

Valeriy Gerasimov

List of Publications by Year in descending order

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47
papers

576
citations

686830

13
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642321

23
g-index

49
all docs

49
docs citations

49
times ranked

477
citing authors

#	ARTICLE	IF	CITATIONS
1	Refractive index sensing with optical bound states in the continuum. <i>Optics Express</i> , 2020, 28, 38907.	1.7	90
2	Electromagnetic density of states and absorption of radiation by aggregates of nanospheres with multipole interactions. <i>Physical Review B</i> , 2004, 70, .	1.1	49
3	Collective lattice resonances in arrays of dielectric nanoparticles: a matter of size. <i>Optics Letters</i> , 2019, 44, 5743.	1.7	47
4	Local anisotropy and giant enhancement of local electromagnetic fields in fractal aggregates of metal nanoparticles. <i>Physical Review B</i> , 2005, 72, .	1.1	43
5	Titanium nitride as light trapping plasmonic material in silicon solar cell. <i>Optical Materials</i> , 2017, 72, 397-402.	1.7	38
6	Refractory titanium nitride two-dimensional structures with extremely narrow surface lattice resonances at telecommunication wavelengths. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	37
7	Engineering mode hybridization in regular arrays of plasmonic nanoparticles embedded in 1D photonic crystal. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 224, 303-308.	1.1	22
8	Collective Lattice Resonances in All-Dielectric Nanostructures under Oblique Incidence. <i>Photonics</i> , 2020, 7, 24.	0.9	19
9	Suppression of surface plasmon resonance in Au nanoparticles upon transition to the liquid state. <i>Optics Express</i> , 2016, 24, 26851.	1.7	18
10	Engineering novel tunable optical high-Q nanoparticle array filters for a wide range of wavelengths. <i>Optics Express</i> , 2020, 28, 1426.	1.7	18
11	Spectroscopic studies of fractal aggregates of silver nanospheres undergoing local restructuring. <i>Journal of Chemical Physics</i> , 2006, 125, 111101.	1.2	17
12	Thermal effects in systems of colloidal plasmonic nanoparticles in high-intensity pulsed laser fields [Invited]. <i>Optical Materials Express</i> , 2017, 7, 555.	1.6	16
13	Plasmonic lattice Kerker effect in ultraviolet-visible spectral range. <i>Physical Review B</i> , 2021, 103, .	1.1	16
14	Surface plasmon resonances in liquid metal nanoparticles. <i>Applied Physics B: Lasers and Optics</i> , 2017, 123, 1.	1.1	12
15	Super-efficient laser hyperthermia of malignant cells with core-shell nanoparticles based on alternative plasmonic materials. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 236, 106599.	1.1	10
16	Mode coupling in arrays of Al nanoparticles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 248, 106961.	1.1	10
17	Multipolar Lattice Resonances in Plasmonic Finite-Size Metasurfaces. <i>Photonics</i> , 2021, 8, 109.	0.9	10
18	The origin of anomalous enhancement of electromagnetic fields in fractal aggregates of metal nanoparticles. <i>Colloid Journal</i> , 2007, 69, 159-169.	0.5	9

#	ARTICLE	IF	CITATIONS
19	Titanium nitride nanoparticles as an alternative platform for plasmonic waveguides in the visible and telecommunication wavelength ranges. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2018, 30, 50-56.	1.0	9
20	General principles of the crystallization of nanostructured disperse systems. <i>Colloid Journal</i> , 2009, 71, 313-328.	0.5	8
21	Optimization of photothermal methods for laser hyperthermia of malignant cells using bioconjugates of gold nanoparticles. <i>Colloid Journal</i> , 2016, 78, 435-442.	0.5	7
22	Plasmonic Enhancement of Local Fields in Ultrafine Metal Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2021, 125, 13900-13908.	1.5	6
23	Thermal degradation of optical resonances in plasmonic nanoparticles. <i>Nanoscale</i> , 2022, 14, 433-447.	2.8	6
24	Simulation of the growth of nanoparticle aggregates reproducing their natural structure in disperse systems. <i>Colloid Journal</i> , 2006, 68, 441-450.	0.5	5
25	Experimental manifestations of the correlation between the local structure of silver nanoparticle aggregates and their absorption spectra. <i>Colloid Journal</i> , 2007, 69, 170-179.	0.5	5
26	Thermal limiting effects in optical plasmonic waveguides. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 191, 1-6.	1.1	5
27	Substrate-mediated lattice Kerker effect in Al metasurfaces. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, C78.	0.9	5
28	Defects of colloidal crystals. <i>Colloid Journal</i> , 2009, 71, 329-339.	0.5	4
29	Physical principles of the formation of a nanoparticle electric double layer in metal hydrosols. <i>Colloid and Polymer Science</i> , 2020, 298, 1-7.	1.0	4
30	Ring of bound states in the continuum in the reciprocal space of a monolayer of high-contrast dielectric spheres. <i>Physical Review B</i> , 2022, 105, .	1.1	4
31	Temperature dependent elastic repulsion of colloidal nanoparticles with a polymer adsorption layer. <i>Colloid and Polymer Science</i> , 2018, 296, 1689-1697.	1.0	3
32	Charge transfer plasmons in the arrays of nanoparticles connected by conductive linkers. <i>Journal of Chemical Physics</i> , 2021, 154, 084123.	1.2	3
33	Effect of defects of plasmon resonance colloidal crystals on their extinction spectra. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2010, 109, 372-378.	0.2	2
34	Thermal effects in systems of colloidal plasmonic nanoparticles in high-intensity pulsed laser fields [Invited]: publisher's note. <i>Optical Materials Express</i> , 2017, 7, 799.	1.6	2
35	Part I. Nanobubbles in pulsed laser fields for anticancer therapy: in search of adequate models and simulation approaches. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 175401.	1.3	2
36	Part II. Nanobubbles around plasmonic nanoparticles in terms of modern simulation modeling: what makes them kill the malignant cells?. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 175402.	1.3	2

#	ARTICLE	IF	CITATIONS
37	Problems of the formation of resource-saving and environmentally oriented system "Agricultural recycling" in the agro-industrial complex. IOP Conference Series: Earth and Environmental Science, 2022, 981, 032003.	0.2	2
38	Spontaneous crystallization of nanocolloids. Doklady Physics, 2009, 54, 51-54.	0.2	1
39	Synthesis and properties of cystaminium salts with d-metal acid and tetrahalide anions. Russian Journal of Inorganic Chemistry, 2013, 58, 559-562.	0.3	1
40	Processes underlying the laser photochromic effect in colloidal plasmonic nanoparticle aggregates. Chinese Physics B, 2020, 29, 037802.	0.7	1
41	THE CONCEPT OF RECYCLING OF AGRICULTURAL MACHINERY AND THE GENERAL PRINCIPLES OF ITS IMPLEMENTATION. TehniĀeskij Servis MaĀin, 2021, 3, 72-81.	0.0	1
42	Kinetics of the crystallization of nanostructured disperse systems. Colloid Journal, 2009, 71, 340-344.	0.5	0
43	Effect of electron tunneling on the crystallization of nanostructured metal sols. Colloid Journal, 2009, 71, 345-352.	0.5	0
44	Variation of extinction spectra of plasmon resonance colloidal crystals upon structural transitions. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2010, 109, 379-382.	0.2	0
45	Evolution of extinction spectra of plasmon resonance nanocolloids in the process of their crystallization. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2010, 109, 383-391.	0.2	0
46	Variations arising in extinction spectra of nanoparticle aggregates upon deformation during deposition on planar dielectric substrate. Colloid Journal, 2011, 73, 206-215.	0.5	0
47	Collective resonances in hybrid photonic-plasmonic nanostructures. Journal of Physics: Conference Series, 2020, 1461, 012046.	0.3	0