Публикации МЛЦ МГУ в 2010 году

Сборники научных трудов

1. Nazarov M., Shkurinov A., Tuchin V. V., Zhang X.-C. Terahertz Tissue Spectroscopy and Imaging. Handbook of Photonics for Biomedical Science. Chapter 23, Editor: Valery V. Tuchin, Series in Medical Physics and Biomedical Engineering, CRC press, Taylor and Francis Group, 2010.
2. Андреев А.В., Стремоухов С.Ю., Шутова О.А. Вероятность ионизации многоуровневого атома фемтосекундным лазерным импульсом. Ученые Записки КГУ, Сер. Физ.-матем. Науки, т. 152 кн. 2, с. 10-19 (2010).
3. Карговский А.В., Погребная А.Ф., Романовский Ю.М., Тихонов А.Н. F1АТФаза как динамическая система. В сб. Динамические модели процессов в клетках и субклеточных структурах. (Под. Ред. Г.Ю.Ризниченко, А.Б.Рубина) (М.-Ижевск: Изд-во НИЦ «Регулярная и хаотическая динамика» Ин-т компьютерных исследований, 69-98 (2010).
4. V.N.Zadkov, Th.Durt (Eds.), Quantum Optics, SPIE, Vol. 7727 (2010).

Научно-популярные издания

1. Емельянов В.И. Взаимодействие электромагнитного излучения с конденсированными средами, электронная энциклопедия “Ломоносов”, с. 12, 2010.

Статьи в реферируемых научных журналах

1. Андреев А.В., Стремоухов С.Ю., Шутова О.А. Ионизация многоуровневого атома ультракороткими лазерными импульсами. ЖЭТФ, т.138, в. 6, с. 1060 (2010).
2. Андреев А.В., Грищенко Ю.В., Добындэ М.И., Долгова Т.В., Занавескин М.Л., Коновко А.А., Мамичев Д.А., Марченков А.Н., Новоселова Е.Г., Черных И.А., Смирнов И.С., Федянин А.А., Щербаков М.Р. Оптические свойства одномерных субволновых плазмонных наноструктур. Письма в ЖЭТФ, т.92, в.11, с.823-826 (2010).
3. Brandt N.N., Chikishev A.Yu., Itoh K., Rebrikova N.L. ATR-FTIR and FT Raman spectroscopy and laser cleaning of old paper samples with foxings. Laser Physics, v.19, №3, p.483-492 (2009).
4. Брандт Н.Н., Ребрикова Н.Л., Чикишев А.Ю. КР спектроскопия компонент иконописного изображения XVIII века. Вестник Московского университета, серия 3 (Физика. Астрономия), №6, с.40-44 (2009).
5. Балахнина И.А., Брандт Н.Н., Кимберг Я.С., Ребрикова Н.Л., Чикишев А.Ю. Изменение в колебательных ИК спектрах желтой охры при смешивании со связующим и высушивании краски. Журнал прикладной спектроскопии, принято к печати в 2011 г.
6. Гордиенко В. М., Макаров И. А., Петухов В. П., Хоменко А. С. Фемтосекундная лазерная плазма в микроканале кристалла CaF2 и эффективная генерация характеристического рентгеновского излучения. Поверхность. Рентгеновские, Синхротроные и нейтроные исследования, т.3, с. 5–11 (2010).
7. Gordienko V. M., Khomenko A. S., Makarov I. A., Petukhov V. P. Enhanced laser induced K X-Rays generation during microchannel formation inside the object positioned in air. Laser Physics, v. 20, N 4, p. 1–4 (2010).
8. Гордиенко В.М., Джиджоев М.С., Жвания И.А., Петухов В.П., Платоненко В.Т., Трубников Д.Н., Хоменко А.С. Эффективная генерация К-характеристического рентгеновского излучения при лазерном возбуждении крупных кластеров SF_6 в присутствии газа носителя Ar. Письма в ЖЭТФ, т.91, N7, с.355-362 (2010).
9. Гордиенко В.М., Джиджоев М.С., Жвания И.А., Петухов В.П., Платоненко В.Т., Трубников Д.Н., Хоменко А.С. Рентгеновское излучение из кластерной плазмы, созданной сверхинтенсивным фемтосекундным лазером ближнего ИК диапазона., Узб.Физ.Журн., т.12, N1-2, с.50-56 (2010).
10. Voronin A.A., Gordienko V. M., Platonenko V. T., Panchenko V. Ya., Zheltikov A. M. Ionization-assisted guided-wave pulse compression to extreme peak powers and single-cycle pulse widths in the mid-infrared, Optics Letters, v.35, N21, p.3640-3642 (2010).
11. Гордиенко В.М., Михеев П.М., Потемкин Ф.В., Генерация терагерцовых когерентных фононов при острой фокусировке фемтосекундного лазерного излучения в объем кристаллических диэлектриков в режиме формирования плазмы, Письма в ЖЭТФ, т.92, N8, с. 553-558 (2010).
12. Гордиенко В.М., Платоненко В.Т. Регенеративное усиление пикосекундных импульсов десятимикронного диапазона в CO_2-лазере высокого давления с оптической накачкой, Квант. Электрон., т.40, № 12, с. 1118-1122 (2010).

13. Емельянов В.И. Дефектно-деформационная неустойчивость поверхностного слоя как универсальный механизм образования решеток и ансамблей наноточек при действии ионных и лазерных пучков на твердые тела, Изв.РАН, сер. физическая, т.74, №2, с.172-178 (2010).
14. Zheltikov A.M., Voronin A.A., Kienberger R., Krausz F., Korn G. Frequency-Tunable Multigigawatt Sub-Half-Cycle Light Pulses from Coupled-State Dynamics of Optical Solitons and Impulsively Driven Molecular Vibrations. Phys. Rev. Lett., v. 105, p.103901(1-4) (2010).
15. Verhoef A.J., Mitrofanov A.V., Serebryannikov E.E., Kartashov D.V., Zheltikov A.M., Baltuska A. Optical Detection of Tunneling Ionization. Phys. Rev. Lett., v.104, p.163904(1-4) (2010).
16. Reiter F., Graf U., Serebryannikov E.E., Schweinberger W., Fiess M., Schultze M., Azzeer A.M., R. Kienberger R., Krausz F., Zheltikov A.M., Goulielmakis E. Route to Attosecond Nonlinear Spectroscopy. Phys. Rev. Lett., v.105, p. 243902(1-4) (2010)
17. Shneider M.N., Voronin A.A., Zheltikov A.M. Action-potential-encoded second-harmonic generation as an ultrafast local probe for nonintrusive membrane diagnostics. Phys.Rev.E, v.81, p.031926(1-5) (2010).
18. Voronin A.A. and Zheltikov A.M. Ionization penalty in nonlinear optical bioimaging. Phys. Rev. E, v.81, p.051918(1-7) (2010).
19. Savvin A.D., Lanin A.A., Voronin A.A., Fedotov A.B., Zheltikov A.M. Coherent anti-Stokes Raman metrology of phonons powered by photonic-crystal fibers. Optics Letters, v.**35**, p.919-921 (2010)
20. Voronin A.A., Gordienko V.M., Platonenko V.T., Panchenko V.Ya., Zheltikov A.M. Ionization-assisted guided-wave pulse compression to extreme peak powers and single-cycle pulse widths in the mid-infrared. Optics Letters, v.35, 3640-3642 (2010).
21. Lanin A.A., Fedotov I.V., Sokolov V.I., Fedotov A.B., Akhmanov A.S., Panchenko V.Ya., Zheltikov A.M. Stimulated Raman amplification and high-order Raman sideband generation in a polymer waveguide on a printed circuit. Optics Letters, v.35(23), p.3976-3978 (2010).
22. Fang X.-H., Hu M.-L., Li Y.-F., Chai L., Wang C.-Y., Zheltikov A.M. Hybrid multicore photonic-crystal fiber for in-phase supermode selection. Optics Letters, v. **35**, p. 493-495 (2010).
23. Fang X.-H., Hu M.-L., Liu B.-W., Chai L., Wang C.-Y., Zheltikov A.M. Generation of 150 MW, 110 fs pulses by phase-locked amplification in multicore photonic crystal fiber. Optics Letters, v. 35 (14), p. 2326-2328 (2010).
24. Chia S.-H., T.-M., Ivanov A.A., A.B., A.M., Tsai M.-R., Chan M.-C., Yu C.-H., Sun C.-K. A sub-100fs self-starting Cr:forsterite laser generating 1.4W output power. Optics Express, v.18(23), p. 24085-24091 (2010).
25. Voronin A.A., Mitrokhin V.P., Ivanov A.A., Fedotov A.B., Sidorov-Biryukov D.A., Beloglazov V.I., Alfimov M.V., Ludvigsen H., Zheltikov A.M. Understanding the nonlinear-optical response of a liquid-core photonic-crystal fiber. Laser Physics Letters, v.**7(1)**, p.46–49 (2010).
26. Sidorov-Biryukov D.A., Kudinov K.A., Podshivalov A.A., Zheltikov A.M. Widely tunable 70-MHz near-infrared source of ultrashort pulses based on a mode-locked ytterbium laser and a photonic-crystal fiber**.** Laser Physics Letters, v.7(5), p. 355-358 (2010).
27. Song Y.-J.,. Hu M.-L,. Gu C.-L, Chai, L. Wang C.-Y., Zheltikov A.M. Mode-locked Yb-doped large-mode-area photonic crystal fiber laser operating in the vicinity of zero cavity dispersion. Laser Physics Letters, 7(3), p.230-235 (2010).
28. Fedotov I.V., Lanin A.A., Sokolov V.I., Fedotov A.B., Akhmanov A.S., Panchenko V.Ya., Zheltikov A.M. Ultrafast multiplex broadband optical switching in the infrared with a fluorinated polymer. Laser Physics Letters, 7(9), p. 657-660 (2010).
29. Желтиков А.М. Субволновая локализация электромагнитного поля в собственных модах диэлектрических микро- и наносветоводов. Письма в ЖЭТФ, т.91(10), с. 410 - 413 (2010).
30. Liu H., Hu M.; Liu B., Song Y., Chai L., Zheltikov A.M., Wang C. Compact high-power multiwavelength photonic-crystal-fiber-based laser source of femtosecond pulses in the infrared–visible–ultraviolet range. JOSA B, v. 27 (11), p.2284-2289 (2010)
31. Shneider M.N., Zheltikov A.M., Miles R.B. Long-lived laser-induced microwave plasma guides in the atmosphere: Self-consistent plasma-dynamic analysis and numerical simulations. Journal of Applied Physics, v.108, p. 033113(1-8) (2010).
32. Федотов И.В., Тащилина А.Ю., Доронина Л.В., Федотов А.Б., Жохов П.А., Сидоров-Бирюков Д.А., Алфимов М.В., Желтиков А.М. Наночастицы в наносветоводе: Оптические системы расширенной функциональности на основе импрегнированных наночастицами микро-и наносветоводных структур. Российские нанотехнологии, т.5 (3-4), стр. 98-101 (2010).
33. Fedotov I.V.; Lanin A.A.; Voronin A.A.; Fedotov A.B.; Zheltikov A.M.; Egorova O.N.; Semjonov S.L.; Pryamikov A.D.; Dianov E.M. Generation of 20 fs, 20 MW pulses in the near-infrared by pulse compression using a large-mode-area all-silica photonic band-gap fiber. Journal of Modern Optics, v. 57(19), p.1867 - 1870 (2010).
34. Wang C., Gong J ., Xing Q., Li Y., Liu F., Zhao X., Chai L., Wang C., Zheltikov A.M. Application of Terahertz Time-Domain Spectroscopy in Intracellular Metabolite Detection. J. Biophotonics, v.3 (10–11), p.641–645 (2010).

35. Doronina-Amitonova L.V., Fedotov I.V., Ivashkina O.I., Zots M.A., Fedotov A.B., Anokhin K.V., Zheltikov A.M. Fiber-optic probes for in vivo depth-resolved neuron-activity mapping. J. Biophotonics, v.3 (10–11), p.660–669 (2010).
36. Brown C.T.A., Deckert D., Sergeev A.M., Zheltikov A.M. Nanobiophotonics: photons that shine their light on the life at the nanoscale. J. Biophotonics, v.3 (10–11), p.639–640 (2010).
37. Liu F., Song Y.-J., Xing Q.-R., Hu M.-L., Li Y.-F., Wang C.-L., Chai L., Zhang W.-L., Zheltikov A.M., Wang C.-Y.. Broadband Terahertz Pulses Generated by a Compact Femtosecond Photonic Crystal Fiber Amplifier. IEEE Photonics Technology Letters, v. 22 (11), p.814-816 (2010).
38. Владимирова Ю.В., Задков В.Н. Частотно-модуляционная спектроскопия когерентных темных резонансов многоуровневых атомов в магнитном поле. Вестник МГУ. Физика. Астрономия. N6. С. 63-69. (2010)
39. Zhdanov D.V., Zadkov V.N. Coherent Control of Chirality in Ensemble of Randomly Oriented Molecules Using a Sequence of Short Laser Pulses. Laser Physics, Vol.20, PP 107-118 (2010).
40. Dormidonov A.E., Kandidov V.P., Kompanets V.O., Chekalin S.V. Interference effects in the conical emission of femtosecond filament in Fused silica. Pis'ma v ZhETF, v.**91, №**8, p.405-409 (2010).
41. Сметанина Е. О., Дормидонов А. Е., Компанец В. О. Коническая эмиссия суперконтинуума при филаментации фемтосекундного лазерного импульса в плавленом кварце. Оптический журнал, т.**7**, №7, с.75-77 (2010).
42. Silaeva E.P., Shlenov S.A., Kandidov V.P. Multifilamentation of high-power femtosecond laser pulse in turbulent atmosphere with aerosol. Applied Physics B: Lasers and Optics, v.**101**, No. 1-2, p.393-401 (2010).
43. Кандидов В.П., Шленов С.А., Силаева Е.П., Дергачев А.А. Филаментация мощного фемтосекундного лазерного излучения в воздухе и ее приложения в атмосферной оптике. Оптика атмосферы и океана, т. **23, №**10, с. 873-884 (2010).
44. Валуев В.В., Дормидонов А.Е., Кандидов В.П., Шленов С.А., Корниенко В.Н., Черепенин В.А., Плазменные каналы множества филаментов как направляющая система для сверхвысокочастотного излучения, Радиотехника и электроника, т. **55**, № 2, с. 222-229 (2010).
45. V.Y. Fedorov, Tverskoy O.V., Kandidov V.P., Transport of high-flunce energe by femtosecond filament in air. Applied Physics B: Lasers and Optics, v.**99**, p. 299-306 (2010).
46. Kosareva O., Panov N., Makarov V., Perezhogin I., Marceau C., Chen Y., Yuan S., Wang T., Zeng H., Savel'ev A., Chin S.L., Polarization rotation due to femtosecond filamentation in an atomic gas, Optics Letters v.**35**, 2904-2906 (2010).
47. Uryupina D., Kurilova M., Mazhorova A., Panov N., Volkov R., Gorgutsa S., Kosareva O., Savel'ev A., Chin S.L., Few-cycle optical pulse production from collimated femtosecond laser beam filamentation, JOSA B v.**27**, 667-674 (2010).
48. Bérubé J-P, Vallée R., Bernier M., Kosareva O.G., Panov N.A., Kandidov V.P., Chin S.L., Self and forced periodic arrangement of multiple filaments in glass, Optics Express, v.**18**, 1801-1819 (2010).Дубровкин А.М., Ежов А.А., Козенков В.М., Магницкий С.А., Нагорский Н.М., Панов В.И. Изменение наноструктуры тонкой твердой пленки азокрасителя AD-1 под действием немодулированного светового излучения. Квантовая Электроника, т.40, №4, с. 286-287 (2010).
49. Дубровкин А.М., Магницкий С.А., Чернявский В.М. Закономерности формирования пространственных световых структур нанообъектами при лазерном освещении. Препринт физического факультета МГУ им.М.В.Ломоносова. №2/2010, 53 с. (2010).
50. Голубков А.А., Макаров В.А.. Определение диэлектрической проницаемости одномерно неоднородной пластины с сильной частотной дисперсией и поглощением по коэффициентам отражения и прохождения s-поляризованных волн. Оптика и спектроскопия, т. 108, № 3, с. 802-809 (2010).
51. Голубков А.А., Макаров В.А. Восстановление координатной зависимости тензора диэлектрической проницаемости одномерно неоднородной среды, симметрия которой обеспечивает его диагональный вид. Вестн. Моск. ун-та. Физ. и астрон., № 3, с. 32-36 (2010).
52. Макаров В.А., Пережогин И.А., Потравкин Н.Н.. Распространение эллиптически поляризованных лазерных импульсов в изотропной гиротропной среде с релаксационной кубической нелинейностью и аномальной частотной дисперсией. Оптика и спектроскопия, т. 109, № 5, с. 826-830 (2010).
53. Kosareva O.G., Panov N., Makarov V.A., Perezhogin I.A., Marceau C., Chen Y., Yuan S., Wang T., Zeng H., Savel'ev A.B., Chin S.L. Polarization Rotation due to femtosecond filamentation in an atomic gas. Optics Letters., v. 35, N 17, p. 2904-2906 (2010).
54. Голубков А.А., Макаров В.А. Определение координатной зависимости компонент тензора кубической восприимчивости $\hat{\chi}^{(3)}(z,\omega,-\omega,\omega,\omega)$ одномерно неоднородной пластины с сильной частотной дисперсией и поглощением. Квант. электрон., т. 40, № 11, с. 1045-1050 (2010).
55. Аракчеев В.Г., Баграташвили В.Н., Валеев А.А., Морозов В.Б., Попов В.К.Особенности уширения колебательных полос в спектре двуокиси углерода вблизи критической температуры. Сверхкритические флюиды. Теория и практика, т.5, №4, с.32-42 (2010).

56. V. G. Arakcheev, V.N.Bagratashvili, A.A.Valeev, V.B.Morozov, V.K.Popov. Broadening Features of Carbon Dioxide Vibrational Bands near the Critical temperature. Russian Journal of Physical Chemistry B, v.5, No.4, p.75-82 (2010).
57. Никитин С.Ю., Луговцов А.Е., Приезжев А.В. К проблеме видности дифракционной картины в лазерной дифрактометрии эритроцитов. Квантовая электроника, том 40, N 12 (2010).
58. Parashchuk O. D., Laptinskaya T. V., Paraschuk D. Y. Macromolecular dynamics of conjugated polymer in donor-acceptor blends with charge transfer complex. Phys. Chem. Chem. Phys., DOI: 10.1039/C0CP01710H (2011).
59. Ozimova A. E., Bruevich V. V., Dittrich T., Paraschuk D. Y. Enhanced Photostability and Red-NIR Photosensitivity of Conjugated Polymer Charge-Transfer Complexes. Macromolecular Symposia, v.296, №1, p.138-143 (2010).
60. Бруевич В. В., Громченко А. А., Паращук Д. Ю. Вольтамперные характеристики полимер-фуллереновых структур солнечных фотоэлементов. Наноматериалы и наноструктуры, v.1, №1, с.45-57 (2010).
61. Паращук О. Д., Сосорев А. Ю., Бруевич В. В., Паращук Д. Ю. Пороговое образование межмолекулярного комплекса переноса заряда полупроводникового полимера. Письма в ЖЭТФ, т.91, №7, p.379-384 (2010).
62. Parashchuk O. D., Bruevich V. V., Paraschuk D. Y. Association function of conjugated polymer charge-transfer complex. Phys. Chem. Chem. Phys., v.12, №23, p. 6021 - 6026 (2010).
63. Лаврова А.И., Постников Е.Б., Романовский Ю.М. Брюсселятор – абстрактная химическая реакция? УФН, **179,** 1327-1332 (2009).
64. Романовский Ю.М., Тихонов А.Н. Молекулярные преобразователи энергии живой клетки. Протонная АТФ-синтаза – вращающийся молекулярный мотор. УФН, **180,** 931-956 (2010).
65. Булушова Л.С., Чичигина О.А. Влияние энтропийных эффектов на диффузию адатома на поверхности кластера. Вестник Московского университета. Серия 3. Физика. Астрономия, №2, с. 31-36 (2010).
66. Чикишев А.Ю., Чичигина О.А., Шубина С.А. Характер коллективных низкочастотных колебаний в модели биополимера. Вестник Московского университета. Серия 3. Физика. Астрономия, № 4, с. 76-80 (2010).
67. Лоскутов А.Ю., Рябов А.Б., Краснова А.К., Чичигина О.А. Бильярды с возмущаемыми границами и некоторые их свойства. Нелинейная Динамика, Т. 6, № 3, с. 1-32 (2010).
68. Иванов К.А., Урюпина Д.С., Моршедиан Н., Волков Р.В., Савельев А.Б. Ускорение тяжелых многозарядовых ионов при воздействии фемтосекундного лазерного излучения субрелятивистской интенсивности на поверхность расплавленного металла. Физика плазмы, т.36, №2, с.115-120 (2010).
69. Besotosnii V., Cheshev E., Gorbunkov M., Kostryukov P., Krivonos M., Tunkin V., Jakovlev D. Diode end-pumped acousto-optically Q-switched compact Nd:YLF laser. Applied Physics B, v. 101, №1-2, p. 71-74 (2010).
70. Безотосный В.В., Кривонос М.С., Попов Ю.М., Чешев Е.А., Тункин В.Г., Горбунков М.В., Кострюков П.В. Твердотельные лазеры с диодной накачкой на основе Nd:YLF. Известия высших учебных заведений. Физика, статья принята к печати в 2011 г.
71. Бровко О.О., Валенти Д., Лебеденко С.И., Спаньоло Б., Чикишев А.Ю. Компьютерное моделирование осцилляций сигнала светорассеяния с учетом внешней вынуждающей силы. Вестник Московского университета. Серия 3. Физика. Астрономия, № 3, с. 23-26 (2010).
72. Долговский В. И., Лебеденко С.И., Чикишев А.Ю. Влияние растворителя на низкочастотные колебательные резонансы органических молекул. Оптика и спектроскопия (2010).
73. Сайгин М.Ю., Чиркин А.С. Одновременная параметрическая генерация и преобразование частоты вверх перепутанных оптических изображений. ЖЭТФ, Т. 138, N 1, с. 16-27 (2010).
74. Saygin M.Yu., Chirkin A.S., Kolobov M.I, Generation and teleportation of entangled images using multiwave nonlinear optical interactions. Proc. SPIE, № 7993-35, ICN10-IC200-7 (2010).
75. Куликов В.А., Шмальгаузен В.И. Оценка анизопланатизма в турбулентной структурированной атмосфере. Оптика атмосферы и океана, том 23, 2, стр. 161-165 (2010).
76. Петникова В.М., Шувалов В.В. Эффективная кубическая нелинейность, фотоиндуцированная анизотропия и эллиптически поляризованные кноидальные волны при удвоении частоты. Квантовая электроника, т.39, №12, с.1137-1142 (2009).
77. Петникова В.М., Шувалов В.В. Эффективная кубическая нелинейность и кноидальные волны при вырожденном параметрическом преобразовании частоты. Квантовая электроника, т.40, №3, с.219-222 (2010).
78. Петникова В.М., Шувалов В.В. Эффективная каскадная квазисинхронная параметрическая генерация с повышением частоты. Квантовая электроника, т.40, №4, с.329-334 (2010).
79. Петникова В.М., Шувалов В.В. Оптимальная обратная связь в эффективных однорезонаторных параметрических генераторах света. Квантовая электроника, т.40, №7, с.619-623 (2010).

80. Петникова В.М., Шувалов В.В. Оптимальная обратная связь в эффективных кольцевых двухрезонаторных параметрических генераторах света. Квантовая электроника, т.40, №7, с.624-628 (2010).
81. Nazarov M.M., Shkurinov A.P., Coutaz J.-L. *THz* Surface waves on the gratings and subwavelength structures. The Journal of Infrared, Millimeter, and Terahertz Waves. 2010 submitted.
82. M.M. Nazarov, A.P. Shkurinov, A.A. Angeluts, D.A. Sapozhnikov. On the choice of the nonlinear optical and semiconductor convertors of femtosecond laser pulses into terahertz range. Radiophysics and Quantum Electronics, Vol. 52, No.8, p.536 (2009).
83. Ожередов И.А., Шкуринов А.П., Гайворонский В.Я., Притула И.М. Еникеева В.А. Диэлектрические свойства композитного материала на основе дигидрофосфата калия и нанокристаллов диоксида титана в терагерцовом диапазоне. Вестник Новосибирского государственного университета. Серия: Физика. 2010, т.5, вып.4.
84. Balakin A.V., Borodin A.V., Kotelnikov I.A., Shkurinov A.P. Terahertz emission from a femtosecond laser focus in a two-color scheme. JOSA B, Vol. 27 Issue 1, pp.16-26 (2010).
85. Nazarov M., Sapozhnikov D., Mankova A., Fedulova E., Volodin V., Minaeva V., Minaev B., Baryshnikob G. Chrekasova O. Vibrational spectra of corticosteroid hormones in THz range. Proceeding of SPIE . 2010. Vol 7376-7.
86. Cherkasova O. P., Nazarov M. M., Mankova A. A., Fedulova E. V., Shkurinov A. P., Volodin V. A., Minaeva V. A., Minaev B. F., Baryshnikov G. V. Low-frequency vibrational spectra of testosterone, estradiol and estriol. Вестник Черкасского Университета, Серия "Химические науки", выпуск 175, С. 28-33, 2010.
87. Черкасова О., Володин В., Минаева В., Минаев Б., Барышников Г. Температурная динамика низкочастотных спектров комбинационного рассеяния света прогестерона, 17ОР-гидроксипрогестерона и кортизона. Вестник НГУ. Серия Физика. 2010. Т.5, №4.
88. Смирнова И., Федулова Е., Назаров М., Черкасова О. Структурно-чувствительные изменения в спектрах терагерцового поглощения ряда кортикостероидных гармонов. Вестник НГУ. Серия Физика. 2010. Т.5, №4.
89. Popov A.P., Zvyagin A.V., Lademann J., Roberts M.S., Sanchez W., Priezzhev A.V., Myllylä R. Designing inorganic light-protective skin nanotechnology products. J. Biomed. Nanotech., v.6, № 5, с. 432-451 (2010).
90. Popov A.P., Zvyagin A.V., Roberts M.S., Sanchez W., Lademann J., Priezzhev A.V., Myllylä R. Sunscreen nanoparticles: localization in human skin, UV protection, phototoxicity. J. Series on Biomech, v.25, №1-2, p. 199-202 (2010).
91. Bass L.P., Nikolaeva O.V., Kuznetsov V.S., Bykov A.V., Priezzhev A.V. Parallel algorithms for simulation of ultrashort pulse propagation in turbid media. Nouvo Cimento C, v.31C, №1, с.39-46 (2010).
92. Переведенцева Е.В., Су Ф.-И., Су Т.-Х., Лин И.-Ч., Ченг Ч.-Л., Карменян А.В., Приезжев А.В., Луговцов А.Е. Лазерно-оптическое исследование воздействия наночастиц алмаза на структуру и функциональные свойства белков. Квантовая электроника, т.40, №12, с. 1089-1093 (2010).
93. Приезжев А.В., Быков А.В., Мюллюля Р.А. Применение лазеров в науках о жизни. Квантовая электроника, т.40, №12, с. 51-52 (2010).
94. Никитин С.Ю, Луговцов А.Е., Приезжев А.В. К проблеме видности интерференционной картины в лазерной дифрактометрии эритроцитов. Квантовая электроника, т.40, №12, с. 1074-1076 (2010).
95. Bakhtizin R.Z., Oreshkin A.I., Murugan P., Kumar V., Sadowski J.T., Fujikawa Y., Kawazoe Y., Sakurai T., Initial stage of the adsorption of fluorofullerene molecules on Si Surface, JETP Letters, Vol. 92, No. 7, pp. 449–452, (2010).
96. Bakhtizin R.Z., Oreshkin A.I., Murugan P., Kumar V., Sadowski J.T., Fujikawa Y., Kawazoe Y., Sakurai T., Adsorption and electronic structure of single C60F18 molecule on Si(111)-7×7 surface, Chemical Physics Letters, 482, 307-311, (2009).
97. Muzychenko D. A., Savinov S.V., Mantsevich V.N., Maslova N.S., Panov V.I., Schouteden K., Van Haesendonck C., Low-temperature scanning tunneling microscopy and spectroscopy of spatial oscillations in the density of states near domain boundaries at the Ge(111)2x1 surface, Phys.Rev.B, 81, 035313 (2010)
98. Mantsevich V. N., Maslova N. S., Spatial effects of Fano resonaance in local tunneling conductivity in vicinity of impurity on semiconductor surface, Письма в ЖЭТФ, 91, 3, 150 (2010)

Тезисы докладов, публикации в трудах конференций и публикации в электронных изданиях

1. Балахнина И.А., Брандт Н.Н., Ребрикова Н.Л., Чикишев А.Ю. Идентификация свинцовых белил на иконе XVIII века "Евангелист Марк" методом лазерной КР спектроскопии. 3-я Высшая Лазерная Школа "Современные проблемы лазерной физики", Программа и аннотация докладов, Образовательный центр "Вятичи", Московская область, Россия, 2009, с.24.
2. Сидоров-Бирюков Д.А., Кудинов К.А., Подшивалов А.А., Желтиков А.М. Векторный солитонный самосдвиг частоты в фотонно-кристаллическом световоде. IV Российский семинар по волоконным лазерам (Ульяновск 19-21 апреля 2010 года), Тезисы докладов, стр. 63 (Устный).
3. Громченко А. А., Запуниди С. А., Антонов Д. В., Паращук Д. Ю. Узкозонные полиселенофены для солнечных фотоэлементов, Пятая Всероссийская Каргинская Конференция «Полимеры — 2010», Москва, 21-25 июня 2010, С3-36
4. Запуниди С.А., Антонов Д.В.. Новые узкозонные полимеры на основе селенофенов для органических солнечных батарей. Седьмая всероссийская научная молодежная школа с международным участием "Возобновляемые источники энергии", материалы конференции, Москва, 2010, с.37.
5. Романовский Ю. М., Тихонов А. Н. Молекулярные преобразователи энергии живой клетки. Протонная АТР-синтаза – наноразмерный вращающийся молекулярный мотор-генератор. Пленум Научного Совета РАН по Биологической Физике: Биофизика и нанотехнологии. Проблемы и перспективы, Пущино, Россия, 2010 (полный текст доклада будет опубликован в спецвыпуске журнала «Биофизика», 2011).
6. Приезжев А.В., Луговцов А.Е., Ионова В.Г., Ченг Ч.-Л., Переведенцева Е.В. Взаимодействие наночастиц алмаза с компонентами крови: к проблеме нанобезопасности. Пленум Научного Совета РАН по Биологической Физике: Биофизика и нанотехнологии. Проблемы и перспективы, Пущино, Россия, 2010 (полный текст доклада будет опубликован в спецвыпуске журнала «Биофизика», 2011).
7. Иванов К.А., Урюпина Д.С., Волков Р.В., Савельев А.Б., Брантов А.В., Быченков В.Ю., Ерёмин Н.В., Пасхалов А.А. Взаимодействие лазерного импульса суб-релятивистской интенсивности с микроструктурированной поверхностью жидкого металла. Тезисы докладов 8-го Российского Симпозиума Проблемы Физики Ультракоротких Процессов в Сильнонеравновесных Средах, 23 июля – 1 августа, 2010, Новый Афон, Абхазия, с. 19.
8. Stremoukhov S.Yu., Andreev A.V. Terahertz radiation emission by a single atom interacting with two-color laser field. book of abstracts of the International conference “Fundamentals of Laser Assisted Micro- and Nanotechnologies” (FLAMN-10), p.137, (2010).
9. Andreev A.V., Stremoukhov S.Yu., Shoutova O.A., High optical harmonic generation by a single atom interacting with two-color laser field, book of abstract of International Conference on Coherent and Nonlinear optics (ICONO 2010), ITuE4, (2010).
10. Balakhnina I.A., Brandt N.N., Chikishev A.Yu., Kimberg J.S., Rebrikova N.L. Optical spectroscopy of Russian icons painted with lead white. Book of abstracts, ICONO/LAT 2010, Kazan, Russia, August 23-26, 2010, p.LTuN6.
11. Balakhnina I.A., Brandt N.N., Chikishev A.Yu., Kimberg J.S., Rebrikova N.L. Optical spectroscopy of paper modifications upon aging and foxing formation. Book of abstracts, ICONO/LAT 2010, Kazan, Russia, August 23-26, 2010, p.LMI2.
12. Gordienko V.M., Panchenko V.Ya., Platonenko V.T., Podshivalov A.A., Zheltikov A.M., Multi-TW-class subpicosecond laser system: design and performance. Intern. Conf. ICONO/LAT-2010, Abstracts Kazan, Russia.
13. Fedotov A.B., Voronin A.A., Fedotov I.V., Savvin A.D., Lanin A.A., .Sidorov-Biryukov D.A, Serebryannikov E.E., Zheltikov A.M. Ultrafast nonlinear optics with nanomanaged fibers. The International Conference on Coherent and Nonlinear Optics, The Lasers, Applications, and Technologies (ICONO/LAT-2010) (August 23-27, 2010, Kazan, Russia). Technical Digest, Advanced Lasers and Systems, p. 7 (2010).
14. Kudinov K.A., Sidorov-Biryukov D.A., Voronin A.A., Podshivalov A.A., Fedotov A.B., Zheltikov A.M.. Ultrashort Pulses Synthesizer by Polarization-Controlled Interference of Optical Solitons. The International Conference on Coherent and Nonlinear Optics, The Lasers, Applications, and Technologies (ICONO/LAT-2010) (August 23-27, 2010, Kazan, Russia). Technical Digest, YS-School, p. 1 (2010).
15. Lanin A.A., Fedotov I.V., Sokolov V.I., Fedotov A.B., Akhmanov A.S., Panchenko V.Ya., Zheltikov A.M.. Ultrafast broadband optical switching in the infrared with a fluorinated polymer. The International Conference on Coherent and Nonlinear Optics, The Lasers, Applications, and Technologies (ICONO/LAT-

2010) (August 23-27, 2010, Kazan, Russia). Technical Digest, Laser-Assisted Micro- and Nanotechnologies, p. 18 (2010).

16. Zheltikov A.M.. Ultrafast photonics with bespoke soliton sources. The International Conference on Coherent and Nonlinear Optics, The Lasers, Applications and Technologies (ICONO/LAT-2010) (August 23-27, 2010, Kazan, Russia). Technical Digest, Fundamentals of Nonlinear Optics and Novel Phenomena, p. 20 (2010).
17. Gordienko V.M., Panchenko V.Ya., Platonenko V.T., Podshivalov A.A., Zheltikov A.M.. Multi-TW-class 10μm subpicosend laser system: design and performance. The International Conference on Coherent and Nonlinear Optics, The Lasers, Applications, and Technologies (ICONO/LAT-2010) (August 23-27, 2010, Kazan, Russia). Technical Digest, Advanced Lasers and Systems p. 25 (2010).
18. Voronin A.A., Gordienko V.M., Platonenko V.T., Panchenko V.Ya., Zheltikov A.M.. Ionization-assisted guided-wave pulse compression to extreme peak powers and single-cycle pulse widths in the mid-infrared. The International Conference on Coherent and Nonlinear Optics, The Lasers, Applications, and Technologies (ICONO/LAT-2010) (August 23-27, 2010, Kazan, Russia). Technical Digest, Symposium on 25 Years of Chirped-Pulse Amplification, p.2 (2010).
19. Lanin A.A., Fedotov I.V., Savvin A.D., Voronin A.A., Fedotov A.B., Zheltikov A.M. Photonic-crystal fibers for coherent Raman microspectroscopy. The International Conference on Coherent and Nonlinear Optics, The Lasers, Applications, and Technologies (ICONO/LAT-2010) (August 23-27, 2010, Kazan, Russia). Technical Digest, Ultrafast Phenomena and High-Precision Measurements, p. 16 (2010).
20. Doronina-Amitonova L.V., Fedotov I.V., Ivashkina O.I., Zots M.A., Fedotov A.B., Anokhin K.V., Zheltikov A.M.. Fiber-optic probes for in vivo depth-resolved multiplex neuron-activity mapping. The International Conference on Coherent and Nonlinear Optics, The Lasers, Applications, and Technologies (ICONO/LAT-2010) (August 23-27, 2010, Kazan, Russia). Technical Digest, Biophotonics and Laser Biomedicine p. 6 (2010).
21. Balykin V.I., Tarakanov I.S., Vladimirova Yu.V., Yanyshev D.N., Zadkov V.N. Modeling dynamics of atoms in a femtosecond optical dipole trap. Proc. SPIE, Vol. 7993, 7993-40 (2010).
22. Vladimirova Yu. V., Zadkov V. N. Frequency-modulation spectroscopy of coherent dark resonances of multilevel atoms in magnetic field. Proc. SPIE, Vol. 7993, 7993-41 (2010).
23. Balykin V.I., Tarakanov I.S., Vladimirova Yu.V., Yanyshev D.N., Zadkov V.N. Atom femto trap and its application for quantum metrology. ICONO-2010, Kazan, Russia, Technical Digest, IThS1 (2010).
24. Vladimirova Yu.V., Zadkov V.N., Akimov A.V., Samokotin A.Y., Sokolov A.V., Sorokin V.N., Kolachevsky N.N. Spectra of coherent dark resonances obtained by the frequency-modulation spectroscopy. ICONO-2010, Kazan, Russia, Technical Digest, ITuV18 (2010).
25. Yanyshev D.N., Tarakanov I.S., Vladimirova Yu.V., Zadkov V.N. Dynamics of atoms interacting via the radiation field in a periodically switched on/off optical dipole trap. ICONO-2010, Kazan, Russia, Technical Digest, Technical Digest, IThN7 (2010).
26. Lobov A.V., Vladimirova Yu.V., Zadkov V.N. Local enhancement of electromagnetic field produced by a nano-antenna. ICONO-2010, Kazan, Russia, Technical Digest, YSTuE15(2010).
27. Tarakanov I.S., Vladimirova Yu.V., Yanyshev D.N., Zadkov V.N. Atomic dynamics in femtosecond optical trap. ICONO-2010, Kazan, Russia; Technical Digest, YStuE12 (2010).
28. Chekalin S.V., Kompanets V.O., Dormidonov A.E., Smetanina E.O., Kandidov V.P. Supercontinuum conical emission upon filamentation of a femtosecond laser pulse in fused silica. ICONO/LAT 2010 Technical Digest p.57.(August 23-26, 2010), Kazan, Russia.
29. Shlenov S.A., Propagation of Powerful Femtosecond Chirped Pulses in Turbulent Atmosphere: Positioning of Filaments. ICONO/LAT 2010 Technical Digest, p. 72., Kazan, Russia, 2010.
30. Panov N.A., Kosareva O.G., Golovin G.V., Uryupina D.S., Kurilova M.V., Savel'ev A.B., Chin S.L. Compressed pulse generation due to four-wave mixing in femtosecond filament in gases. International Conference on Lasers, Applications, and Technologies 2010 International Conference on Coherent and Nonlinear Optics (ICONO/LAT 2010), Kazan, Russia, August 22 - 26, 2010, Technical Digest on CD ROM, ITuM3 (2010).
31. Savel'ev A., Uruypina D., Panov N., Kosareva O., Kurilova M., Volkov R. Temporal and spectral pulse reshaping under collimated femtosecond laser beam filamentation. International Conference on Lasers, Applications, and Technologies 2010 International Conference on Coherent and Nonlinear Optics (ICONO/LAT 2010), Kazan, Russia, August 22 - 26, 2010, Technical Digest on CD ROM, IWH2 (2010).
32. Kosareva O.G., Panov N.A., Makarov V.A., Perezhogin I.A., Marceau C., Chen Y., Yuan S., Wang T., Zeng H., Savel'ev A.B., Chin S.L. Polarization Rotation Due to Filamentation in Gases. International Conference on Lasers, Applications, and Technologies 2010 International Conference on Coherent and

Nonlinear Optics (ICONO/LAT 2010), Kazan, Russia, August 22 - 26, 2010, Technical Digest on CD ROM, IWH3 (2010).

33. Kosareva O.G., Borodin A.V., Esaulkov M.N., Panov N.A., Andreeva V.A., Makarov V.A., Shkurinov A.P., Volkov R.V., Savel'ev A.B., Marceau C., Liu W., Chin S.L. Analysis of dual frequency interaction in the filament with the purpose of efficiency and polarization control of THz pulse generation. International Conference on Lasers, Applications, and Technologies 2010 International Conference on Coherent and Nonlinear Optics (ICONO/LAT 2010), Kazan, Russia, August 22 - 26, 2010, Technical Digest on CD ROM, IML2 (2010).
34. Dubrovkin A.M., Magnitskii S.A., Nadtochenko V.A. Local light Intensity gaps formed by crystal-structured polymer films. Technical Digest on CD-ROM of the International Conference on Coherent and Nonlinear Optics (ICONO/LAT-2010), Kazan, Russia, 2010, IThO15.
35. Cherniavski V.M., Dubrovkin A.M., Magnitskii S.A. Low-frequency approximation in near-field optics. Technical Digest on CD-ROM of the International Conference on Coherent and Nonlinear Optics (ICONO/LAT-2010), Kazan, Russia, 2010, IThO3.
36. Ezhov A.A., Kozenkov V.M., Magnitskii S.A., Nagorskiy N.M., Panov V.I. Photo-induced motion of azo-dye molecules in solid-state films under the action of surface tension forces. Technical digest on CD-ROM of the International Conference on Coherent and Nonlinear Optics (ICONO/LAT – 2010), Kazan, Russia, 2010, IMK3.
37. Magnitskii S.A., Nagorskiy N.M., Faenov A., Pikuz T., Tanaka M., Kishimoto M., Ishino M., Nishikino M., Fukuda Y., Kando M., Kawachi T., Skobelev I., Kato Y. X-RAY Mirage. Technical digest on CD-ROM of the International Conference on Coherent and Nonlinear Optics (ICONO/LAT – 2010), Kazan, Russia, 2010, LMH6.
38. Golubkov A.A., Makarov V.A. Reconstruction of Tensor Cubic Susceptibility describing Laser Light Self-Action in one-dimensional Inhomogeneous Media with Frequency Dispersion. In: Technical Digest of the XVII International Conference on Coherent and Nonlinear Optics, Kazan, Russia, 2010, ITuA5.
39. Makarov V.A., Perezhogin I.A., Potravkin N.N. Polarization singularities in the cross-section of second harmonic beam generated from the surface of isotropic chiral medium. In: Technical Digest of the XX International Conference on Coherent and Nonlinear Optics, Kazan, Russia, 2010, IThD6.
40. Makarov V.A., Perezhogin I.A., Potravkin N.N. Polarization singularities in the cross-section of sum frequency beam generated by the collinear Gaussian beams in the bulk of isotropic chiral medium. In: Technical Digest of the XX International Conference on Coherent and Nonlinear Optics, Kazan, Russia, 2010, ItuQ41.
41. Kosareva O.G., Borodin A.V., Esaulkov M.N., Panov N.N., Andreeva V.A., Makarov V.A., Shkurinov A.P., Volkov R.V., Savelev A.B., Marceau C., Chen Y., Liu W., Chin S.L. Analysis of dual frequency interaction in the filament with the purpose of efficiency and polarization control of THz pulse generation. In: Technical Digest of the XX International Conference on Coherent and Nonlinear Optics, Kazan, Russia, 2010, IML2.
42. Kosareva O.G., Panov N.N., Makarov V.A., Perezhogin I.A., Marceau C., Chen Y., Liu W., Yuan S., Wang T., Zeng H., Savelev A.B., Chin S.L. Polarization rotation due to filamentation in Gases. In: Technical Digest of the XX International Conference on Coherent and Nonlinear Optics, Kazan, Russia, 2010, IWH3.
43. Makarov V.A.. The birth and development of nonlinear optics. In: Technical Digest of the XX International Conference on Coherent and Nonlinear Optics, Kazan, Russia, 2010, JWA7.
44. Arakcheev V.G., Bagratashvili V.N., Morozov V.B., Olenin A.N., Popov V.K. CARS – diagnostics of strongly compressed and supercritical carbon dioxide. International conference on Coherent and Nonlinear Optics / International Conference on Lasers, Applications and Technologies (ICONO/LAT 2010), August 23- 26, 2010, Kazan, Russia, Technical Digest, p.IMI3 (2010).
45. Arakcheev V.G., Bagratashvili V.N., Morozov V.B., Popov V.K., Valeev A.A.. CARS diagnostics of fluid phase behavior in small mesopores. International conference on Coherent and Nonlinear Optics / International Conference on Lasers, Applications and Technologies (ICONO/LAT 2010), August 23- 26, 2010, Kazan, Russia, Technical Digest, p.IThO21 (2010).
46. Morozov V.B., Olenin A.N., Tunkin V.G., Yakovlev D.V. Thermooptical resonator stability of diode-end-pumped high-peak-power picosecond lasers at tunable repetition rate. International conference on Coherent and Nonlinear Optics / International Conference on Lasers, Applications and Technologies (ICONO/LAT 2010), August 23- 26, 2010, Kazan, Russia, Technical Digest, p.LtuB4 (2010).
47. Parashchuk O. D., Laptinskaya T. V., Bruevich V. V., Sosorev A. Y., Paraschuk D. Y. Conformation changes of MEH-PPV in donor-acceptor blends: towards controlling morphology of organic bulk heterojunctions, International Conference on Coherent and Nonlinear Optics (ICONO 2010)/International Conference on Lasers, Applications, and Technologies (LAT 2010), 23-26 August, 2010, Kazan, Russia, p.ITuU12-69.

48. Trukhanov V. A., Bruevich V. V., Paraschuk D. Y. Effect of doping on the current-voltage characteristics of organic solar cells, International Conference on Coherent and Nonlinear Optics (ICONO 2010)/International Conference on Lasers, Applications, and Technologies (LAT 2010), 23-26 August, 2010, Kazan, Russia 2010, p.ITuZ3-59.
49. Paraschuk D. Y. Conjugated polymer charge-transfer complexes in organic photovoltaics, International Conference on Coherent and Nonlinear Optics (ICONO 2010)/International Conference on Lasers, Applications, and Technologies (LAT 2010), 23-26 August, 2010, Kazan, Russia TuY1-51.
50. Ozimova A. E., Paraschuk O. D., Khlopkin N. A., Lisov D. I., Bruevich V. V., Paraschuk D. Y. Charge-Transfer Complex in Blend of Conjugated Polymer MEH-PPV and Low-Molecular Acceptor Tetracyanoquinodimethane, International Conference on Coherent and Nonlinear Optics (ICONO 2010)/International Conference on Lasers, Applications, and Technologies (LAT 2010) 23-26 August, 2010, Kazan, Russia, 2010, p. ITuU6-69.
51. Ozimova A. E., Godovsky D. Y. Optimizing the materials for Dye Sensitized Solar Cells, International Conference on Coherent and Nonlinear Optics (ICONO 2010)/International Conference on Lasers, Applications, and Technologies (LAT 2010), 23-26 August, 2010, Kazan, Russia, p.ITuU7-69.
52. Kashtanov G. S., Zapunidy S. A., Paraschuk O. D. Estimation of exciton effective delocalization length in conjugated polymers via photoluminescence quenching spectroscopy, International Conference on Coherent and Nonlinear Optics (ICONO 2010)/International Conference on Lasers, Applications, and Technologies (LAT 2010) 23-26 August, 2010, Kazan, Russia, p.ITuU10-69.
53. Gromchenko A. A., Bruevich V. V., Novikov Y. N., Paraschuk D. Y. Exohedral Fullerene Metallocomplexes for Enhanced Open-Circuit Voltage in Polymer Solar Cells, International Conference on Coherent and Nonlinear Optics (ICONO 2010)/International Conference on Lasers, Applications, and Technologies (LAT 2010) 23-26 August, 2010, Kazan, Russia, 2010, p.ITuX4-49.
54. Bruevich V. V., Osotov M. O., Paraschuk D. Y. Thermal Vibrational Disorder of a Conjugated Polymer in Charge-Transfer Complex, International Conference on Coherent and Nonlinear Optics (ICONO 2010)/International Conference on Lasers, Applications, and Technologies (LAT 2010) 23-26 August, 2010, Kazan, Russia, p. ITuZ5-61.
55. Bruevich V. V., Antonov D. V., Gromchenko A. A., Zapunidi S. A., Paraschuk D. Y. Polyselenophene-type polymers for organic solar cells, International Conference on Coherent and Nonlinear Optics (ICONO 2010)/International Conference on Lasers, Applications, and Technologies (LAT 2010), 23-26 August, 2010, Kazan, Russia, p. ITuU4-59.
56. Bolchakov V.V., Ivanov K.A., Uryupina D.S., Savelev A.B., Agranat M.B., Chefonov O.V., Ovchinnikov A.V., Sidorov I.A., Vorobyev A.A., Romanovsky M.Yu., Bychenkov V.Yu., Brantov A.V. Wide intensity range study of femtosecond laser-plasma interaction with plasma of varied spatial extent. Book of abstracts of International Conference on Coherent and Nonlinear Optics (ICONO), Conference on Lasers, Applications, and Technologies (LAT), August 23-26, 2010, Kazan, Russia, p. 26.
57. Shulyapov S., Golovin G. Decay of 14.4 keV 57Fe nuclear state excited with help of plasma created by the femtosecond laser pulse. Book of abstracts of International Conference on Coherent and Nonlinear Optics (ICONO), Conference on Lasers, Applications, and Technologies (LAT), School for Young Scientists and Engineers (ICONO/LAT-SYS), August 23-26, 2010, Kazan, Russia, p. 68.
58. Uryupina D.S., Ivanov K.A., Savelev A.B., Brantov A.V., Bychenkov V.Yu. Relativistic laser-plasma interaction with prepulse generated liquid metal microjets. Book of abstracts of International Conference on Coherent and Nonlinear Optics (ICONO), Conference on Lasers, Applications, and Technologies (LAT), School for Young Scientists and Engineers (ICONO/LAT-SYS), August 23-26, 2010, Kazan, Russia, p. 101.
59. Mamaeva K., Ivanov K. Gamma induced neutron yield from 9Be(g,n+2a) reaction under interaction of femtosecond laser pulse at 10^18 W/cm^2. Book of abstracts of International Conference on Coherent and Nonlinear Optics (ICONO), Conference on Lasers, Applications, and Technologies (LAT), School for Young Scientists and Engineers (ICONO/LAT-SYS), August 23-26, 2010, Kazan, Russia, p. 68.
60. Larkin A.S., Ivanov K.A., Uryupina D.S. Femtosecond laser plasma x-ray micro-source with elliptically tapered glass capillary. Book of abstracts of International Conference on Coherent and Nonlinear Optics (ICONO), Conference on Lasers, Applications, and Technologies (LAT), School for Young Scientists and Engineers (ICONO/LAT-SYS), August 23-26, 2010, Kazan, Russia, p. 69.
61. Sidorov I.A., Savelev A.B., Romanovsky M.Yu., Bychenkov V.Yu., Brantov A.V. Effective generation of collimated ion beams by relativistic laser pulse using 2D microscostructured foils: 3D PIC simulations. Book of abstracts of International Conference on Coherent and Nonlinear Optics (ICONO), Conference on Lasers, Applications, and Technologies (LAT), School for Young Scientists and Engineers (ICONO/LAT-SYS), August 23-26, 2010, Kazan, Russia, p. 90.

62. Belyaeva O.V., Chirkin A.S. Quantum communication network on the basis of coupled optical parametric down-conversion processes. ICONO/LAT 2010, August 23-25, 2010, Kazan, Russia, Technical digest on CD, THN2.
63. Saygin M.Yu., Chirkin A.S., Kolobov M.I. Generation and teleportation of entangled images using multiwave nonlinear optical interactions. August 23-25, 2010, Kazan, Russia, Technical digest on CD, ITHN3.
64. Kulikov V.A., Andreeva M.S., Koriabin A.V., Shmalhausen V.I. Laser beam phase correlation functions measurements for turbulent diagnostic. ICONO/LAT 2010, Kazan, 2010, Technical digest on CD, LMF-4.
65. Gayvoronsky V., Kopylovsky M., Pritula I., Enikeeva V., Ozheredov I., Shkurinov A. Impact of the incorporated TiO2 nanocrystals on the nonlinear response of the KDP single crystal matrix under femtosecond range laser pulses excitation. August 23-25, 2010, Kazan, Russia, Technical digest on CD, IMI6.
66. Nazarov M.M., Ryabov A.Y., Shkurinov A.P., Bezus E.A.THz surface electromagnetic wave – is it really a plasmon? August 23-25, Kazan, Russia, Technical digest on CD, IMH3.
67. Черных И.А., Мамичев Д.А., Роддатис В.В., Занавескин М.Л., Щербаков М.Р., Федянин А.А., Коновко А.А., Новоселова Е.Г., Смирнов И.С., Марченков А.Н. 1D субволновые плазмонные наноструктуры для оптических устройств нового поколения. Материалы VII Международной научно-технической конференции INTERMATIC-2010, часть 2, стр. 7-10 (2010).
68. Федотов А.Б., Тащилина А.Ю., Федотов И.В., Амитонова Л.В., Митрохин В.П., Сидоров-Бирюков Д.А., Иванов А.А., Алфимов М.В., Желтиков А.М.. Оптические системы расширенной функциональности на основе импрегнированных наночастицами микро- и наносветоводных структур. Секция Нанофотоника. Третий международный форум по нанотехнологиям. (Ноябрь 1-3 2010, Москва, Россия). Сборник материалов форума.
69. Федотов А.Б., Желтиков А.М.. Наноуправляемые оптические волокна для сверхбыстрой фотоники. Первый германо-российский симпозиум по наноматериалам – новые горизонты. В рамках Третьего международного форум по нанотехнологиям. (Ноябрь 1-3 2010, Москва, Россия). Сборник материалов форума.
70. Озимова А. Е., Годовский Д. Ю. Новые гибридные наноструктурированные фотоэлектрохимические солнечные батареи, III Международный форум по нанотехнологиям Rusnanotech-2010, Москва, 1-3 ноября. Сборник материалов форума.
71. Андреева В.А., Косарева О.Г., Панов Н.А. Распределение интенсивности терагерцовой эмиссии плазменного канала фемтосекундного филамента. Международный оптический конгресс «Оптика – XXI век», Сборник трудов, 279-282 (2010).
72. Andreeva V.A., Panov N.A. Angular distribution of terahertz radiation from a plasma channel of femtosecond filament. International OSA Network of Students (IONS-8), Book of abstracts, 21 (2010)
73. Panov N.A. Polarization Change Induced by a Femtosecond Laser Filament in Gases. International OSA Network of Students (IONS-8), Book of abstracts, 24-25 (2010).
74. Morozov V.B., Olenin A.N., Tunkin V.G., Yakovlev D.V. High-peak-power pulsed diode-pumped picosecond lasers: basic components and spectral-time characteristics. 14th International Conference on Laser Optics (LO-2010), St.-Petersburg, Russia, Technical Digest, p.TUR1-04, 2010.
75. Ivanov K.A., Uryupina D.S., Volkov R.V., Savelev A.B., Brantov A.V., Bychenkov V.Yu., Paskhalov A.A., Eremin N.V.. Enhancement of hard x-ray yield at interaction of sub-relativistic laser pulse with structured by short prepulse surface of melted gallium target. Technical program of 14th International Conference Laser Optics (LO-2010), June 28 – July 2, 2010, St.Peterburg, Russia, p.23.
76. Vorobiev A.A., Ivanov K.A., Uryupina D.S., Bolshakov V.V., Savelev A.B., Volkov R.VSidorov., I.A., Brantov A.V., Bychenkov V.Yu, Paskhalov A.A. Wide range intensity study of femtosecond laser plasma interaction: electrons heating in sub-relativistic regime. Technical program of 14th International Conference Laser Optics (LO-2010), June 28 – July 2, 2010, St.Peterburg, Russia, p. 45.
77. Besotosni V., Cheshev E., Gorbunkov M., Kostrukov P., Krivonos M., Tunkin V., Jakovlev D. Transverse mode locking in diode end-pumped compact Nd:YAG, ceramic Nd:YAG and Nd:YLF lasers. 14th International Conference on Laser Optics, Technical Program, 2010, p.68.
78. Kulikov V.A., Andreeva M.S., Shmalgauzen V.I. Estimation of turbulence parameters by laser beam phase correlation measurement. Laser Optics 2010, St.Petersburg, Russia, 2010, FrY1-22.
79. Popov A.P., Priezzhev A.V., Lademann J., Myllylä R. Manipulation of light scattering and absorption properties of skin by nanoparticles: a Monte Carlo study. III Евразийкий Конгресс по Медицинской Физике и Инженерии «Медицинская физика-2010», Тезисы, Москва, Россия, 2010.
80. Su T.-H., Su F.-Y., Perevedentseva E., Lin Y.-C., Lugovtsov A., Priezzhev A., Cheng C.-L. Interaction of blood plasma proteins and hemoglobin with nanodiamond of various sizes and surface properties. III

Евразиийский Конгресс по Медицинской Физике и Инженерии «Медицинская физика-2010», Тезисы, Москва, Россия, 2010, p. 417.

81. Bykov A.V., Priezzhev A.V., Myllyla R.A. Determination of size and embedding depth of blood vessels with spatially-resolved diffuse reflection of NIR light. III Евразийский Конгресс по Медицинской Физике и Инженерии «Медицинская физика-2010», Тезисы, Москва, Россия, 2010.
82. Nikitin S.Yu., Lugovtsov A.E., Priezzhev A. V. Оптические методы исследования микрореологических свойст эритроцитов. III Евразийский Конгресс по Медицинской Физике и Инженерии «Медицинская физика-2010», Тезисы, Москва, Россия, 2010, p. 84.
83. Карговский А.В., Нетребко Н.В., Романовский Ю.М. Триггерная модель F1АТФазы в режимах гидролиза и синтеза. Математика. Компьютер. Образование. Дубна, январь 25-30, 2010. Под ред Г.Ю. Ризниченко, РХД Москва-Ижевск, 2010, с.252.
84. Николаев О.Ю., Романовский Ю.М. Взаимная синхронизация автоколебательных систем Хатчинсона. Математика. Компьютер. Образование. Дубна, январь 25-30, 2010. Под ред Г.Ю. Ризниченко, РХД Москва-Ижевск, 2010, с.166.
85. Ivanov K.A., Uryupina D.S., Bolshakov V.V., Volkov R.V., Savelev A.B., Vorobyev A.A., Sidorov I.A., Brantov A.V., Bychenkov V.Yu, Romanov D., Paskhalov A.A., Eremin N.V. Fast electrons generation by sub-relativistic laser pulse acting onto plasma with varied density scalelength. Proceedings of IV International Conference Frontiers of Nonlinear Physics (FNP 2010), July 13 – 20, 2010, Nizhny Novgorod – St.-Petersburg, Russia, p. 173-174.
86. Golovin G., Uryupina D., Volkov R., Savelev A. Nuclear excitation induced by Femtosecond Laser Plasma X-Ray and Corpuscular Emission in External Target. Book of Abstracts of International OSA Network of Students, IONS-8, June 21-25, 2010, Moscow, Russia, p. 40.
87. Vorobiev A.A., Ivanov K.A., Uryupina D.S., Bolshakov V.V., Volkov R.V., Savelev A.B. Experimental investigation of electrons generation under sub-relativistic intensities of pumping laser radiation. Abstracts of 8th Workshop Complex Systems of Charged Particles and Their Interaction With Electromagnetic Radiation, April 14-16, 2010, Moscow, Russia
88. Sidorov I.A., Savelev A.B., Romanovsky M.Yu., Bychenkov V.Yu., Brantov A.V., Romanov D.V. Effective generation of collimated ion beams by relativistic laser pulse using 2D miscrostructured foils: 3D PIC simulations. Abstracts of 8th Workshop Complex Systems of Charged Particles and Their Interaction With Electromagnetic Radiation, April 14-16, 2010, Moscow, Russia
89. Savelev A.B., Ivanov K.A., Uryupina D.S., Bolshakov V.V., Volkov R.V., Vorobyev A.A., Sidorov I.A., Brantov A.V.,.Bychenkov V.Yu., Paskhalov A.A., Eremin N.V. Study of hot electron production in wide range of femtosecond laser pulse intensities from moderate to relativistic. Abstracts of 8th Workshop Complex Systems of Charged Particles and Their Interaction With Electromagnetic Radiation, April 14-16, 2010, Moscow, Russia.
90. Сидоров И.А., Романовский М.Ю., Савельев А.Б., Быченков В.Ю., Брантов А.В., Романов Д.В. Эффективная генерация ионных пучков релятивистским лазерным импульсом с использованием микроструктурированных фольг: 3Dмоделировании. Седьмой Международный научный семинар Математические Модели и Моделирование в Лазерно-Плазменных Процессах, 27-30 января, 2010, Москва, Россия.
91. Савельев А.Б., Урюпина Д.С., Иванов К.А., Большаков В.В., Волков Р.В., Воробьев А.А., Сидоров И.А., Романовский М.Ю., Брантов А.В., Быченков В.Ю., Еремин Н.В., Пасхалов А.А.Изучение генерации горячих электронов в диапазоне интенсивности фемтосекундного лазерного импульса от умеренной до релятивистской. Седьмой Международный научный семинар Математические Модели и Моделирование в Лазерно-Плазменных Процессах, 27-30 января, 2010, Москва, Россия.
92. Басс Л.П., Николаева О.В., Кузнецов В.С., Быков А.В., Приезжев А.В. Параллельный алгоритм моделирования распространения излучения импульсного лазера в сильно рассеивающей среде. IV Международная конференция «Параллельные Вычислительные Технологии» (ПаВТ-2010), Тезисы на CD, Уфа, Россия, 2010.
93. Priezzhev A.V., Lauri J., Bykov A.V. and Myllylä R. Simultaneous imaging of contraction and streaming dynamics in a strand of Physarum polycephalum with Doppler Optical Coherence Tomography. International Symposium "Biological Motility: from Fundamental Achievements to Nanotechnologies", Abstracts, Pushchino, Russia, 2010.
94. Nikitin S.Yu., Lugovtsov A.E., Priezzhev A. V. Theoretical and practical aspects of laser diffractometry of red blood cells. Symposium on Laser Medical Applications (Part of Laser Optics-2010), Abstracts, Moscow, Russia, 2010, p. 31.
95. Priezzhev A.V. Approaches to optical imaging of blood vessels of different sizes. XIV International School for Young Scientists and Students on Optics, Laser Physics & Biophotonics – Saratov Fall Meeting (SFM-2010), Saratov, Russia, 2010.

96. Samsonova J.S., Priezzhev A.V., Petrova G.P., Fedorova K.V. Investigation of interaction of albumin molecules with Diamond Nanoparticles in aqueous solution by dynamic light scattering. XIV International School for Young Scientists and Students on Optics, Laser Physics & Biophotonics – Saratov Fall Meeting (SFM-2010), Saratov, Russia, 2010.
97. Gibizova V.V., Petrova G.P., Sergeeva I.A., Priezzhev A.V. Interaction of albumin molecules with gold nanoparticles in water solutions by photon correlation spectroscopy. XIV International School for Young Scientists and Students on Optics, Laser Physics & Biophotonics – Saratov Fall Meeting (SFM-2010), Saratov, Russia, 2010.
98. Golovin G., Uryupina D., Volkov R., Savelev A. Registration of 14.4 keV 57Fe conversional decay after excitation induced with the help of plasma created by the powerful femtosecond laser pulse. AIP Conference Proceedings: LEI 2009, v.1228, p. 86 (2010)
99. Andreev A.V., Stremoukhov S.Yu., Shoutova O.A. Theory of Multilevel Atom Ionization. AIP Conference Proceedings LEI 2009, v.1228, p. 92-111 (2010).
100. Andreev A.V., Stremoukhov S. Yu. Coherent control of harmonic generation in two-color laser field. book of abstracts of the 19th International Laser Physics Workshop (LPHYS'10) p.238 (2010).
101. Balakhnina I.A., Brandt N.N., Chikishev A.Yu., Kimberg J.S., Rebrikova N.L. Spectroscopic diagnostics of Russian icons painted with lead white. Book of abstracts, 19th International Laser Physics Workshop LPHYS'10, Foz do Iguasu, Brazil, 2010, p.439.
102. Balakhnina I.A., Brandt N.N., Chikishev A.Yu., Kimberg J.S., Sakodynskaya I.K. Vibrational spectroscopy of the structural changes in protein aminogroups models upon interaction with crown ether. Book of abstracts, 19th International Laser Physics Workshop LPHYS'10, Foz do Iguasu, Brazil, 2010, p.136.
103. Sidorov-Biryukov D.A., Kudinov K.A., Voronin A.A., Podshivalov A.A., Fedotov A.B., Zheltikov A.M. Fiber soliton synthesizer of ultrashort pulses 19th Laser Physics workshop. Foz do Iguaçu, Brazil. July 5-9, 2010. Book of abstracts, p.542 .
104. Kosareva O.G., Panov N.A., Golovin G.V., Uryupina D.S., Kurilova M.V., Savel'ev A.B., Makarov V.A., Perezhogin I.A., Marceau C., Chen Y., Yuan S., Wang T., Zeng H., Chin S.L. Four-wave mixing in femtosecond light filaments in gases. 19th International Laser Physics Workshop (LPHYS'10), July 5 – 9, 2010, Foz do Iguacu, Brazil. Book of abstracts, 226 (2010).
105. Makarov V.A., Perezhogin I.A., Potravkin N.N. Polarization singularities in non-uniformly polarized signal beam reflected from the surface of chiral medium in three-wave mixing process. Book of Abstracts of 19th International Laser Physic Workshop (LPHYS'10), Foz do Iguacu, Brazil, 2010, p. 227.
106. Balakhnina I.A., Brandt N.N., Chikishev A.Yu., Kimberg J.S., Sakodynskaya I.K. Vibrational spectroscopy of the structural changes in protein aminogroups models upon interaction with crown ether. XIX International Laser Physics Workshop LPHYS-10 (Foz do Iguasu, Brazil), July 5-9, 2010, Book of Abstracts, p.136.
107. Priezzhev A.V., Lugovtsov A.E., Ionova V.G., Perevedentseva E., Cheng C.L. Interaction of nanodiamonds with red blood cells and its effect on blood microrheologic parameters: assessment with different laser techniques. International Laser Physics Workshop (LPHYS_2010), Abstracts на CD, Foz do Iguacu, Brazil, 2010.
108. Andreev A.V., Borodin A.V., Esaulkov M.N., Nazarov M.M., Shkurinov A.P., Stremoukhov S.Yu., THz Emission from a Femtosecond Laser Focus in a Bicolor Scheme in the Ionization-free Regime. book of abstract of 35th International Conference on Infrared, Millimeter and Terahertz wave (IRMMW-THz 2010), Tu-C3.3, (2010).
109. Nazarov M. Angeluts A.A. Shkurinov A.P. Coutaz J.-L. THz surface plasmon reflection on a corrugated metal surface. IRMMW-THz2010 Rome, September 5-10, 2010, TECHNICAL DIGEST on CD, We-P.46.
110. Nazarov M., Shkurinov A.P., Ryabov A.Y., Bezus E.A. Field localization of a broadband THz surface Plasmon. IRMMW-THz2010 Rome, September 5-10, 2010, TECHNICAL DIGEST on CD, We-P.47.
111. Andreev A. V., Stremoukhov S. Yu. High order optical harmonic generation in two-color laser field. Book of abstracts of the European Optical Society Annual Meeting (EOSAM 2010), TOM6_3336_10, (2010).
112. Gordienko V.M., Platonenko V.T. Powerful picosecond 10 m laser radiation in gaseous and cluster media: pulse duration control, particle acceleration and nuclear excitation, Intern. Confer. Superstrong fields in plasmas, Abstrsacts, Varenna, Italy, 2010, Thu/I-2.
113. Ivanov K.A., Uryupina D.S., Volkov R.V., Savelev A.B., Brantov A.V., Bychenkov V.Yu., Paskhalov A.A., Eremin N.V. Enhanced femtosecond laser-plasma x-ray source utilizing microstructured liquid metal target. Technical Program of Fourth International Conference on Superstrong Fields in Plasma 2010, October 3 – 9, 2010, Villa Monastero, Varenna, Italy.

114. Zheltikov A.M Ultrafast guide-wave photonics: Coloful ways to tailor ultrashort optical field waveforms. The 40th Winter Colloquium on the Physics of Quantum Electronics, January 3-7, 2010, Snowbird, Utah, USA. Technical Digests, p.278.
115. Fedotov A.B., Zheltikov A.M. Photonic-crystal fibers in ultrafast optical science (Invited) The 6th Asian Conference on Ultrafast Phenomena (ACUP'2010) Taipei, Taiwan. January 10-13, 2010. Proceedings for ACUP Abstracts P.50
116. Fedotov A.B., Zheltikov A.M. Tailored soliton sources for ultrafast optical science (Invited) XIII International Conference on Quantum Optics and Quantum Information (ICQOQI'2010) Kyiv, Ukraine May 28 -June 01, 2010 Book of Abstract P.18.
117. Doronina-Amitonova L.V., Fedotov I.V., Ivashkina O.I., Zots M.A., Fedotov A.B., Anokhin K.V., Zheltikov A.M. Fiber-optic solution for in vivo neuron-activity mapping, Laser Application in Life Sciences (LALS-2010) 9-11 June 2010, Oulu, Finland. Technical Digest, p. 124 (2010)
118. Makarov V.A, Perezhogin I.A., Potravkin N.N.. Spectroscopic features of polarization singularities in second harmonic beam generated from the surface of isotropic chiral medium. In: Book of abstracts of IX International conference on "Laser Application in Life Sciences". Finland, Oulu, 2010, p. 218.
119. Brandt N.N., Chichigina O.A., Chikishev A.Yu., and Sakodynskaya I.K. Laser Spectroscopy and Computer Simulation of the Effect of Solvent Molecules on Protein Dynamics and Function. International Conference on Laser Applications in Life Sciences (LALS 2010), June 9-11, 2010, Oulu, Finland, Book of Abstracts, p. 178.
120. Mankova A.A., Brandt N.N., Nazarov M.M., THz absorption of alpha-chymotrypsin in various solvents. International Conference on Laser Applications in Life Sciences (LALS 2010), June 9-11, 2010, Oulu, Finland, Book of Abstracts, p. 257.
121. Priezzhev A.V., Lugovtsov A.E., Ionova V.G., Perevedentseva E.V., Cheng C.-L. Laser assessment of the effect of diamond nanoparticles on deformability and aggregation of red blood cells in vitro. International Conference on Laser Applications in Life Sciences (LALS-2010), Abstracts, Oulu, Finland, 2010, p. 32.
122. Lin Y.-C., Su F.-Y., Perevedentseva E.V., Su T.-H., Ye Y.-S., Lugovtsov A., Priezzhev A., Karmenyan A., Cheng C.-L. Nanodiamond interaction with human red blood cells: the microspectroscopic point of view. International Conference on Laser Applications in Life Sciences (LALS-2010), Abstracts, Oulu, Finland, 2010, p. 65.
123. Perevedentseva E.V., Chatterjee A., Lee C.-Y., Chiang I-T., Su F.-Y., Lin Y.-C., Cheng T.-H., Su C.-Y., Ye, Karmenyan A., Priezzhev A. and Cheng C.-L. Spectroscopic investigation of nanodiamond influence on the structures and functions of biological objects. International Conference on Laser Applications in Life Sciences (LALS-2010), Abstracts, Oulu, Finland, 2010, p. 262.
124. Lugovtsov A.E., Priezzhev A.V., Nikitin S.Yu. Diffraction and scattering of laser beam on red blood cells as basis for laser diffractometry and aggregometry techniques. International Conference on Laser Applications in Life Sciences (LALS-2010), Abstracts, Oulu, Finland, 2010, p. 244.
125. Bykov A.V., Popov A.P., Prykäri T., Priezzhev A.V., and Myllylä R. Skin phantoms with realistic vessel structure for OCT and photoacoustic measurements. International Conference on Laser Applications in Life Sciences (LALS-2010), Abstracts, Oulu, Finland, 2010, p. 228.
126. Zheltikov A.M. Nonlinear-optical Spectroscopy of fast-ionizing media: from the nanosecond to attosecond time scale. The 9th European Conference on Nonlinear Optical Spectroscopy, 29th European CARS Workshop, June 21-23, 2010, Bremen, Germany. Book of Abstract, p.22.
127. Voronin A.A., Zheltikov A.M. Ionization penalty in nonlinear-optical bioimaging. The 9th European Conference on Nonlinear Optical Spectroscopy, 29th European CARS Workshop, June 21-23, 2010, Bremen, Germany. Book of Abstract, p56
128. Voronin A.A., Savvin A.D., Lanin A.A., Sidorov-Biryukov D.A., Fedotov A.B., Zheltikov A.M., Soliton self-frequency shift for fiber-based CARS. The 9th European Conference on Nonlinear Optical Spectroscopy, 29th European CARS Workshop, June 21-23, 2010, Bremen, Germany. Book of Abstract, p.67.
129. Arakcheev V.G., Morozov V.B., Olenin A.N., Valeev A.A.. Critical and non-critical nature of compressed carbon dioxide spectral behavior. 9th European Conference on Nonlinear Spectroscopy ECONOS'2010 and 29th European CARS Workshop 2010, 21-23 June, Bremen, Germany, Book of abstracts, p.C11 (2010).
130. Arakcheev V.G., Bagratashvili V.N., Morozov V.B., Popov V.K., Valeev A.A. Spectroscopic diagnostics of molecular media phase behavior under nanoporous confinement. 9th European Conference on Nonlinear Spectroscopy ECONOS'2010 and 29th European CARS Workshop 2010, 21-23 June, Bremen, Germany, Book of abstracts, p.C22 (2010).

131. Fedotov A.B, Voronin A.A., Fedotov I.V., Savvin A.D., Lanin A.A., Zheltikov A.M.. Photonic-crystal fibers for coherent Raman microspectroscopy. 18th International Conference on Advanced Laser Technologies, Egmond aan Zee, Netherlands, September 11 – 16, Book of Abstracts, p.113 (2010).
132. Makarov V.A. Creation of polarization singularities by regular Gaussian beams in nonlinear optics. Book of Abstracts of 18th International Conference on Advanced Laser Technologies (ALT'10). Edmond aan Zee, the Netherlands, p. 118. (2010).
133. Priezzhev A.V., Obolensky I.S., Gurfinkel Yu.I., Bykov A.V., Myllyla R. Optical imaging of blood flows and blood vessels. International Conference on Advanced Laser Technologies (ALT-2010), Abstracts, Egmond aan Zee, The Netherlands,2010, p. 93.
134. Vladimirova Yu. V., Zadkov V. N., Akimov A. V., Samokotin A. Y., Sokolov A. V., Sorokin V. N., Kolachevsky N. N. Frequency-modulation high-precision spectroscopy of coherent dark resonances in magnetic field. Proc. SPIE, Vol. 7727, 77270F1-7710F16 (2010).
135. Popov A.P., Zhao X., Zvyagin A., Lademann J., Roberts M., Sanchez W., Priezzhev A.V., and R. ZnO and TiO2 particles: study of nanosavety and photoprotection. SPIE Photonics Europe, Conf. 7715: Biophotonics: Photonic Solutions for Better Health Care. Proc. SPIE, v.7715, p.77153G (2010).
136.
137. Lauri J., Bykov A.V., Priezzhev A.V. and Myllylä R. Effect of light scattering superficial layer on the accuracy of flow velocity profiles. SPIE Photonics Europe, Conf. 7715: Biophotonics: Photonic Solutions for Better Health Care. Proc. SPIE, v.7715, p.77152L (2010).
138. Vladimirova Yu. V., Zadkov V. N., Akimov A. V., Samokotin A. Y., Sokolov A. V., Sorokin V.N., Kolachevsky N. N. Modulation spectroscopy of coherent dark resonances at the Zeeman sublevels of the transition 52S1/2(F = 2) - 52P1/2(F = 1) in 87Rb. 450 WE-Heraeus-Seminar «Mixed States of Light and Matter» BadHonef, Germany, (2010).
139. Zadkov V. N. Laser spectroscopy of coherent dark resonances: At the edge of fundamental physics towards real-word applications. AvH, Vilnius, 2010.
140. Balykin V.I., Tarakanov I.S., Vladimirova Yu.V., Yanyshev D.N., Zadkov V.N. Atom femto trap and its application for quantum metrology. Book of abstracts of First Chinese-Russian Laser Physics Symposium, Tianjin, China, 2010.
141. Zadkov V.N. Spectroscopy of coherent dark resonances: Physics and applications. Book of abstracts of First MSU-ECL de Lyon Workshop, p. 7, Lyon, France, (2010).
142. Dormidonov A.E., Chekalin S.V., Kompanets V.O., Smetanina E.O., Kandidov V.P. Interference effects in conical emission formation of femtosecond laser filament in fused silica. 3-rd International Symposium on Filamentation, 31 May-05 June 2010, Crete, Greece, Book of Abstracts, p. 153-154.
143. Silaeva E.P., Shlenov S.A., Kandidov V.P. Multifilamentation of high-power femtosecond laser pulse in aerodisperse turbulent atmosphere. 3rd International Symposium on Filamentation, 31 May-05 June 2010, Crete, Greece, Book of abstracts, p. 121.
144. Shlenov S.A., Kandidov V.P. Femtosecond laser filamentation in turbulent atmosphere. 3rd International Symposium on Filamentation, 31 May-05 June 2010, Crete, Greece, Book of abstracts, p.34-35.
145. Fedorov V.Yu., Kandidov V.P., Kosareva O.G., Tverskoy O.V., Chin S.L. What is a dynamical balance of nonlinearities in a filament? 3rd International Symposium on Filamentation, 31 May-05 June 2010, Crete, Greece, Book of abstracts, p.107-108.
146. Kosareva O.G., Panov N.A., Makarov V.A., Perezhogin I.A., Savel'ev A.B., Marceau C., Chen Y., Chin S.L. Polarization Rotation Induced by a Femtosecond Laser Filament in Gases. 3rd International Symposium on Filamentation, Capsis Elite Resort, Crete, Greece, 31 May - 05 June 2010, Book of abstracts, 28-29 (2010).
147. Uruypina D., Kurilova M., Panov N., Volkov R., Kosareva O., Savel'ev A., Chin S.L. Few Cycle Optical Pulse Production from Collimated Femtosecond Laser Beam Filamentation. 3rd International Symposium on Filamentation, Capsis Elite Resort, Crete, Greece, 31 May - 05 June 2010, Book of abstracts, 167-168 (2010).
148. Chekalin S.V., Dormidonov A.E., Kompanets V.O., Smetanina E.O., Skopina O.V. Kandidov V.P., Interference effects in supercontinuum conical emission upon filamentation of a femtosecond laser pulse in condensed matter. 2 nd International Workshop on Laser-Matter Interaction 2010, Book of Abstracts, p. 19, Septebmber 13-17, 2010, Porquerolles, France, (2010).
149. Kosareva O.G., Panov N.A., Makarov V.A., Perezhogin I.A., Marceau C., Chen Y., Yuan S., Wang T., Zeng H., Savel'ev A., Chin S.L. Polarization Rotation due to Femtosecond Filamentation in an Atomic Gas. 2nd International Workshop on Laser-Matter Interaction 2010, September 13-17, 2010, Porquerolles, France. Book of abstracts, 16 (2010).

150. Gromchenko A. A., Zapunidi S. A., Bruevich V. V., Khlopkin N. A., Dyakov V. A., Gvozdkova I. A., Tsikalova M. V., Novikov Y. N., Paraschuk D. Y. Metallocomplexes of fullerenes for polymer solar cells with enhanced photovoltage, Technologies for Polymer Electronics, TPE-2010, Rudolstadt, Germany, 18-20 May, 2010, Proceedings, vol. 1, p.138-141.
151. Zapunidi S.A., Gromchenko A.A., Bruevich V.V., Tsikalova M.V., Novikov Yu.N., Paraschuk D.Yu.. Nanocomposite Polymer-Fullerene Solar Cells with Increased Photovoltage. 2nd japanese-russian young scientists conference on nano-materials and nano-technology, conference program, Tokyo, Japan, 21-22 September, 2010, p.11.
152. Zapunidi S.A., Gromchenko A.A., Bruevich V.V., Dyakov V.A., Tsikalova M.V., Novikov Yu.N., Paraschuk D.Yu.. Exohedral metallofullerenes for organic solar cells: a way for higher photocurrent and voltage. 9th International Symposium on Functional pi-Electron Systems, Program CD, Atlanta, GA, USA, 23-28 May, 2010, P2-Zapunidi.pdf.
153. Нетребко А.В., Нетребко Н.В. Задача об ударе торца полубесконечной цилиндрической оболочки о поверхность сжимаемой жидкости с учетом торможения торца в процессе удара. Труды Международной научной конференции. Образование, наука и экономика в вузах. Интеграция в международное образовательное пространство. 20 - 25 сентября 2010 г. Плоцк, Польша. С. 427-432.
154. Loskutov A., Chichigina O. and Krasnova A. Anomalous transport in open horizon billiards with oscillating boundaries. Proc. of the International Conference «Dynamics Days Europe 2010, University of Bristol, UK, 6—10 September 2010, p.89-90.
155. Loskutov A., Chichigina O., Krasnova A. Superdiffusion in time-dependent open horizon billiards. Proc. of the International Conference on Chaos and Nonlinear Dynamics « Dynamics Days South America 2010». INPE National Institute for Space Research São José dos Campos, SP, Brazil, July 26-30, 2010.
156. Golovin G., Uryupina D., Volkov R., Savelev A. Secondary Processes Induced by Femtosecond Laser Plasma X-Ray and Corpuscular Emission in External Target. Book of Abstracts of Conference Frontiers in Optics 2010/Laser Science XXVI, October 24-28, 2010, Rochester, USA, p. 58.
157. Golovin G., Uryupina D., Volkov R., Savelev A. Registration of 14.4 keV 57Fe nuclear state excitation induced with the help of plasma created by the powerful femtosecond laser pulse. Book of Abstracts of 66th Scotish Summer School in Physics, SUSSP66, Augoust 11-21, 2010, Edinburgh, Scotland p. 16.
158. Savelev A. Fast electron bunches from femtosecond laser-plasma interaction. Programme and abstracts of Eight International Seminar "Mathematical Models & Modeling in Laser-Plasma Processes Science Technologies", October 2-9, 2010, Petrovac, Montenegro, p. 22.
159. Saygin M.Yu., Chirkin A.S., Kolobov M.I. Teleportation of entangled optical images by coupled parametric processes. Quantum Optics 2010, 6-th – 11-th June, Abstracts, p.3369.
160. V.A.Enikeeva, I.A.Ozheredov, A.P.Shkurinov, V.Ya.Gayvoronsky, I.M.Prytula. Structural and nonlinear-optical properties of KDP crystals doped by anatase nanoparticles. Telc, Czech Republic, May 24 – 28, 2010, Book of Abstracts, p.72.
161. Popov A.P., Priezzhev A.V., Lademann J., Myllylä R. Alteration of skin light scattering and absorption properties by application of sunscreen nanoparticles: a Monte Carlo study. 12th International Conference on Electromagnetic and Light Scattering (ELS-2010), Abstracts, Helsinki, Finland, 2010, p. 242.
162. Savenkov S., Priezzhev A., Oberemok Ye., Osovskyy S., Myllyla R., Tornberg J. Mueller. Polarimetry of paper. NATO Advanced Study Institute on “Special Detection Technique (Polarimetry) and Remote Sensing, Abstracts, Kyiv, Ukraine, 2010, p. 95.
163. Popov A.P., Zvyagin A., Roberts M., Sanchez W., Priezzhev A.V., Lademann J., Myllylä R. Biosafety of sunscreen nanocomponents: An optical study. 16th International School on Quantum Electronics: Laser Physics and Applications, Abstracts, Nesebar, Bulgaria, 2010, p. 96.
164. Lin Y.-C., Su F.-Y., Perevedentseva E., Su T.-H., Lugovtsov A., Priezzhev A., Karmenyan A., Cheng C.-L. Nanodiamond. Effects on the Deformability, Aggregation and Oxygenation of Human Red Blood Cells in vitro: the microrheologic and spectroscopic point of view. 21st European Conference on Diamond, Diamond-Like Materials, Carbon Nanotubes, and Nitrides, Abstracts on CD, Budapest, Hungary, 2010.
165. Lin Y. C., Su F. Y., Perevedentseva E., Su T. H., Chang H. H., Priezzhev A., Cheng C.-L. Interaction of nanodiamond with human blood components. The 4th International Conference on New Diamond and Nano Carbons, Abstracts, Suzhou, China, 2010, p.255.
166. Perevedentseva E., Melnik N., Cai C.-Y., Lin Y.-C., Su F.- Y., Priezzhev A., Lugovtsov A., Kazaryan M., Cheng C.-L. Effect of surface adsorbed proteins on the photoluminescence of nanodiamond. Hasselt Diamond Workshop 2010 SBDD XV, Abstracts, Hasselt, Belgium, 2010, p.100.
167. Su F.Y., Lin Y.C., Cai C.Y., Perevedentseva E., Priezzhev A., Lugovtsov A., Karmenyan A., Cheng C. L., The spectroscopic studies of red blood cells and hemoglobin interact with nanodiamond. Annual Meeting of the Physical Society of R.O.C. Abstracts, Tainan, Taiwan, 2010, p.60.

168. Su T. H., Su F.Y., Perevedentseva E., Priezzhev A., Lugovtsov A., Karmenyan A., Cheng C. L. Infrared spectroscopic study of hemoglobin and blood plasma proteins adsorbed on different sizes nanodiamond. Annual Meeting of the Physical Society of R.O.C., Abstracts, Tainan, Taiwan, 2010, p.119.
169. Lin Y.C., Su F.Y., Tsai L. W., Hsu C. L., Perevedentseva E., Priezzhev A., Lugovtsov A., Karmenyan A., Cheng C. L. The interaction of nanodiamond with red blood cells focus on on their oxygenation and deoxygenation activities. Annual Meeting of the Physical Society of R.O.C., Abstracts, Tainan, Taiwan, 2010, p.161.
170. Tsai L.W., Lin Y.C., Perevedentseva E., Priezzhev A., Lugovtsov A., Karmenyan A., Cheng C.L. Oxygenation and deoxygenation states of red blood cells interacting with nanodiamond at different concentration. 28th Symposium on Spectroscopic Technologies and Surface Sciences, Abstracts, Nantou, Taiwan, 2010, p.39.
171. Bakhtizin R.Z., Oreshkin A.I., Murugan P., Kumar V., Sadowski J.T., Hashizume T., Fukui N., Sakurai T., Site-specific adsorption of fluorofullerene molecules on single crystalline Si surfaces, Proceedings of 18th Int. Symp. "Nanostructures: Physics and Technology", 2010, pp. 139-139.
172. Bakhtizin R.Z., Oreshkin A.I., Murugan P., Kumar V., Sadowski J.T., Hashizume T., Fukui N., Sakurai T., Site-specific adsorption of fluorofullerene molecules on Si surfaces, Proceedings of Int. conference "Seeng at the Nanoscale VIII" (Basel, Switzerland), 2010, p.55.
173. Oreshkin A., Oreshkin S., Maslova N., Mantsevich V., Panov V., The impurity atoms effect on the flicker noise characteristics of the tunneling current from individual InAs(110), Proceedings of Int. conference "Seeng at the Nanoscale VIII" (Basel, Switzerland), 2010, p. 148.
174. Bakhtizin R.Z., Oreshkin A.I., Murugan P., Kumar V., Sadowski J.T., Hashizume T., Fukui N., Sakurai T., Atomic-size investigations and computer diagnostic of nanostructures based on fluorine fullerene molecules, Proceedings of 14 th International Workshop Nanophysics and Nanoelectronics, 2010, pp.22-23.
175. Mantsevich V.N., Maslova N.S., Spatial effects of Fano resonance in local tunneling conductivity in the presence of impurity on semiconductor surface, Proceedings 18th International Symp: Nanostructures: Physics and Technology 2010, , St.-Petersburg, 248-249.
176. Mantsevich V.N., Maslova N.S., Spatial distribution of local tunneling conductivity in vicinity of impurity on semiconductors, Proceedings of 25th International Conference of Physical Students in Graz p. 27, 2010.