

# Oleg A Yeshchenko

## List of Publications by Year in descending order

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68  
papers

1,208  
citations

516215

16  
h-index

395343

33  
g-index

68  
all docs

68  
docs citations

68  
times ranked

1554  
citing authors

#	ARTICLE	IF	CITATIONS
1	Temperature dependence of the surface plasmon resonance in gold nanoparticles. Surface Science, 2013, 608, 275-281.	0.8	148
2	Size-dependent surface-plasmon-enhanced photoluminescence from silver nanoparticles embedded in silica. Physical Review B, 2009, 79, .	1.1	139
3	Size-dependent melting of spherical copper nanoparticles embedded in a silica matrix. Physical Review B, 2007, 75, .	1.1	138
4	Size and Temperature Effects on the Surface Plasmon Resonance in Silver Nanoparticles. Plasmonics, 2012, 7, 685-694.	1.8	92
5	Influence of annealing conditions on size and optical properties of copper nanoparticles embedded in silica matrix. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 137, 247-254.	1.7	81
6	Light-Induced Heating of Gold Nanoparticles in Colloidal Solution: Dependence on Detuning from Surface Plasmon Resonance. Plasmonics, 2016, 11, 345-350.	1.8	51
7	Surface plasmon as a probe for melting of silver nanoparticles. Nanotechnology, 2010, 21, 045203.	1.3	45
8	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. Journal of Physical Chemistry C, 2021, 125, 4119-4132.	1.5	32
9	Optical properties of sol-gel fabricated Ni/SiO <sub>2</sub> glass nanocomposites. Journal of Physics and Chemistry of Solids, 2008, 69, 1615-1622.	1.9	25
10	Temperature Effects on the Surface Plasmon Resonance in Copper Nanoparticles. Ukrainian Journal of Physics, 2013, 58, 249-259.	0.1	24
11	Optical properties of sol-gel fabricated Co/SiO <sub>2</sub> nanocomposites. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 41, 60-65.	1.3	21
12	Surface plasmon enhanced photoluminescence from copper nanoparticles: Influence of temperature. Journal of Applied Physics, 2014, 116, .	1.1	21
13	Optical study of ZnP <sub>2</sub> nanoparticles in zeolite Na-X. Solid State Communications, 2005, 133, 109-112.	0.9	20
14	Influence of interparticle interaction on melting of gold nanoparticles in Au/polytetrafluoroethylene nanocomposites. Journal of Applied Physics, 2009, 105, .	1.1	18
15	Anomalous Inverse Hysteresis of Phase Transition in Thermosensitive Dextran-graft-PNIPAM Copolymer/Au Nanoparticles Hybrid Nanosystem. Journal of Physical Chemistry C, 2018, 122, 8003-8010.	1.5	18
16	Gold nanoparticle plasmon resonance in near-field coupled Au NPs layer/Al film nanostructure: Dependence on metal film thickness. Photonics and Nanostructures - Fundamentals and Applications, 2018, 29, 1-7.	1.0	17
17	Temperature Dependence of Photoluminescence from Silver Nanoparticles. Plasmonics, 2014, 9, 93-101.	1.8	16
18	Temperature dependence of the surface plasmon resonance in silver nanoparticles. Functional Materials, 2013, 20, 357-365.	0.4	16

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19	Surface Plasmon Modes of Sandwich-Like Metal-Dielectric Nanostructures. <i>Plasmonics</i> , 2015, 10, 655-665.	1.8	15
20	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> , 2020, 5, 14030-14039.	1.6	15
21	Surface Plasmon as a Probe of Local Field Enhancement. <i>Plasmonics</i> , 2009, 4, 115-119.	1.8	13
22	Electrodynamic coupling in regular arrays of gold nanocylinders. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 045102.	1.3	13
23	Photoluminescence of rhodamine 6G in plasmonic field of Au nanoparticles: Temperature effects. <i>Journal of Luminescence</i> , 2015, 158, 294-300.	1.5	13
24	Surface plasmon enhanced photoluminescence from fullerene C60 film on Au nanoparticles array: Resonant dependence on excitation frequency. <i>Journal of Applied Physics</i> , 2012, 111, 124327.	1.1	12
25	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> , 2019, 2, 7152-7161.	2.4	12
26	Biexcitonic liquid in monoclinic zinc diphosphide crystals. <i>Solid State Communications</i> , 1996, 98, 489-493.	0.9	10
27	Plasmonic Metasurfaces with Tunable Gap and Collective Surface Plasmon Resonance Modes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 13057-13062.	1.5	10
28	Plasmonic enhancement of the antibacterial photodynamic efficiency of a zinc tetraphenylporphyrin photosensitizer/dextran <i>graft</i> polyacrylamide anionic copolymer/Au nanoparticles hybrid nanosystem. <i>RSC Advances</i> , 2021, 12, 11-23.	1.7	10
29	Study of Excitonic Molecules in Monoclinic Zinc Diphosphide Crystals. <i>Physica Status Solidi (B): Basic Research</i> , 1995, 191, 337-344.	0.7	9
30	Multiserial Structure of Excitonic Energy Spectrum in Monoclinic ZnP2 Crystal. <i>Physica Status Solidi (B): Basic Research</i> , 1998, 207, 171-181.	0.7	8
31	Sub-micron and nanosized features in laser-induced periodic surface structures. <i>Indian Journal of Physics</i> , 2019, 93, 495-502.	0.9	8
32	Radiative transitions in an excitonic molecule. <i>Solid State Communications</i> , 1996, 98, 941-945.	0.9	7
33	Optical properties of sol-gel fabricated Mn/SiO2 nanocomposites: Observation of surface plasmon resonance in Mn nanoparticles. <i>Applied Surface Science</i> , 2008, 254, 2736-2742.	3.1	7
34	Light-induced heating of dense 2D ensemble of gold nanoparticles: dependence on detuning from surface plasmon resonance. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	7
35	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> , 2017, 4, 106401.	0.8	7
36	Towards sensor applications of a polymer/Ag nanoparticle nanocomposite film. <i>RSC Advances</i> , 2019, 9, 8498-8506.	1.7	7

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37	Temperature Driven Plasmon-Exciton Coupling in Thermoresponsive Dextran-Graft-PNIPAM/Au Nanoparticle/CdTe Quantum Dots Hybrid Nanosystem. <i>Plasmonics</i> , 2021, 16, 1137-1150.	1.8	7
38	Antibacterial hybrid hydrogels loaded with nano silver. <i>Applied Nanoscience (Switzerland)</i> , 0, , 1.	1.6	7
39	Aggregation Processes in Hybrid Nanosystem Polymer/Nanosilver/Cisplatin. <i>Ukrainian Journal of Physics</i> , 2018, 63, 513.	0.1	7
40	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> , 2022, 140, 115213.	1.3	7
41	Ions of excitonic molecule in $\hat{\Gamma}^2$ - ZnP <sub>2</sub> crystals. <i>Solid State Communications</i> , 1996, 100, 1-5.	0.9	6
42	Synthesis, Morphology, and Optical Properties of Au/CdS Hybrid Nanocomposites Stabilized by Branched Polymer Matrices. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-9.	1.5	6
43	Laser-Driven Hybridization of a Surface Plasmon Resonance Collective Mode in a Monolayer of Silver Nanoparticles. <i>Plasmonics</i> , 2017, 12, 1571-1580.	1.8	6
44	Laser-driven structural transformations in dextran- <i>graft</i> -PNIPAM copolymer/Au nanoparticles hybrid nanosystem: the role of plasmon heating and attractive optical forces. <i>RSC Advances</i> , 2018, 8, 38400-38409.	1.7	6
45	Planar plasmonic nanocavity for efficient enhancement of photoluminescence of molecular emitters. <i>Optical Materials</i> , 2019, 94, 348-355.	1.7	6
46	Surface Plasmon Resonance in $\epsilon$ -Monolayer of Ni Nanoparticles/Dielectric Spacer/Au (Ni) Film $\epsilon$ - Nanostructure. <i>Ukrainian Journal of Physics</i> , 2018, 63, 386.	0.1	6
47	Laser-Driven Aggregation in Dextran $\epsilon$ -Graft $\epsilon$ -PNIPAM/Silver Nanoparticles Hybrid Nanosystem: Plasmonic Effects. <i>Ukrainian Journal of Physics</i> , 2020, 65, 254.	0.1	6
48	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> , 2005, 109, 20215-20219.	1.2	5
49	Optically induced anisotropy of surface plasmons in spherical metal nanoparticles. <i>Physical Review B</i> , 2010, 82, .	1.1	5
50	Optical properties and structure of most stable subnanometer (ZnAs <sub>2</sub> ) <sub>n</sub> clusters. <i>Physica B: Condensed Matter</i> , 2005, 368, 8-15.	1.3	4
51	Photoluminescence of Fullerene C <sub>60</sub> Thin Film in Plasmon-Coupled Monolayer of Au Nanoparticles $\epsilon$ - C <sub>60</sub> Film $\epsilon$ - Al Film Nanostructure. <i>Plasmonics</i> , 2018, 13, 1325-1333.	1.8	4
52	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> , 2005, 30, 25-30.	1.3	3
53	Pentazadienes as New Photoinitiators in the Development of New Materials. <i>Molecular Crystals and Liquid Crystals</i> , 2005, 427, 169/[481]-179/[491].	0.4	3
54	Sensing the temperature influence on plasmonic field of metal nanoparticles by photoluminescence of fullerene C <sub>60</sub> in layered C <sub>60</sub> /Au system. <i>Journal of Applied Physics</i> , 2015, 117, 153102.	1.1	2

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55	Hybrid Nanocomposites Synthesized into Stimuli Responsible Polymer Matrices: Synthesis and Application Prospects. Springer Proceedings in Physics, 2019, , 167-185.	0.1	2
56	Plasmonic Coupling Effects in Arrays of Noble Metal Nanoparticles. International Journal of Behavioral and Consultation Therapy, 2019, , 285-320.	0.4	2
57	Quantum biexcitonic liquid in monoclinic ZnP <sub>2</sub> crystals. Low Temperature Physics, 2001, 27, 498-503.	0.2	1
58	Excitons and excitonic molecules in mixed Zn(P <sub>1-x</sub> As <sub>x</sub> ) <sub>2</sub> crystals. Physica B: Condensed Matter, 2001, 307, 231-238.	1.3	1
59	Change in the resonance frequency of surface plasmons in copper nanoparticles excited by femtosecond laser pulses. JETP Letters, 2008, 88, 41-44.	0.4	1
60	Influence of substitution of P by As on exciton and biexciton states in Zn(P <sub>1-x</sub> As <sub>x</sub> ) <sub>2</sub> crystals. Physica B: Condensed Matter, 2001, 308-310, 1031-1034.	1.3	0
61	Comparison study of energy bands and Wannier-Mott excitons in mixed Zn(P <sub>1-x</sub> As <sub>x</sub> ) <sub>2</sub> crystals. European Physical Journal B, 2002, 28, 37-43.	0.6	0
62	Energy bands and Wannier-Mott excitons in Zn(P <sub>1-x</sub> As <sub>x</sub> ) <sub>2</sub> and Zn <sub>1-x</sub> Cd <sub>x</sub> P crystals. , 2004, , .	0	0
63	Optical Spectra and Structure of CdP <sub>4</sub> Nanoclusters Fabricated by Incorporation into Zeolite and Laser Ablation.. ChemInform, 2006, 37, no.	0.1	0
64	SIZE-DEPENDENT MELTING OF COPPER NANOPARTICLES IN SILICA MATRIX REVEALED BY OPTICAL SPECTROSCOPY. , 2007, , .		0
65	Optical spectra and structure of (ZnAs <sub>2</sub> ) <sub>n</sub> subnanoclusters fabricated by incorporation into zeolite and laser ablation. Materials Science and Engineering C, 2007, 27, 1364-1367.	3.8	0
66	Photoluminescence from Silver Nanoparticles Enhanced by Surface Plasmon Resonance. Materials Research Society Symposia Proceedings, 2009, 1208, 1.	0.1	0
67	Optical recording in copper-silica nanocomposite. Applied Surface Science, 2014, 302, 66-68.	3.1	0
68	Polymer/Ag Nanoparticles Composite for Chloroform Detection. , 2018, , .		0