKHOROV, AM; OSIKO, VV; SAVELEV, AD; SMIRNOV, VV.
ROOM-TEMPERATURE CAF2-ER3+ LASER

KVANTOVAYA ELEKTRONIKA 1(12), 2633 (1974) [SOVIET JOURNAL OF QUANTUM ELECTRONICS 4(12), 1469 (1975)]

481. VORONOV, VV; DESYATKOVA, SM; IVLEVA, LI; KUZMINOV, YS; OSIKO, VV.
ELECTRICAL PROPERTIES OF SINGLE-CRYSTALS OF STRONTIUM-BARIUM NIOBATE, GROWN FROM STOICHIOMETRIC MELT OF COMPOSITION BA0,25SR0,75NB2O6
KRISTALLOGRAFIYA 19(2), 401 (1974) [SOVIET PHYSICS - CRYSTALLOGRAPHY 19(2), 247 (1974)]

482. 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)

483. 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) [SOVIET PHYSICS - SOLID STATE 16(1), 96 (1974)]

484. ALEKSANDROV, VI; KITAEVA, VF; KOZLOV, IV; OSIKO, VV; SOBOLEV, NN; TATARINT.VM; CHISTYI, IL.
MANDELSHTAM-BRILLOUIN LIGHT-SCATTERING AND ELASTIC PROPERTIES ZRO2 SINGLE-CRYSTAL STABILIZED WITH YTTRIUM
FIZIKA TVERDOGO TELA 16(8), 2230 (1974)

485. 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)

486. 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 ER3+ IONS IN YTTRIUM ALUMINUM GARNET CRYSTALS AT X = 2.94 PM,
KVANTOVAYA ELEKTRON. 1, 1867 (1975) [SOV. J. QUANTUM ELECTRON 4(8), 1039 (1975)]

487. VORONKO, YK; MAMEDOV, TG; OSIKO, VV; TIMOSHEC.MI; SHCHERBA.IA.
EFFECT OF DONOR-DONOR AND DONOR-ACCEPTOR INTERACTIONS ON DECAY KINETICS OF METASTABLE STATE OF ND3+ IN CRYSTALS
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 65(3), 1141 (1973)

488. 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)

489. VORONOV, VV; DESYATKOVA SM; 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) [SOVIET PHYSICS - SOLID STATE 15(7), 1463 (1974)]

490. VORONKO, YK; MAKSIMOVA, GV; OSIKO, VV; SOBOL, AA; STARIKOV, BP; TIMOSHECHKIN, MI.
SPECTROSCOPIC PROPERTIES OF LA2BE2O5 - ND-3+ SINGLE-CRYSTALS
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE 17(1), K41 (1973)

491. 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)

492. 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 ND3+ IONS IN LAF3 CRYSTALS
SOVIET PHYSICS - SOLID STATE 14(9), 2294 (1973)

493. VORONKO, YK; SHCHERBAKOV, IA; SAVOSTYANOV, NV; OSIKO, VV; FEDOROV, VS.
STUDY OF DISACTIVATION PROCESSES FOR METASTABLE STATE OF ND+3 EXCITED IONS IN LAF3 CRYSTALS
FIZIKA TVERDOGO TELA 14(9), 2656 (1972)

494. BATYGOV, SK; RADYUKHIN,VS; MAIER, AA; DENKER, BI; TIMOSHEC.MI; VORONKO, YK; OSIKO, VV.
COLOR CENTERS IN Y3AL5O12 CRYSTALS
FIZIKA TVERDOGO TELA 14(4), 977 (1972)

495. 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 ND3+
OPTIKA I SPEKTROSKOPIYA 33(4), 681 (1972)

496. VORONKO, YK; OSIKO, VV; SHCHERBAKOV, IA.
INVESTIGATION OF ELEMENTARY CROSS-RELAXATION ACT OF ND3+ ION EXCITED-STATE IN CRYSTALS
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 63(2), 691 (1972)

497. 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)

498. BATYGOV, SK; OSIKO, VV.
MOBILITY OF INTERSTITIAL FLUORINE IN FLUORITE CRYSTALS
SOVIET PHYSICS SOLID STATE,USSR 13(8), 1886 (1972)

499. OSIKO, VV; SHCHERBA.IA.
CALCULATION OF POINT-DEFECT EQUILIBRIUM IN CAF2-NDF3 CRYSTALS
SOVIET PHYSICS SOLID STATE,USSR 13(4), 820 (1971)

500. ALEKSANDROV, VI; VORONKO, YK; MIKHALEV.VG; OSIKO, VV; PROKHOROV, AM; TATARINTSEV, VM; UDOVENCHIK, VT; SHIPULO, GP.
SPECTROSCOPIC PROPERTIES AND GENERATION OF ND3+ IN ZRO2 AND HFO2 CRYSTALS
DOKLADY AKADEMII NAUK SSSR 199(6), 1282 (1971)

501. IVLEVA, L.I.; KUZ'MINOV, YU.S.; OSIKO, V.V..
ELECTRICAL CONDUCTIVITY OF LINBO3
IZVESTIYA AKADEMII NAUK SSSR, NEORGANICHESKIE MATERIALY 7(8), 1377 (1971)

502. VORON'KO, YU.K.; DENKER, B.I.; OSIKO, V.V..
X-RAY LUMINESCENCE OF CAF2:TR3+ CRYSTALS
FIZIKA TVERDOGO TELA 13(8), 2193 (1971) [SOVIET PHYSICS SOLID STATE,USSR 13(1), 141 (1971)]

503. 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 [SOVIET PHYSICS JETP-USSR 33(3), 510 (1971)]
ZHURNAL EKSPERIMENTAL'NOI I TEORETICHESKOI FIZIKI 60(3), 943 (1971)

504. VORONKO, YK; DMITRUK, MV; OSIKO, VV; SHCHERBAKOV, IA.
EQUILIBRIUM OF IMPURITY DEFECTS IN CRYSTALS OF CAF2-YB3+
SOVIET PHYSICS SOLID STATE,USSR 13(6), 1348 (1971)

505. 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)

506. VORONKO, YK; DMITRUK, MV; MAKSIMOV.GV; OSIKO, VV; TIMOSHEC.MI; SHCHERBA.IA.
REDUCED ABSORPTION OF ND3+ ION IN VARIOUS BASES
SOVIET PHYSICS JETP-USSR 30(1), 68 (1970)

507. VORONKO, YK; OSIKO, VV; SCHERBAK.IA.
INVESTIGATION OF INTERACTION OF ND3+ IONS IN CAF2, SRF2, AND BAF2 CRYSTALS (TYPE I)
SOVIET PHYSICS JETP-USSR 28(5), 838 (1969)

508. VORONKO, YK; DENKER, BI; OSIKO, VV; PROKHORO.AM; TIMOSHEC.MI.
X-RAY LUMINESCENCE OF RARE-EARTH ELEMENTS IONS IN CRYSTALS Y3AL5O12
DOKLADY AKADEMII NAUK SSSR 188(6), 1258 (1969)

509. VORON'KO, YU.K.; OSIKO, V.V.; SHCHERBAKOV, I.A..
OPTICAL CENTERS AND THE INTERACTION OF YB3+ IONS IN CUBIC FLUORITE CRYSTALS
ZHURNAL EKSPERIMENTAL'NOI I TEORETICHESKOI FIZIKI 56(1), 151 (1969) [SOVIET PHYSICS JETP-USSR 29(1), 86 (1969)]

510. VORONKO, Y.K.; DMITRUK, M.V.; KAMINSKII, A.A.; OSIKO, V.V.; SHPAKOV, V.N..
CONTINOUS STIMULATED RADIATION OF A LAF3 -ND3+ LASER AT ROOM TEMPERATURE
ZHURNAL EKSPERIMENTAL'NOI I TEORETICHESKOI FIZIKI 54(3), 751 (1968) [SOVIET PHYSICS JETP-USSR 27(3), 400 (1968)]

511. BRUK, ZM; VORONKO, YK; MAKSIMOVA, GV; OSIKO, VV; PROKHOROV, AM; SHPILOV, KF; SHCHERBAKOV, IA.
OPTICAL PROPERTIES AND STIMULATED EMISSION OF ND3+ IN FLUOR-APATITE
JETP LETTERS-USSR 8(7), 221 (1968)

512. VORONKO, Y; DMITRUK, MV; OSIKO, VV; UDOVENCH.VT.
ER -] HO AND ER -] TU EXCITATION ENERGY TRANSFERS IN CAF2 CRYSTALS
SOVIET PHYSICS JETP-USSR 27(2), 197 (1968)

513. VORONKO, YK; MIKAELYA.RG; OSIKO, VV.
INVESTIGATION OF ND3+ OPTICAL CENTERIN CAF2--ND3+--TR3+ CRYSTALS (TYPE 1)
SOVIET PHYSICS JETP-USSR 26(2), 318 (1968)

514. DMITRUK, MV; KAMINSKII, AA; OSIKO, VV; TEVOSYAN, TA.
INDUCED EMISSION OF HEXAGONAL LAF3-SRF2-ND3+ CRYSTALS AT ROOM-TEMPERATURE
PHYSICA STATUS SOLIDI 25(2), K75 (1968)
515. ZOLOTOV, E.M.; OSIKO, V.V.; PROKHOROV, A.M.; SNIPULO, G.P..
INVESTIGATING THE LUMINESCENT AND LASER PROPERTIES OF SRF2:DY2+ CRYSTALS
ZHURNAL PRIKLADNOI SPEKTROSKOPII 8(6), 1046 (1968)
516. KAMINSKII, A.A.; OSIKO, V.V.; UDOVECHIK, V.T..
STIMULATED EMISSION BY SRF2. LAF2:ND3+ AT ROOM TEMPERATURE
ZHURNAL PRIKLADNOI SPEKTROSKOPII 6(1), 40 (1967) [JOURNAL OF APPLIED SPECTROSCOPY 6(1), 23 (1967)]
517. 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) [J. APPL. SPECTROSC. 6(2), 168 (1967)]
518. 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)
519. BAGDASAROV, KS; VORONKO, YK; KAMINSKI.AA; OSIKO, VV; PROKHORO.AM.
ROOM-TEMPERATURE INDUCED EMISSION OF YTTROFLUORITE CRYSTALS CONTAINING ND3+
SOVIET PHYSICS CRYSTALLOGRAPHY, USSR 10(5), 626 (1966)
520. VORONKO, YK; KAMINSKI.AA; OSIKO, VV.
OPTICAL ER3+ CENTERS IN CUBIC CRYSTALS OF FLUORITE TYPE
SOVIET PHYSICS JETP-USSR 23(1), 10 (1966)
521. VORONKO, YK; KAMINSKI.AA; OSIKO, VV.
ANALYSIS OF OPTICAL SPECTRA OF PR3+ ND3+ EU3+ AND ER3+ IN FLUORITE CRYSTALS (TYPE 1) BY CONCENTRATION SERIES METHOD
SOVIET PHYSICS JETP-USSR 22(3), 501 (1966)
522. VORONKO, Y.K.; KAMINSKY, A.A.; OSIKO, V.V..
ANALYSIS OF THE OPTICAL SPECTRA OF CAF2-ND3+ CRYSTALS (TYPE I)
ZHURNAL EKSPERIMENTAL'NOI I TEORETICHESKOI FIZIKI 49(2(8)), 420 (1965) [SOVIET PHYSICS JETP-USSR 22(2), 295 (1966)]
523. VORON'KO, YU.K.; OSIKO, V.V.; UDOVENCHIK, V.T.; FURSIKOV, M.M..
OPTICAL PROPERTIES OF CAF2: DY3+ CRYSTALS
FIZIKA TVERDOGO TELA 7(1), 267 (1965) [SOVIET PHYSICS SOLID STATE,USSR 7(1), 204 (1965)]
524. KAMINSKY, A.A.; KORNIENKO, L.S.; MAKSIMOVA, G.V.; OSIKO, V.V.; PROKHOROV, A.M.; SHIPULO, G.P..
CONTINUOUS LASER ON CAWO4 WITH ND3+ OPERATING AT ROOM TEMPERATURE
ZHURNAL EKSPERIMENTAL'NOI I TEORETICHESKOI FIZIKI 49(1(7)), 31 (1965) [SOVIET PHYSICS JETP-USSR 22(1), 22 (1966)]
525. BAGDASAROV, KS; VORONKO, YK; KAMINSKII, AA; KROTOVA, LV; OSIKO, VV.
MODIFICATION OF OPTICAL PROPERTIES OF CAF2-TR3+ CRYSTALS BY YTTRIUM IMPURITIES
PHYSICA STATUS SOLIDI 12(2), 905 (1965)
526. OSIKO, VV.
THERMODYNAMICS OF OPTICAL CENTERS IN CAF2-TR3+ CRYSTALS
SOVIET PHYSICS SOLID STATE,USSR 7(5), 1047 (1965)
527. VORONKO, YK; KAMINSKI.AA; OSIKO, VV; PROKHOROV AM.
STIMULATED EMISSION OF HO3+ IN CAF2 AT LAMBDA=5512 A
JETP LETTERS-USSR 1(1), 3 (1965)
528. VORON'KO, Y.K.; KANINSKII, A.A.; OSIKO, V.V.; PROKHOROV, A.M..
SELECTIVE EXCITATION OF RARE EARTH ION CENTRES IN CRYSTALS
ZHURNAL EKSPERIMENTAL'NOI I TEORETICHESKOI FIZIKI, PIS'MA V REDAKTSIYU 1(4), 33 (1965)
529. VORONKO, YK; KROTOVA, LV; OSIKO, VV; UDOVENCHIK VT; FURSIKOV, MM.
OPTICAL PROPERTIES OF CAF2-ND3+ CRYSTALS
SOVIET PHYSICS SOLID STATE,USSR 7(6), 1450 (1965)
530. VORONKO, YK; KAMINSKI.AA; KORNIENK.LS; OSIKO, VV; PROKHOROV AM; UDOVENCHIK VT.
INVESTIGATION OF STIMULATED EMISSION OF CAF2-ND3+ (TYPE 2) CRYSTALS AT ROOM TEMPERATURE
JETP LETTERS-USSR 1(2), 39 (1965)

531. OSIKO, VV; MAKSIMOVA, GV.
THE VALENCY OF MANGANESE AS AN ACTIVATOR OF CRYSTALLOPHOSPHORS
OPTIKA I SPEKTROSKOPIYA 9(4), 478 (1960)

532. OSIKO, VV.
LOW-TEMPERATURE LUMINESCENCE OF ZINC OXIDE IN THE INFRARED REGION OF THE SPECTRUM
OPTIKA I SPEKTROSKOPIYA 7(6), 770 (1959)

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