

Ilia L Rasskazov

List of Publications by Year in descending order

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39
papers

632
citations

566801

15
h-index

610482

24
g-index

39
all docs

39
docs citations

39
times ranked

572
citing authors

#	ARTICLE	IF	CITATIONS
1	Collective lattice resonances: Plasmonics and beyond. <i>Reviews in Physics</i> , 2021, 6, 100051.	4.4	108
2	Collective lattice resonances in arrays of dielectric nanoparticles: a matter of size. <i>Optics Letters</i> , 2019, 44, 5743.	1.7	47
3	Critical Role of Shell in Enhanced Fluorescence of Metal-Dielectric Core-Shell Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2020, 124, 13365-13373.	1.5	43
4	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
5	Nondecaying surface plasmon polaritons in linear chains of silver nanospheroids. <i>Optics Letters</i> , 2013, 38, 4743.	1.7	32
6	Collective lattice resonances in disordered and quasi-random all-dielectric metasurfaces. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, E21.	0.9	28
7	STRATIFY: a comprehensive and versatile MATLAB code for a multilayered sphere. <i>OSA Continuum</i> , 2020, 3, 2290.	1.8	24
8	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
9	Surface plasmon polaritons in curved chains of metal nanoparticles. <i>Physical Review B</i> , 2014, 90, .	1.1	20
10	Collective Lattice Resonances in All-Dielectric Nanostructures under Oblique Incidence. <i>Photonics</i> , 2020, 7, 24.	0.9	19
11	New ideally absorbing Au plasmonic nanostructures for biomedical applications. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 187, 54-61.	1.1	18
12	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
13	Dielectric Sphere Clusters as a Model to Understand Infrared Spectroscopic Imaging Data Recorded from Complex Samples. <i>Analytical Chemistry</i> , 2017, 89, 10813-10818.	3.2	16
14	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
15	Plasmonic lattice Kerker effect in ultraviolet-visible spectral range. <i>Physical Review B</i> , 2021, 103, .	1.1	16
16	Electromagnetic energy in multilayered spherical particles. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2019, 36, 1591.	0.8	15
17	Waveguiding properties of short linear chains of nonspherical metal nanoparticles. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014, 31, 2981.	0.9	14
18	Plasmonic nano-shells: atomistic discrete interaction versus classic electrodynamics models. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 13467-13473.	1.3	14

#	ARTICLE	IF	CITATIONS
19	Transmission and spectral properties of short optical plasmon waveguides. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2013, 115, 666-674.	0.2	13
20	Plasmon-enhanced upconversion: engineering enhancement and quenching at nano and macro scales. Optical Materials Express, 2018, 8, 3787.	1.6	13
21	Overcoming the adverse effects of substrate on the waveguiding properties of plasmonic nanoparticle chains. Journal of Applied Physics, 2016, 119, .	1.1	12
22	Extraordinary Fluorescence Enhancement in Metal-Dielectric Core-Shell Nanoparticles. Journal of Physical Chemistry Letters, 2021, 12, 6425-6430.	2.1	12
23	Extended Multiplicative Signal Correction for Infrared Microspectroscopy of Heterogeneous Samples with Cylindrical Domains. Applied Spectroscopy, 2019, 73, 859-869.	1.2	11
24	Super-efficient laser hyperthermia of malignant cells with core-shell nanoparticles based on alternative plasmonic materials. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 236, 106599.	1.1	10
25	Remarkable Predictive Power of the Modified Long Wavelength Approximation. Journal of Physical Chemistry C, 2021, 125, 1963-1971.	1.5	10
26	Multipolar Lattice Resonances in Plasmonic Finite-Size Metasurfaces. Photonics, 2021, 8, 109.	0.9	10
27	Titanium nitride nanoparticles as an alternative platform for plasmonic waveguides in the visible and telecommunication wavelength ranges. Photonics and Nanostructures - Fundamentals and Applications, 2018, 30, 50-56.	1.0	9
28	Harnessing superdirectivity in dielectric spherical multilayer antennas. Physical Review B, 2021, 104, .	1.1	6
29	Thermal limiting effects in optical plasmonic waveguides. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 191, 1-6.	1.1	5
30	Substrate-mediated lattice Kerker effect in Al metasurfaces. Journal of the Optical Society of America B: Optical Physics, 2021, 38, C78.	0.9	5
31	Intriguing branching of the maximum position of the absorption cross section in Mie theory explained. Optics Letters, 2020, 45, 4056.	1.7	5
32	Thermal effects in systems of colloidal plasmonic nanoparticles in high-intensity pulsed laser fields [Invited]: publisher's note. Optical Materials Express, 2017, 7, 799.	1.6	2
33	Clustering diffused-particle method for scattering from large ensembles of electromagnetically polarizable particles. Physical Review B, 2021, 104, .	1.1	1
34	Is There a Proper Figure of Merit for a Plasmonic Structure Involved in Metal-Enhanced Fluorescence?. Plasmonics, 2022, 17, 1091-1094.	1.8	1
35	Simulation of conditions for fabrication of optical nanowaveguides in the form of chains of spherical metal nanoparticles by electrostatic functionalization of the process substrate. Colloid Journal, 2013, 75, 279-288.	0.5	0
36	Collective resonances in hybrid photonic-plasmonic nanostructures. Journal of Physics: Conference Series, 2020, 1461, 012046.	0.3	0

#	ARTICLE	IF	CITATIONS
37	Ultra-narrow surface lattice resonances in periodic structures of refractory titanium nitride nanodiscs. , 2018, , .		0
38	Excitation of a homogeneous dielectric sphere by a point electric dipole. Journal of Physics: Conference Series, 2021, 2015, 012043.	0.3	0
39	Metal-enhanced fluorescence: More than we thought. , 2021, , .		0