

Boris Nikolayevich Khlebtsov

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114
papers

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h-index

58
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145
ext. papers

4,267
ext. citations

4.9
avg, IF

5.61
L-index

#	Paper	IF	Citations
114	Optical amplification of photothermal therapy with gold nanoparticles and nanoclusters. <i>Nanotechnology</i> , 2006 , 17, 5167-5179	3.4	314
113	Multipole Plasmons in Metal Nanorods: Scaling Properties and Dependence on Particle Size, Shape, Orientation, and Dielectric Environment. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 11516-11527	3.8	162
112	Analytical and theranostic applications of gold nanoparticles and multifunctional nanocomposites. <i>Theranostics</i> , 2013 , 3, 167-80	12.1	146
111	Laser-induced tissue hyperthermia mediated by gold nanoparticles: toward cancer phototherapy. <i>Journal of Biomedical Optics</i> , 2009 , 14, 021016	3.5	145
110	Gold nanoisland films as reproducible SERS substrates for highly sensitive detection of fungicides. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 6518-29	9.5	128
109	Nanocomposites containing silica-coated gold-silver nanocages and Yb-2,4-dimethoxyhematoporphyrin: multifunctional capability of IR-luminescence detection, photosensitization, and photothermolysis. <i>ACS Nano</i> , 2011 , 5, 7077-89	16.7	127
108	Circulation and distribution of gold nanoparticles and induced alterations of tissue morphology at intravenous particle delivery. <i>Journal of Biophotonics</i> , 2009 , 2, 292-302	3.1	121
107	Gold nanorods with a hematoporphyrin-loaded silica shell for dual-modality photodynamic and photothermal treatment of tumors in vivo. <i>Nano Research</i> , 2014 , 7, 325-337	10	119
106	Absorption and scattering of light by a dimer of metal nanospheres: comparison of dipole and multipole approaches. <i>Nanotechnology</i> , 2006 , 17, 1437-1445	3.4	95
105	Towards Effective Photothermal/Photodynamic Treatment Using Plasmonic Gold Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	94
104	Determination of the size, concentration, and refractive index of silica nanoparticles from turbidity spectra. <i>Langmuir</i> , 2008 , 24, 8964-70	4	89
103	Overgrowth of gold nanorods by using a binary surfactant mixture. <i>Langmuir</i> , 2014 , 30, 1696-703	4	75
102	Preparation and optical scattering characterization of gold nanorods and their application to a dot-immunogold assay. <i>Applied Optics</i> , 2005 , 44, 6285-95	1.7	69
101	SERS-based lateral flow immunoassay of troponin I by using gap-enhanced Raman tags. <i>Nano Research</i> , 2019 , 12, 413-420	10	66
100	Surface-enhanced Raman scattering inside Au@Ag core/shell nanorods. <i>Nano Research</i> , 2016 , 9, 2303-2318	11.8	65
99	Coupled plasmon resonances in monolayers of metal nanoparticles and nanoshells. <i>Physical Review B</i> , 2008 , 77,	3.3	65
98	Plasmonic Heating Plays a Dominant Role in the Plasmon-Induced Photocatalytic Reduction of 4-Nitrobenzenethiol. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 5657-5663	3.8	63

97	Quantifying the Numbers of Gold Nanoparticles in the Test Zone of Lateral Flow Immunoassay Strips. <i>ACS Applied Nano Materials</i> , 2019 , 2, 5020-5028	5.6	61
96	Impact of albumin based approaches in nanomedicine: Imaging, targeting and drug delivery. <i>Advances in Colloid and Interface Science</i> , 2017 , 246, 13-39	14.3	61
95	Contrasting properties of gold nanoshells and titanium dioxide nanoparticles for optical coherence tomography imaging of skin: Monte Carlo simulations and in vivo study. <i>Journal of Biomedical Optics</i> , 2009 , 14, 021017	3.5	59
94	Gold nanoshell photomodification under a single-nanosecond laser pulse accompanied by color-shifting and bubble formation phenomena. <i>Nanotechnology</i> , 2008 , 19, 015701	3.4	58
93	Near-infrared laser photothermal therapy of cancer by using gold nanoparticles: Computer simulations and experiment. <i>Medical Laser Application: International Journal for Laser Treatment and Research</i> , 2007 , 22, 199-206		55
92	Observation of Extra-High Depolarized Light Scattering Spectra from Gold Nanorods. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 12760-12768	3.8	51
91	Can the light scattering depolarization ratio of small particles be greater than 1/3?. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 13578-84	3.4	51
90	Surface-Enhanced Raman Scattering Substrates Based on Self-Assembled PEGylated Gold and Gold/Silver Core/Shell Nanorods. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 23162-23171	3.8	49
89	Gap-enhanced Raman tags: fabrication, optical properties, and theranostic applications. <i>Theranostics</i> , 2020 , 10, 2067-2094	12.1	46
88	Rational Design of Ultrabright SERS Probes with Embedded Reporters for Bioimaging and Photothermal Therapy. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 30387-30397	9.5	46
87	A New T-Matrix Solvable Model for Nanorods: TEM-Based Ensemble Simulations Supported by Experiments. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 6317-6323	3.8	46
86	Au@Ag core/shell cuboids and dumbbells: Optical properties and SERS response. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015 , 167, 64-75	2.1	44
85	Biosensing potential of silica/gold nanoshells: Sensitivity of plasmon resonance to the local dielectric environment. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2007 , 106, 154-169	2.1	42
84	Gold nanoparticles as an adjuvant: Influence of size, shape, and technique of combination with CpG on antibody production. <i>International Immunopharmacology</i> , 2018 , 54, 163-168	5.8	42
83	Enhanced photoinactivation of Staphylococcus aureus with nanocomposites containing plasmonic particles and hematoporphyrin. <i>Journal of Biophotonics</i> , 2013 , 6, 338-51	3.1	41
82	A protein assay based on colloidal gold conjugates with trypsin. <i>Analytical Biochemistry</i> , 2005 , 341, 16-21	3.1	40
81	Multiplexed dot immunoassay using Ag nanocubes, Au/Ag alloy nanoparticles, and Au/Ag nanocages. <i>Nano Research</i> , 2012 , 5, 124-134	10	37
80	Plasmonic nanopowders for photothermal therapy of tumors. <i>Langmuir</i> , 2012 , 28, 8994-9002	4	37

79	SERS substrates formed by gold nanorods deposited on colloidal silica films. <i>Nanoscale Research Letters</i> , 2013 , 8, 250	5	37
78	High-efficiency freezing-induced loading of inorganic nanoparticles and proteins into micron- and submicron-sized porous particles. <i>Scientific Reports</i> , 2018 , 8, 17763	4.9	37
77	Multifunctional Au nanoclusters for targeted bioimaging and enhanced photodynamic inactivation of <i>Staphylococcus aureus</i> . <i>RSC Advances</i> , 2015 , 5, 61639-61649	3.7	34
76	Ultrasharp light-scattering resonances of structured nanospheres: effects of size-dependent dielectric functions. <i>Journal of Biomedical Optics</i> , 2006 , 11, 044002	3.5	33
75	Tunable depolarized light scattering from gold and gold/silver nanorods. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 3210-8	3.6	32
74	Enhanced solid-phase immunoassay using gold nanoshells: effect of nanoparticle optical properties. <i>Nanotechnology</i> , 2008 , 19, 435703	3.4	32
73	Surface Morphology of a Gold Core Controls the Formation of Hollow or Bridged Nanogaps in Plasmonic Nanomatryoshkas and Their SERS Responses. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 15385-15394	3.8	31
72	Nanoplasmonically-induced defects in lipid membrane monitored by ion current: transient nanopores versus membrane rupture. <i>Nano Letters</i> , 2014 , 14, 4273-9	11.5	30
71	Photodynamic opening of the blood-brain barrier and pathways of brain clearing. <i>Journal of Biophotonics</i> , 2018 , 11, e201700287	3.1	29
70	Improved size-tunable synthesis and SERS properties of Au nanostars. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	29
69	Composite SERS-based satellites navigated by optical tweezers for single cell analysis. <i>Analyst, The</i> , 2015 , 140, 4981-6	5	29
68	In-situ NIR-laser mediated bioactive substance delivery to single cell for EGFP expression based on biocompatible microchamber-arrays. <i>Journal of Controlled Release</i> , 2018 , 276, 84-92	11.7	26
67	Quantitative cell bioimaging using gold-nanoshell conjugates and phage antibodies. <i>Journal of Biophotonics</i> , 2011 , 4, 74-83	3.1	25
66	In vitro and in vivo MRI visualization of nanocomposite biodegradable microcapsules with tunable contrast. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 32238-32246	3.6	24
65	Pilot study of transcranial photobiomodulation of lymphatic clearance of beta-amyloid from the mouse brain: breakthrough strategies for non-pharmacologic therapy of Alzheimer's disease. <i>Biomedical Optics Express</i> , 2019 , 10, 4003-4017	3.5	23
64	Multipolarization Dynamic Light Scattering of Nonspherical Nanoparticles in Solution. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 3070-3077	3.8	22
63	Reexamination of Surface-Enhanced Raman Scattering from Gold Nanorods as a Function of Aspect Ratio and Shape. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 10647-10658	3.8	21
62	A solid-phase dot assay using silica/gold nanoshells. <i>Nanoscale Research Letters</i> , 2007 , 2, 6-11	5	21

61	A novel cell transfection platform based on laser optoporation mediated by Au nanostar layers. <i>Journal of Biophotonics</i> , 2019 , 12, e201800166	3.1	20
60	Tip-Functionalized [email-protected] Nanorods as Ultrabright Surface-Enhanced Raman Scattering Probes for Bioimaging in Off-Resonance Mode. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 17983-17993	3.8	19
59	Surface-Enhanced Raman Scattering-Based Lateral-Flow Immunoassay. <i>Nanomaterials</i> , 2020 , 10,	5.4	19
58	Optimal design of gold nanomatryoshkas with embedded Raman reporters. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 190, 89-102	2.1	16
57	Plasmonic photothermal therapy: Approaches to advanced strategy. <i>Lasers in Surgery and Medicine</i> , 2018 , 50, 1025-1033	3.6	16
56	On the extinction multipole plasmons in gold nanorods. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2007 , 107, 306-314	2.1	16
55	Large-scale high-quality 2D silica crystals: dip-drawing formation and decoration with gold nanorods and nanospheres for SERS analysis. <i>Nanotechnology</i> , 2014 , 25, 405602	3.4	14
54	Photoacoustic and fluorescent effects in multilayer plasmon-dye interfaces. <i>Journal of Biophotonics</i> , 2019 , 12, e201800265	3.1	14
53	Quantitative and multiplex dot-immunoassay using gap-enhanced Raman tags. <i>RSC Advances</i> , 2017 , 7, 40834-40841	3.7	13
52	Optical properties of gold nanoshells on monodisperse silica cores: Experiment and simulations. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 187, 1-9	2.1	13
51	Advantages of Highly Spherical Gold Nanoparticles as Labels for Lateral Flow Immunoassay. <i>Sensors</i> , 2020 , 20,	3.8	12
50	Extinction and extra-high depolarized light scattering spectra of gold nanorods with improved purity and dimension tunability: direct and inverse problems. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 5710-22	3.6	12
49	A simple Mie-type model for silica-coated gold nanocages. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013 , 121, 23-29	2.1	12
48	Gold Nanorod Mediated Chlorhexidine Microparticle Formation and Near-Infrared Light Induced Release. <i>Langmuir</i> , 2017 , 33, 7982-7993	4	12
47	A method for studying insoluble immune complexes. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2004 , 1670, 199-207	4	12
46	Polydopamine-coated Au nanorods for targeted fluorescent cell imaging and photothermal therapy. <i>Beilstein Journal of Nanotechnology</i> , 2019 , 10, 794-803	3	11
45	Carbon dot aggregates as an alternative to gold nanoparticles for the laser-induced opening of microchamber arrays. <i>Soft Matter</i> , 2018 , 14, 9012-9019	3.6	11
44	Au-nanocluster-loaded human serum albumin nanoparticles with enhanced cellular uptake for fluorescent imaging. <i>Journal of Innovative Optical Health Sciences</i> , 2016 , 09, 1650004	1.2	10

43	Polydopamine coating decreases longitudinal plasmon of Au nanorods: Experiment and simulations. <i>Applied Materials Today</i> , 2019 , 15, 67-76	6.6	10
42	Microstructured Optical Waveguide-Based Endoscopic Probe Coated with Silica Submicron Particles. <i>Materials</i> , 2019 , 12,	3.5	8
41	Impact of Kapitza resistance on the stability and efficiency of photoacoustic conversion from gold nanorods. <i>Journal of Colloid and Interface Science</i> , 2020 , 578, 358-365	9.3	8
40	Small Thiols Stabilize the Shape of Gold Nanorods. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 11132-11140	3.8	7
39	Petal-like Gap-Enhanced Raman Tags with Controllable Structures for High-Speed Raman Imaging. <i>Langmuir</i> , 2020 , 36, 5546-5553	4	7
38	Optical properties of gold spheroidal particles and nanoshells: Effect of the external dielectric medium 2005 ,		6
37	Air-Filled Bubbles Stabilized by Gold Nanoparticle/Photodynamic Dye Hybrid Structures for Theranostics. <i>Nanomaterials</i> , 2021 , 11,	5.4	6
36	Photostability of Contrast Agents for Photoacoustics: The Case of Gold Nanorods. <i>Nanomaterials</i> , 2021 , 11,	5.4	6
35	A New Type of SERS Tags: Au@Ag Core/Shell Nanorods with Embedded Aromatic Molecules. <i>Nanotechnologies in Russia</i> , 2017 , 12, 495-507	0.6	5
34	Golden Vaterite as a Mesoscopic Metamaterial for Biophotonic Applications. <i>Advanced Materials</i> , 2021 , 33, e2008484	24	5
33	Optically activated and interrogated plasmonic hydrogels for applications in wound healing. <i>Journal of Biophotonics</i> , 2020 , 13, e202000135	3.1	4
32	Combined near infrared photothermal therapy and photodynamic therapy by association of gold nanoparticles and an organic dye 2011 ,		4
31	Analytical and Theranostic Applications of Gold Nanoparticles and Multifunctional Nanocomposites: Erratum. <i>Theranostics</i> , 2013 , 3, 1012-1012	12.1	3
30	The development of skin immersion clearing method for increasing of laser exposure efficiency on subcutaneous objects 2012 ,		3
29	Near-infrared laser photothermal therapy and photodynamic inactivation of cells by using gold nanoparticles and dyes 2007 ,		3
28	Optical properties of gold-nanoshell planar array 2007 ,		3
27	Observation of time-dependent single-particle light scattering from gold nanorods and nanospheres by using unpolarized dark-field microscopy 2006 ,		3
26	Fluctuation of probe beam in thermolens schematics as potential indicator of cell metabolism, apoptosis, necrosis and laser impact 2006 ,		3

25	Precise control of distance between plasmonic surface-enhanced Raman scattering substrate and analyte molecules with polyelectrolyte layers. <i>Journal of Raman Spectroscopy</i> , 2018 , 49, 1581-1593	2.3	3
24	Air-Filled Microbubbles Based on Albumin Functionalized with Gold Nanocages and Zinc Phthalocyanine for Multimodal Imaging. <i>Micromachines</i> , 2021 , 12,	3.3	3
23	Photoswitchable Spasers with a Plasmonic Core and Photoswitchable Fluorescent Proteins. <i>Scientific Reports</i> , 2019 , 9, 12439	4.9	2
22	Microstructured Waveguides with Polyelectrolyte-Stabilized Gold Nanostars for SERS Sensing of Dissolved Analytes. <i>Materials</i> , 2018 , 11,	3.5	2
21	Optical polarizability of metal nanoparticles and their biospheric conjugates 2006 ,		2
20	Study of complex micellar systems by static and dynamic light scattering 2004 , 5475, 12		2
19	Improving SERS Bioimaging of Subcutaneous Phantom in Vivo with Optical Clearing. <i>Journal of Biophotonics</i> , 2021 , e202100281	3.1	2
18	Citrate-reduced Au nanoparticles vs. monodisperse spheres: extinction and dynamic light scattering measurements 2019 ,		2
17	Tumor Phantom with Incorporated SERS Tags: Detectability in a Turbid Medium. <i>Photonics</i> , 2021 , 8, 144	2.2	2
16	Alterations of morphology of lymphoid organs and peripheral blood indicators under the influence of gold nanoparticles in rats. <i>Journal of Innovative Optical Health Sciences</i> , 2016 , 09, 1640004	1.2	2
15	Gold Nanoparticle-Based Technologies in Photothermal/Photodynamic Treatment: The Challenges and Prospects 2018 , 151-173		2
14	Photothermal and Photodynamic Therapy of Tumors with Plasmonic Nanoparticles: Challenges and Prospects.. <i>Materials</i> , 2022 , 15,	3.5	2
13	Resonant Concentration-Driven Control of Dye Molecule Photodegradation via Strong Optical Coupling to Plasmonic Nanoparticles.. <i>Nano Letters</i> , 2021 ,	11.5	2
12	The assesment of effectiveness of plasmonic resonance photothermal therapy in tumor-bearing rats after multiple intravenous administration of gold nanorods 2017 ,		1
11	The effects of prolonged oral administration of gold nanoparticles on the morphology of hematopoietic and lymphoid organs 2017 ,		1
10	Morphological study of the internal organs in rats with alloxan diabetes and transplanted liver tumor after intravenous injection of gold nanorods. <i>Russian Open Medical Journal</i> , 2014 , 3, 0301	1.6	1
9	Influence of gold nanoparticles on platelets functional activity in vitro 2008 ,		1
8	Optimization of gold nanostructures for laser killing of cancer cells 2006 ,		1

- 7 Multipole plasmons in gold nanorods: scaling properties and dependence on the particle size, shape, orientation, and dielectric environment **2007**, 1
- 6 Gold nanoshells as solid-phase dot assay labels **2007**, 1
- 5 Plasmon resonance of gold nanoshells: sensitivity to the local dielectric environment **2006**, 1
- 4 Gold nanoparticle sizing based on differential static light scattering spectroscopy, absorption spectroscopy, and dynamic light scattering **2004**, 1
- 3 Structure of insoluble immune complexes as studied by spectroturbidimetry and dynamic light scattering **2004**, 5475, 26 1
- 2 The morphological changes in the internal organs of laboratory animals after prolonged oral administration of gold nanoparticles. *Journal of Innovative Optical Health Sciences*, **2016**, 09, 1642004 1.2
- 1 Handling of nanoparticles with light pressure forces **2007**, 6536, 79