

# Oleg A Yeshchenko

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64

papers

962

citations

14

h-index

29

g-index

68

ext. papers

1,088

ext. citations

2.6

avg, IF

4.15

L-index

#	Paper	IF	Citations
64	Plasmonic enhancement of exciton and trion photoluminescence in 2D MoS <sub>2</sub> decorated with Au nanorods: Impact of nonspherical shape. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2022</b> , 140, 115213	3	1
63	Plasmonic enhancement of the antibacterial photodynamic efficiency of a zinc tetraphenylporphyrin photosensitizer/dextran polyacrylamide anionic copolymer/Au nanoparticles hybrid nanosystem.. <i>RSC Advances</i> , <b>2021</b> , 12, 11-23	3.7	1
62	Temperature Driven Plasmon-Exciton Coupling in Thermoresponsive Dextran-Graft-PNIPAM/Au Nanoparticle/CdTe Quantum Dots Hybrid Nanosystem. <i>Plasmonics</i> , <b>2021</b> , 16, 1137-1150	2.4	3
61	Enhancement of Raman Scattering and Exciton/Trion Photoluminescence of Monolayer and Few-Layer MoS <sub>2</sub> by Ag Nanoprisms and Nanoparticles: Shape and Size Effects. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 4119-4132	3.8	13
60	Laser-Induced Periodic Ag Surface Structure with Au Nanorods Plasmonic Nanocavity Metasurface for Strong Enhancement of Adenosine Nucleotide Label-Free Photoluminescence Imaging. <i>ACS Omega</i> , <b>2020</b> , 5, 14030-14039	3.9	7
59	Laser-Driven Aggregation in Dextran-Graft-PNIPAM/Silver Nanoparticles Hybrid Nanosystem: Plasmonic Effects. <i>Ukrainian Journal of Physics</i> , <b>2020</b> , 65, 254	0.4	3
58	Planar plasmonic nanocavity for efficient enhancement of photoluminescence of molecular emitters. <i>Optical Materials</i> , <b>2019</b> , 94, 348-355	3.3	4
57	Plasmonic Metasurfaces with Tunable Gap and Collective Surface Plasmon Resonance Modes. <i>Journal of Physical Chemistry C</i> , <b>2019</b> ,	3.8	3
56	Towards sensor applications of a polymer/Ag nanoparticle nanocomposite film.. <i>RSC Advances</i> , <b>2019</b> , 9, 8498-8506	3.7	4
55	Hybrid Nanocomposites Synthesized into Stimuli Responsible Polymer Matrices: Synthesis and Application Prospects. <i>Springer Proceedings in Physics</i> , <b>2019</b> , 167-185	0.2	2
54	Plasmonic Nanocavity Metasurface Based on Laser-Structured Silver Surface and Silver Nanoprisms for the Enhancement of Adenosine Nucleotide Photoluminescence. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 7152-7161	5.6	7
53	Plasmonic Coupling Effects in Arrays of Noble Metal Nanoparticles. <i>International Journal of Behavioral and Consultation Therapy</i> , <b>2019</b> , 285-320	0.6	2
52	Sub-micron and nanosized features in laser-induced periodic surface structures. <i>Indian Journal of Physics</i> , <b>2019</b> , 93, 495-502	1.4	8
51	Gold nanoparticle plasmon resonance in near-field coupled Au NPs layer/Al film nanostructure: Dependence on metal film thickness. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , <b>2018</b> , 29, 1-7	2.6	11
50	Anomalous Inverse Hysteresis of Phase Transition in Thermosensitive Dextran-graft-PNIPAM Copolymer/Au Nanoparticles Hybrid Nanosystem. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 8003-8010	3.8	15
49	Photoluminescence of Fullerene C <sub>60</sub> Thin Film in Plasmon-Coupled Monolayer of Au Nanoparticles [C <sub>60</sub> Film [Al Film Nanostructure. <i>Plasmonics</i> , <b>2018</b> , 13, 1325-1333	2.4	4
48	Surface Plasmon Resonance in [Monolayer of Ni Nanoparticles/Dielectric Spacer/Au (Ni) Film] Nanostructure. <i>Ukrainian Journal of Physics</i> , <b>2018</b> , 63, 386	0.4	6

47	Aggregation Processes in Hybrid Nanosystem Polymer/Nanosilver/Cisplatin. <i>Ukrainian Journal of Physics</i> , <b>2018</b> , 63, 513	0.4	6
46	Laser-driven structural transformations in dextran–PNIPAM copolymer/Au nanoparticles hybrid nanosystem: the role of plasmon heating and attractive optical forces.. <i>RSC Advances</i> , <b>2018</b> , 8, 38400-38409	2.7	4
45	Surface plasmon resonance in electrodynamically coupled Au NPs monolayer/dielectric spacer/Al film nanostructure: tuning by variation of spacer thickness. <i>Materials Research Express</i> , <b>2017</b> , 4, 106401	1.7	5
44	Laser-Driven Hybridization of a Surface Plasmon Resonance Collective Mode in a Monolayer of Silver Nanoparticles. <i>Plasmonics</i> , <b>2017</b> , 12, 1571-1580	2.4	4
43	Light-Induced Heating of Gold Nanoparticles in Colloidal Solution: Dependence on Detuning from Surface Plasmon Resonance. <i>Plasmonics</i> , <b>2016</b> , 11, 345-350	2.4	42
42	Synthesis, Morphology, and Optical Properties of Au/CdS Hybrid Nanocomposites Stabilized by Branched Polymer Matrices. <i>Journal of Nanomaterials</i> , <b>2016</b> , 2016, 1-9	3.2	5
41	Light-induced heating of dense 2D ensemble of gold nanoparticles: dependence on detuning from surface plasmon resonance. <i>Journal of Nanoparticle Research</i> , <b>2015</b> , 17, 1	2.3	6
40	Surface Plasmon Modes of Sandwich-Like MetalDielectric Nanostructures. <i>Plasmonics</i> , <b>2015</b> , 10, 655-665	2.4	12
39	Photoluminescence of rhodamine 6G in plasmonic field of Au nanoparticles: Temperature effects. <i>Journal of Luminescence</i> , <b>2015</b> , 158, 294-300	3.8	9
38	Sensing the temperature influence on plasmonic field of metal nanoparticles by photoluminescence of fullerene C60 in layered C60/Au system. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 153102	2.5	2
37	Optical recording in copperSilica nanocomposite. <i>Applied Surface Science</i> , <b>2014</b> , 302, 66-68	6.7	
36	Surface plasmon enhanced photoluminescence from copper nanoparticles: Influence of temperature. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 054309	2.5	17
35	Temperature Dependence of Photoluminescence from Silver Nanoparticles. <i>Plasmonics</i> , <b>2014</b> , 9, 93-101	2.4	14
34	Temperature dependence of the surface plasmon resonance in gold nanoparticles. <i>Surface Science</i> , <b>2013</b> , 608, 275-281	1.8	106
33	Temperature dependence of the surface plasmon resonance in silver nanoparticles. <i>Functional Materials</i> , <b>2013</b> , 20, 357-365	0.6	14
32	Temperature Effects on the Surface Plasmon Resonance in Copper Nanoparticles. <i>Ukrainian Journal of Physics</i> , <b>2013</b> , 58, 249-259	0.4	24
31	Size and Temperature Effects on the Surface Plasmon Resonance in Silver Nanoparticles. <i>Plasmonics</i> , <b>2012</b> , 7, 685-694	2.4	65
30	Electrodynamic coupling in regular arrays of gold nanocylinders. <i>Journal Physics D: Applied Physics</i> , <b>2012</b> , 45, 045102	3	11

29	Surface plasmon enhanced photoluminescence from fullerene C60 film on Au nanoparticles array: Resonant dependence on excitation frequency. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 124327	2.5	12
28	Optically induced anisotropy of surface plasmons in spherical metal nanoparticles. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	5
27	Surface plasmon as a probe for melting of silver nanoparticles. <i>Nanotechnology</i> , <b>2010</b> , 21, 045203	3.4	43
26	Photoluminescence from Silver Nanoparticles Enhanced by Surface Plasmon Resonance. <i>Materials Research Society Symposia Proceedings</i> , <b>2009</b> , 1208, 1		
25	Surface Plasmon as a Probe of Local Field Enhancement. <i>Plasmonics</i> , <b>2009</b> , 4, 115-119	2.4	11
24	Size-dependent surface-plasmon-enhanced photoluminescence from silver nanoparticles embedded in silica. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	124
23	Influence of interparticle interaction on melting of gold nanoparticles in Au/polytetrafluoroethylene nanocomposites. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 094326	2.5	15
22	Change in the resonance frequency of surface plasmons in copper nanoparticles excited by femtosecond laser pulses. <i>JETP Letters</i> , <b>2008</b> , 88, 41-44	1.2	1
21	Optical properties of sol-gel fabricated Mn/SiO <sub>2</sub> nanocomposites: Observation of surface plasmon resonance in Mn nanoparticles. <i>Applied Surface Science</i> , <b>2008</b> , 254, 2736-2742	6.7	5
20	Optical properties of sol-gel fabricated Co/SiO <sub>2</sub> nanocomposites. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2008</b> , 41, 60-65	3	16
19	Optical properties of sol-gel fabricated Ni/SiO <sub>2</sub> glass nanocomposites. <i>Journal of Physics and Chemistry of Solids</i> , <b>2008</b> , 69, 1615-1622	3.9	24
18	Influence of annealing conditions on size and optical properties of copper nanoparticles embedded in silica matrix. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2007</b> , 137, 247-254	3.1	75
17	Optical spectra and structure of (ZnAs <sub>2</sub> ) <sub>n</sub> subnanoclusters fabricated by incorporation into zeolite and laser ablation. <i>Materials Science and Engineering C</i> , <b>2007</b> , 27, 1364-1367	8.3	
16	Size-dependent melting of spherical copper nanoparticles embedded in a silica matrix. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	120
15	Optical spectra and structure of CdP <sub>4</sub> nanoclusters fabricated by incorporation into zeolite and laser ablation. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 20215-9	3.4	3
14	Pentazadienes as New Photoinitiators in the Development of New Materials. <i>Molecular Crystals and Liquid Crystals</i> , <b>2005</b> , 427, 169/[481]-179/[491]	0.5	3
13	Fabrication, study of optical properties and structure of most stable (CdP <sub>2</sub> ) <sub>n</sub> nanoclusters. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2005</b> , 30, 25-30	3	2
12	Optical properties and structure of most stable subnanometer (ZnAs <sub>2</sub> ) <sub>n</sub> clusters. <i>Physica B: Condensed Matter</i> , <b>2005</b> , 368, 8-15	2.8	3

11	Optical study of ZnP <sub>2</sub> nanoparticles in zeolite NaX. <i>Solid State Communications</i> , <b>2005</b> , 133, 109-112	1.6	19
10	Comparison study of energy bands and Wannier-Mott excitons in mixed Zn(P As ) and Zn Cd P crystals. <i>European Physical Journal B</i> , <b>2002</b> , 28, 37-43	1.2	
9	Quantum biexcitonic liquid in monoclinic ZnP <sub>2</sub> crystals. <i>Low Temperature Physics</i> , <b>2001</b> , 27, 498-503	0.7	1
8	Excitons and excitonic molecules in mixed Zn(P1Asx) <sub>2</sub> crystals. <i>Physica B: Condensed Matter</i> , <b>2001</b> , 307, 231-238	2.8	0
7	Influence of substitution of P by As on exciton and biexciton states in Zn(P1Asx) <sub>2</sub> crystals. <i>Physica B: Condensed Matter</i> , <b>2001</b> , 308-310, 1031-1034	2.8	
6	Multiserial Structure of Excitonic Energy Spectrum in Monoclinic ZnP <sub>2</sub> Crystal. <i>Physica Status Solidi (B): Basic Research</i> , <b>1998</b> , 207, 171-181	1.3	7
5	Biexcitonic liquid in monoclinic zinc diphosphide crystals. <i>Solid State Communications</i> , <b>1996</b> , 98, 489-493	1.6	9
4	Radiative transitions in an excitonic molecule. <i>Solid State Communications</i> , <b>1996</b> , 98, 941-945	1.6	7
3	Ions of excitonic molecule in ZnP <sub>2</sub> crystals. <i>Solid State Communications</i> , <b>1996</b> , 100, 1-5	1.6	5
2	Study of Excitonic Molecules in Monoclinic Zinc Diphosphide Crystals. <i>Physica Status Solidi (B): Basic Research</i> , <b>1995</b> , 191, 337-344	1.3	8
1	Antibacterial hybrid hydrogels loaded with nano silver. <i>Applied Nanoscience (Switzerland)</i> , 1	3.3	4