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	Active magneto-plasmonics in hybrid metalâ€“ferromagnet structures. Nature Photonics, 2010, 4, 107-111.	31.4	450
2	Photoacoustic imaging of living mouse brain vasculature using hollow gold nanospheres. Biomaterials, 2010, 31, 2617-2626.	11.4	289
3	Plasmonic Enhancement of Molecular Fluorescence near Silver Nanoparticles: Theory, Modeling, and Experiment. Journal of Physical Chemistry C, 2012, 116, 10723-10733.	3.1	153
4	Nonresonant Surface-Enhanced Raman Scattering of ZnO Quantum Dots with Au and Ag Nanoparticles. ACS Nano, 2013, 7, 3420-3426.	14.6	74
5	Radiative decay engineering by triaxial nanoellipsoids. Chemical Physics Letters, 2005, 412, 341-346.	2.6	55
6	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
7	Acoustic signals generated by laser-irradiated metal nanoparticles. Applied Optics, 2009, 48, C38.	2.1	49
8	Plasmonic atoms and plasmonic molecules. Applied Physics A: Materials Science and Processing, 2007, 89, 305-314.	2.3	41
9	Possible rationale for ultimate enhancement factor in single molecule Raman spectroscopy. Chemical Physics Letters, 2009, 477, 411-414.	2.6	40
10	Optical properties of a plasmonic nano-antenna: an analytical approach. New Journal of Physics, 2011, 13, 053034.	2.9	35
11	Engineering of radiation of optically active molecules with chiral nano-meta-particles. Europhysics Letters, 2012, 97, 47004.	2.0	34
12	Optical properties of an atom in the presence of a two-nanosphere cluster. Quantum Electronics, 2007, 37, 209-230.	1.0	31
13	Eigen oscillations of a chiral sphere and their influence on radiation of chiral molecules. Optics Express, 2014, 22, 18564.	3.4	31
14	Plasmon-enhanced fluorescence in gold nanorod-quantum dot coupled systems. Nanotechnology, 2020, 31, 105201.	2.6	29
15	Plasmon oscillations in ellipsoid nanoparticles: Beyond dipole approximation. Laser Physics, 2010, 20, 85-99.	1.2	26
16	The influence of chiral spherical particles on the radiation of optically active molecules. New Journal of Physics, 2012, 14, 123009.	2.9	26
17	Plasmon resonance in ellipsoidal nanoparticles with shells. Quantum Electronics, 2003, 33, 817-822.	1.0	25
18	Colloidal Plasmonics for Active Nanophotonics. Proceedings of the IEEE, 2020, 108, 704-720.	21.3	24

#	Article	IF	Citations
19	Chiral particles in a circularly polarised light field: new effects and applications. Quantum Electronics, 2011, 41, 526-533.	1.0	21
20	Possible nanoantenna control of chlorophyll dynamics for bioinspired photovoltaics. Scientific Reports, 2019, 9, 7138.	3.3	21
21	Possible Plasmonic Acceleration of LED Modulation for Li-Fi Applications. Plasmonics, 2018, 13, 2133-2140.	3.4	19
22	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
23	Plasmonic enhancement of electroluminescence. AIP Advances, 2018, 8, 015324.	1.3	18
24	Plasmon-enhanced fluorescence of labeled biomolecules on top of a silver sol-gel film. Journal of Nanophotonics, 2012, 6, 061710.	1.0	15
25	Enhancement of Labeled Alpha-fetoprotein Antibodies and Antigen-antibody Complexes Fluorescence with Silver Nanocolloids. Procedia Engineering, 2016, 140, 57-66.	1.2	14
26	Using chiral nano-meta-particles to control chiral molecule radiation. Physics-Uspekhi, 2012, 55, 1054-1058.	2.2	12
27	Colloidal Photoluminescent Refractive Index Nanosensor Using Plasmonic Effects. Zeitschrift Fur Physikalische Chemie, 2018, 232, 1431-1441.	2.8	11
28	Photostability enhancement of InP/ZnSe/ZnSeS/ZnS quantum dots by plasmonic nanostructures. Nanotechnology, 2021, 32, 035204.	2.6	11
29	Coupled microsphere clusters for detecting moleculeâ€™s dipole moment orientation. Applied Physics Letters, 2009, 94, 241104.	3.3	10
30	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
31	Spontaneous emission of an atom placed near a nanobelt of elliptical cross section. Physical Review A, 2007, 75, .	2.5	8
32	Spontaneous emission of a chiral molecule near a cluster of two chiral spherical particles. Quantum Electronics, 2015, 45, 250-257.	1.0	8
33	Radiative decay of a quantum emitter placed near a metal-dielectric lamellar nanostructure: Fundamental constraints. Physical Review A, 2016, 93, .	2.5	8
34	Properties of spontaneous radiation of an atom located near a cluster of two spherical nanoparticles. Quantum Electronics, 2005, 35, 891-900.	1.0	7
35	Tuning spontaneous radiation of chiral molecules by asymmetric chiral nanoparticles. Optics Express, 2017, 25, 6036.	3.4	7
36	Spontaneous emission of an optically active molecule near a chiral nanoellipsoid. Physical Review A, 2018, 98, .	2.5	7

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37	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
38	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
39	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
40	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
41	Loss compensation symmetry in dimers made of gain and lossy nanoparticles. Laser Physics Letters, 2018, 15, 035901.	1.4	5
42	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
43	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
44	Size and host-medium effects on topologically protected surface states in bianisotropic three-dimensional optical waveguides. Physical Review B, 2018, 98, .	3.2	4
45	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
46	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
47	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
48	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
49	On the theory of whispering-gallery modes in a spherical layer. Quantum Electronics, 2003, 33, 349-356.	1.0	1
50	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
51	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
52	Effect of a dimer of nanoparticles on the linewidth of forbidden E2 transitions. Quantum Electronics, 2016, 46, 634-639.	1.0	1
53	Engineering of Radiation of Optically Active Molecules with Chiral Nano-Meta Particles. , 2014, , 127-183.		1
54	Dipole Spontaneous Emission Near Planar Anisotropic Layers with Hyperbolic Metamaterial Properties. Journal of Applied Spectroscopy, 2014, 81, 488-494.	0.7	0

#	Article	IF	Citations
55	Surface-Enhanced Fluorescence from Polypropylene Substrates. NATO Science for Peace and Security Series B: Physics and Biophysics, 2017, , 537-539.	0.3	0
56	Effect of layered nanostructures on the linewidth of forbidden E2 transitions. Quantum Electronics, 2017, 47, 730-738.	1.0	0
57	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
58	Magneto-Optical Manipulation of Surface Plasmons in Gold/Ferromagnetic/Gold Multilayer Films. , 2009, , .		0