Dmitry V Guzatov

List of Publications by Year
in descending order

58	1,749	361413 20	276875 41
papers	citations	h-index	g-index

58	58	58	2350
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Engineering of the Photon Local Density of States: Strong Inhibition of Spontaneous Emission near the Resonant and High-Refractive Index Dielectric Nano-objects. Journal of Physical Chemistry C, 2022, 126, 5691-5700.	3.1	4
2	Determination of pseudo-refractive index in self-assembled ligand layers from spectral shift of surface plasmon resonances in colloidal silver nanoplates. Zeitschrift Fur Physikalische Chemie, 2021, .	2.8	3
3	Photostability enhancement of InP/ZnSe/ZnSeS/ZnS quantum dots by plasmonic nanostructures. Nanotechnology, 2021, 32, 035204.	2.6	11
4	Strong Selective Anti-Stokes Raman Scattering Enhancement in Plasmonics Using Photon Density of States Engineering. Journal of Physical Chemistry C, 2021, 125, 27654-27660.	3.1	5
5	Colloidal Plasmonics for Active Nanophotonics. Proceedings of the IEEE, 2020, 108, 704-720.	21.3	24
6	Plasmon-enhanced fluorescence in gold nanorod-quantum dot coupled systems. Nanotechnology, 2020, 31, 105201.	2.6	29
7	Possible nanoantenna control of chlorophyll dynamics for bioinspired photovoltaics. Scientific Reports, 2019, 9, 7138.	3.3	21
8	Possible Plasmonic Acceleration of LED Modulation for Li-Fi Applications. Plasmonics, 2018, 13, 2133-2140.	3.4	19
9	Plasmonic enhancement of electroluminescence. AIP Advances, 2018, 8, 015324.	1.3	18
10	Loss compensation symmetry in dimers made of gain and lossy nanoparticles. Laser Physics Letters, 2018, 15, 035901.	1.4	5
11	Colloidal Photoluminescent Refractive Index Nanosensor Using Plasmonic Effects. Zeitschrift Fur Physikalische Chemie, 2018, 232, 1431-1441.	2.8	11
12	Colloidal Spherical Silver Nanoparticles Based Plasmon Enhanced Fluorescence for Rapid Quantitative Point-of-Care Testing Fluorescent Immunoassay Development. NATO Science for Peace and Security Series B: Physics and Biophysics, 2018, , 433-434.	0.3	0
13	Spontaneous emission of an optically active molecule near a chiral nanoellipsoid. Physical Review A, 2018, 98, .	2.5	7
14	Size and host-medium effects on topologically protected surface states in bianisotropic three-dimensional optical waveguides. Physical Review B, 2018, 98, .	3.2	4
15	Surface-Enhanced Fluorescence from Polypropylene Substrates. NATO Science for Peace and Security Series B: Physics and Biophysics, 2017, , 537-539.	0.3	0
16	Effect of layered nanostructures on the linewidth of forbidden E2 transitions. Quantum Electronics, 2017, 47, 730-738.	1.0	0
17	Tuning spontaneous radiation of chiral molecules by asymmetric chiral nanoparticles. Optics Express, 2017, 25, 6036.	3.4	7
18	Enhancement of Labeled Alpha-fetoprotein Antibodies and Antigen-antibody Complexes Fluorescence with Silver Nanocolloids. Procedia Engineering, 2016, 140, 57-66.	1.2	14

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19	Radiative and nonradiative spontaneous decay rates for an electric quadrupole source in the vicinity of a spherical particle. Journal of Experimental and Theoretical Physics, 2016, 122, 633-644.	0.9	2
20	Effect of a dimer of nanoparticles on the linewidth of forbidden E2 transitions. Quantum Electronics, 2016, 46, 634-639.	1.0	1
21	Radiative decay of a quantum emitter placed near a metal-dielectric lamellar nanostructure: Fundamental constraints. Physical Review A, 2016, 93, .	2.5	8
22	Spontaneous Radiation of a Chiral Molecule in the Dipole Approximation Near a Layer of Bi-Isotropic Material. Journal of Applied Spectroscopy, 2016, 83, 1-7.	0.7	5
23	Transport of a spherical transparent nanoparticle by radiation forces in the field of a Gaussian laser beam. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2016, 120, 138-142.	0.6	3
24	On radiation forces acting on a transparent nanoparticle in the field of a focused laser beam. Quantum Electronics, 2015, 45, 904-907.	1.0	1
25	Spontaneous decay rate of an excited molecule placed near a circular aperture in a perfectly conducting screen: An analytical approach. Physical Review A, 2015, 91, .	2.5	4
26	Spontaneous emission of a chiral molecule near a cluster of two chiral spherical particles. Quantum Electronics, 2015, 45, 250-257.	1.0	8
27	Focusing of dipole radiation by a negative index chiral layer. 2. A thin layer as compared with the wavelength. Quantum Electronics, 2014, 44, 1112-1118.	1.0	6
28	Eigen oscillations of a chiral sphere and their influence on radiation of chiral molecules. Optics Express, 2014, 22, 18564.	3.4	31
29	Focusing of dipole radiation by a negative index chiral layer. 1. A thick layer as compared with the wavelength. Quantum Electronics, 2014, 44, 873-880.	1.0	6
30	Dipole Spontaneous Emission Near Planar Anisotropic Layers with Hyperbolic Metamaterial Properties. Journal of Applied Spectroscopy, 2014, 81, 488-494.	0.7	0
31	Engineering of Radiation of Optically Active Molecules with Chiral Nano-Meta Particles. , 2014, , 127-183.		1
32	Nonresonant Surface-Enhanced Raman Scattering of ZnO Quantum Dots with Au and Ag Nanoparticles. ACS Nano, 2013, 7, 3420-3426.	14.6	74
33	Spontaneous radiation of a chiral molecule located near a half-space of a bi-isotropic material. Journal of Experimental and Theoretical Physics, 2013, 116, 531-540.	0.9	9
34	The influence of chiral spherical particles on the radiation of optically active molecules. New Journal of Physics, 2012, 14, 123009.	2.9	26
35	Plasmon-enhanced fluorescence of labeled biomolecules on top of a silver sol-gel film. Journal of Nanophotonics, 2012, 6, 061710.	1.0	15
36	Using chiral nano-meta-particles to control chiral molecule radiation. Physics-Uspekhi, 2012, 55, 1054-1058.	2.2	12

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37	Plasmonic Enhancement of Molecular Fluorescence near Silver Nanoparticles: Theory, Modeling, and Experiment. Journal of Physical Chemistry C, 2012, 116, 10723-10733.	3.1	153
38	Enhancement of Raman scattering of light by ultramarine microcrystals in presence of silver nanoparticles. Journal of Raman Spectroscopy, 2012, 43, 741-744.	2.5	18
39	Engineering of radiation of optically active molecules with chiral nano-meta-particles. Europhysics Letters, 2012, 97, 47004.	2.0	34
40	Chiral particles in a circularly polarised light field: new effects and applications. Quantum Electronics, 2011, 41, 526-533.	1.0	21
41	Optical properties of a plasmonic nano-antenna: an analytical approach. New Journal of Physics, 2011, 13, 053034.	2.9	35
42	Plasmon oscillations in ellipsoid nanoparticles: Beyond dipole approximation. Laser Physics, 2010, 20, 85-99.	1.2	26
43	Photoacoustic imaging of living mouse brain vasculature using hollow gold nanospheres. Biomaterials, 2010, 31, 2617-2626.	11.4	289
44	Active magneto-plasmonics in hybrid metalâ€“ferromagnet structures. Nature Photonics, 2010, 4, 107-111.	31.4	450
45	Coupled microsphere clusters for detecting moleculeâ€™s dipole moment orientation. Applied Physics Letters, 2009, 94, 241104.	3.3	10
46	Possible rationale for ultimate enhancement factor in single molecule Raman spectroscopy. Chemical Physics Letters, 2009, 477, 411-414.	2.6	40
47	Acoustic signals generated by laser-irradiated metal nanoparticles. Applied Optics, 2009, 48, C38.	2.1	49
48	Magneto-Optical Manipulation of Surface Plasmons in Gold/Ferromagnetic/Gold Multilayer Films. , 2009, , .		0
49	Theoretical study of the light pressure force acting on a spherical dielectric particle of an arbitrary size in the interference field of two plane monochromatic electromagnetic waves. Quantum Electronics, 2008, 38, 1155-1162.	1.0	6
50	Spontaneous emission of an atom placed near a nanobelt of elliptical cross section. Physical Review A, 2007, 75, .	2.5	8
51	Optical properties of an atom in the presence of a two-nanosphere cluster. Quantum Electronics, 2007, 37, 209-230.	1.0	31
52	Strongly localized plasmon oscillations in a cluster of two metallic nanospheres and their influence on spontaneous emission of an atom. Physical Review B, 2007, 75, .	3.2	55
53	Plasmonic atoms and plasmonic molecules. Applied Physics A: Materials Science and Processing, 2007, 89, 305-314.	2.3	41
54	Radiative decay engineering by triaxial nanoellipsoids. Chemical Physics Letters, 2005, 412, 341-346.	2.6	55

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55	Frequency shift of radiation of an atom near a cluster of two perfectly conducting spherical nanoparticles. Quantum Electronics, 2005, 35, 901-906.	1.0	1
56	Properties of spontaneous radiation of an atom located near a cluster of two spherical nanoparticles. Quantum Electronics, 2005, 35, 891-900.	1.0	7
57	On the theory of whispering-gallery modes in a spherical layer. Quantum Electronics, 2003, 33, 349-356.	1.0	1
58	Plasmon resonance in ellipsoidal nanoparticles with shells. Quantum Electronics, 2003, 33, 817-822.	1.0	25