Alexander E Ershov

List of Publications by Year
in descending order

37 papers	394 citations	758635 12 h-index	794141 19 g-index
37 all docs	37 docs citations	37 times ranked	341 citing authors

#	Article	IF	Citations
1	Collective lattice resonances in arrays of dielectric nanoparticles: a matter of size. Optics Letters, 2019, 44, 5743.	1.7	47
2	Titanium nitride as light trapping plasmonic material in silicon solar cell. Optical Materials, 2017, 72, 397-402.	1.7	38
3	Refractory titanium nitride two-dimensional structures with extremely narrow surface lattice resonances at telecommunication wavelengths. Applied Physics Letters, 2017, 111, .	1.5	37
4	Engineering mode hybridization in regular arrays of plasmonic nanoparticles embedded in 1D photonic crystal. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 224, 303-308.	1.1	22
5	Effects of size polydispersity on the extinction spectra of colloidal nanoparticle aggregates. Physical Review B, 2012, 85, .	1.1	20
6	Collective Lattice Resonances in All-Dielectric Nanostructures under Oblique Incidence. Photonics, 2020, 7, 24.	0.9	19
7	Suppression of surface plasmon resonance in Au nanoparticles upon transition to the liquid state. Optics Express, 2016, 24, 26851.	1.7	18
8	Engineering novel tunable optical high-Q nanoparticle array filters for a wide range of wavelengths. Optics Express, 2020, 28, 1426.	1.7	18
9	Optodynamic phenomena in aggregates of polydisperse plasmonic nanoparticles. Applied Physics B: Lasers and Optics, 2014, 115, 547-560.	1.1	16
10	Thermal effects in systems of colloidal plasmonic nanoparticles in high-intensity pulsed laser fields [Invited]. Optical Materials Express, 2017, 7, 555.	1.6	16
11	Plasmonic lattice Kerker effect in ultraviolet-visible spectral range. Physical Review B, 2021, 103, .	1.1	16
12	Surface plasmon resonances in liquid metal nanoparticles. Applied Physics B: Lasers and Optics, 2017, 123, 1.	1.1	12
13	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
14	Mode coupling in arrays of Al nanoparticles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 248, 106961.	1.1	10
15	Multipolar Lattice Resonances in Plasmonic Finite-Size Metasurfaces. Photonics, 2021, 8, 109.	0.9	10
16	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
17	On the possibility of through passage of asteroid bodies across the Earthâ€™s atmosphere. Monthly Notices of the Royal Astronomical Society, 2020, 493, 1344-1351.	1.6	9
18	Effect of local environment in resonant domains of polydisperse plasmonic nanoparticle aggregates on optodynamic processes in pulsed laser fields. Chinese Physics B, 2015, 24, 047804.	0.7	8

#	Article	IF	Citations
19	Optimization of photothermal methods for laser hyperthermia of malignant cells using bioconjugates of gold nanoparticles. Colloid Journal, 2016, 78, 435-442.	0.5	7
20	Plasmonic Enhancement of Local Fields in Ultrafine Metal Nanoparticles. Journal of Physical Chemistry C, 2021, 125, 13900-13908.	1.5	6
21	Thermal degradation of optical resonances in plasmonic nanoparticles. Nanoscale, 2022, 14, 433-447.	2.8	6
22	Plasmonic Nanoparticle Aggregates in High-Intensity Laser Fields: Effect of Pulse Duration. Plasmonics, 2016, 11, 403-410.	1.8	5
23	Thermal limiting effects in optical plasmonic waveguides. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 191, 1-6.	1.1	5
24	Method of calculating the phase composition of SiCâ€“Siâ€“C materials obtained by silicon infiltration of carbon matrices. Technical Physics, 2017, 62, 903-910.	0.2	5
25	Substrate-mediated lattice Kerker effect in Al metasurfaces. Journal of the Optical Society of America B: Optical Physics, 2021, 38, C78.	0.9	5
26	Ring of bound states in the continuum in the reciprocal space of a monolayer of high-contrast dielectric spheres. Physical Review B, 2022, 105, .	1.1	4
27	General principles in formation of monolayer colloidal crystals using the moving meniscus method. Colloid Journal, 2011, 73, 788-800.	0.5	3
28	Temperature dependent elastic repulsion of colloidal nanoparticles with a polymer adsorption layer. Colloid and Polymer Science, 2018, 296, 1689-1697.	1.0	3
29	Restructuring of plasmonic nanoparticle aggregates with arbitrary particle size distribution in pulsed laser fields. Chinese Physics B, 2016, 25, 117806.	0.7	2
30	Thermal effects in systems of colloidal plasmonic nanoparticles in high-intensity pulsed laser fields [Invited]: publisherâ€™s note. Optical Materials Express, 2017, 7, 799.	1.6	2
31	Part I. Nanobubbles in pulsed laser fields for anticancer therapy: in search of adequate models and simulation approaches. Journal Physics D: Applied Physics, 2022, 55, 175401.	1.3	2
32	Part II. Nanobubbles around plasmonic nanoparticles in terms of modern simulation modeling: what makes them kill the malignant cells?. Journal Physics D: Applied Physics, 2022, 55, 175402.	1.3	2
33	Processes underlying the laser photochromic effect in colloidal plasmonic nanoparticle aggregates. Chinese Physics B, 2020, 29, 037802.	0.7	1
34	Effect of the surface shape of a large space body on its fragmentation in a planetary atmosphere. Monthly Notices of the Royal Astronomical Society, 2020, 493, 1352-1360.	1.6	1
35	Conditions for the synthesis of colloidal crystals by the method of a mobile meniscus. Doklady Physics, 2010, 55, 374-379.	0.2	0
36	Evolution of extinction spectra of monolayer plasmon-resonant colloidal crystals in the process of their synthesis by the moving meniscus method. Colloid Journal, 2011, 73, 801-806.	0.5	0

#	Article	IF	Citations
37	Collective resonances in hybrid photonic-plasmonic nanostructures. Journal of Physics: Conference Series, 2020, 1461, 012046.	0.3	0