Nikolai Grigor Evich Khlebtsov

List of Publications by Year in Descending Order

202 papers	9,635 citations	46 h-index	95 g-index
236 ext. papers	10,676 ext. citations	4.5 avg, IF	6.85 L-index

#	Paper	IF	Citations
202	Extinction and scattering of light by nonspherical plasmonic particles in absorbing media. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2022**, 280, 108069	2.1	3
201	Photothermal and Photodynamic Therapy of Tumors with Plasmonic Nanoparticles: Challenges and Prospects.. *Materials*, **2022**, 15,	3.5	2
200	Changes in Optical Properties of Model Cholangiocarcinoma after Plasmon-Resonant Photothermal Treatment. *Photonics*, **2022**, 9, 199	2.2	
199	Metal-Specific Response of High-Resolution ICP-MS for Proteins Binding to Gold Nanoparticles in Human Serum. *Analytical Chemistry*, **2021**, 93, 14918-14922	7.8	1
198	Multifunctional plasmonic gold nanostars for cancer diagnostic and therapeutic applications. *Journal of Biophotonics*, **2021**, e202100264	3.1	
197	Tumor Phantom with Incorporated SERS Tags: Detectability in a Turbid Medium. *Photonics*, **2021**, 8, 144	2.2	2
196	Introduction to the special issue on surface-enhanced Raman spectroscopy and functionalized plasmonic nanoparticles for biomedical applications. *Journal of Innovative Optical Health Sciences*, **2021**, 14, 2102002	1.2	0
195	Plasmonic nanoparticles and nucleic acids hybrids for targeted gene delivery, bioimaging, and molecular recognition. *Journal of Innovative Optical Health Sciences*, **2021**, 14, 2130003	1.2	3
194	Analytical solutions for the surface- and orientation-averaged SERS enhancement factor of small plasmonic particles. *Journal of Raman Spectroscopy*, **2021**, 52, 285-295	2.3	4
193	Extinction, absorption, and scattering of light by plasmonic spheres embedded in an absorbing host medium. *Physical Chemistry Chemical Physics*, **2021**, 23, 23141-23157	3.6	1
192	Photostability of Contrast Agents for Photoacoustics: The Case of Gold Nanorods. *Nanomaterials*, **2021**, 11,	5.4	6
191	Small Thiols Stabilize the Shape of Gold Nanorods. *Journal of Physical Chemistry C*, **2020**, 124, 11132-11140	3.8	7
190	Optically activated and interrogated plasmonic hydrogels for applications in wound healing. *Journal of Biophotonics*, **2020**, 13, e202000135	3.1	4
189	Impact of Kapitza resistance on the stability and efficiency of photoacoustic conversion from gold nanorods. *Journal of Colloid and Interface Science*, **2020**, 578, 358-365	9.3	8
188	Advantages of Highly Spherical Gold Nanoparticles as Labels for Lateral Flow Immunoassay. *Sensors* , **2020**, 20,	3.8	12
187	Gap-enhanced Raman tags: fabrication, optical properties, and theranostic applications. *Theranostics*, **2020**, 10, 2067-2094	12.1	46
186	Petal-like Gap-Enhanced Raman Tags with Controllable Structures for High-Speed Raman Imaging. *Langmuir*, **2020**, 36, 5546-5553	4	7

185	Reexamination of Surface-Enhanced Raman Scattering from Gold Nanorods as a Function of Aspect Ratio and Shape. *Journal of Physical Chemistry C*, **2020**, 124, 10647-10658	3.8	21
184	Surface-Enhanced Raman Scattering-Based Lateral-Flow Immunoassay. *Nanomaterials*, **2020**, 10,	5.4	19
183	A novel concept of two-component dielectric function for gold nanostars: theoretical modelling and experimental verification. *Nanoscale*, **2020**, 12, 19963-19981	7.7	7
182	Polydopamine coating decreases longitudinal plasmon of Au nanorods: Experiment and simulations. *Applied Materials Today*, **2019**, 15, 67-76	6.6	10
181	Polydopamine-coated Au nanorods for targeted fluorescent cell imaging and photothermal therapy. *Beilstein Journal of Nanotechnology*, **2019**, 10, 794-803	3	11
180	Quantifying the Numbers of Gold Nanoparticles in the Test Zone of Lateral Flow Immunoassay Strips. *ACS Applied Nano Materials*, **2019**, 2, 5020-5028	5.6	61
179	Label-Free SERS Detection of Heme-Proteins with Porous Silver Nanocubes **2019**, 199-218		
178	A novel cell transfection platform based on laser optoporation mediated by Au nanostar layers. *Journal of Biophotonics*, **2019**, 12, e201800166	3.1	20
177	SERS-based lateral flow immunoassay of troponin I by using gap-enhanced Raman tags. *Nano Research*, **2019**, 12, 413-420	10	66
176	Tip-Functionalized Nanorods as Ultrabright Surface-Enhanced Raman Scattering Probes for Bioimaging in Off-Resonance Mode. *Journal of Physical Chemistry C*, **2018**, 122, 17983-17993	3.8	19
175	Plasmonic photothermal therapy: Approaches to advanced strategy. *Lasers in Surgery and Medicine*, **2018**, 50, 1025-1033	3.6	16
174	Gold Nanoparticle-Based Technologies in Photothermal/Photodynamic Treatment: The Challenges and Prospects **2018**, 151-173		2
173	Optimal design of gold nanomatryoshkas with embedded Raman reporters. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2017**, 190, 89-102	2.1	16
172	Immunological properties of gold nanoparticles. *Chemical Science*, **2017**, 8, 1719-1735	9.4	121
171	The assesment of effectiveness of plasmonic resonance photothermal therapy in tumor-bearing rats after multiple intravenous administration of gold nanorods **2017**,		1
170	Site-Selective Surface-Enhanced Raman Detection of Proteins. *ACS Nano*, **2017**, 11, 918-926	16.7	71
169	Quantitative and multiplex dot-immunoassay using gap-enhanced Raman tags. *RSC Advances*, **2017**, 7, 40834-40841	3.7	13
168	Rational Design of Ultrabright SERS Probes with Embedded Reporters for Bioimaging and Photothermal Therapy. *ACS Applied Materials & Interfaces*, **2017**, 9, 30387-30397	9.5	46

167	The effects of prolonged oral administration of gold nanoparticles on the morphology of hematopoietic and lymphoid organs **2017**,		1
166	Comprehensive thematic T-matrix reference database: A 2015–2017 update. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2017**, 202, 240-246	2.1	24
165	Impact of albumin based approaches in nanomedicine: Imaging, targeting and drug delivery. *Advances in Colloid and Interface Science*, **2017**, 246, 13-39	14.3	61
164	Optical properties of gold nanoshells on monodisperse silica cores: Experiment and simulations. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2017**, 187, 1-9	2.1	13
163	Optical Properties of Gold Nanoparticles **2017**, 1-42		1
162	Au-nanocluster-loaded human serum albumin nanoparticles with enhanced cellular uptake for fluorescent imaging. *Journal of Innovative Optical Health Sciences*, **2016**, 09, 1650004	1.2	10
161	Gold nanoparticle-aided preparation of antibodies to α-methylacyl-CoA racemase and its immunochemical detection. *Gold Bulletin*, **2016**, 49, 87-94	1.6	2
160	Gold nanoparticle-assisted polymerase chain reaction: effects of surface ligands, nanoparticle shape and material. *RSC Advances*, **2016**, 6, 110146-110154	3.7	18
159	Surface Morphology of a Gold Core Controls the Formation of Hollow or Bridged Nanogaps in Plasmonic Nanomatryoshkas and Their SERS Responses. *Journal of Physical Chemistry C*, **2016**, 120, 15385-15394	3.8	31
158	Surface-enhanced Raman scattering inside Au@Ag core/shell nanorods. *Nano Research*, **2016**, 9, 2303-2318	7.8	65
157	Comprehensive thematic T-matrix reference database: A 2014–2015 update. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2016**, 178, 276-283	2.1	26
156	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	
155	Colorimetric Evaluation of the Viability of the Microalga Dunaliella Salina as a Test Tool for Nanomaterial Toxicity. *Toxicological Sciences*, **2016**, 151, 115-25	4.4	14
154	Towards Effective Photothermal/Photodynamic Treatment Using Plasmonic Gold Nanoparticles. *International Journal of Molecular Sciences*, **2016**, 17,	6.3	94
153	Alterations of morphology of lymphoid organs and peripheral blood indicators under the influence of gold nanoparticles in rats. *Journal of Innovative Optical Health Sciences*, **2016**, 09, 1640004	1.2	2
152	Biomedical Applications of Multifunctional Gold-Based Nanocomposites. *Biochemistry (Moscow)*, **2016**, 81, 1771-1789	2.9	15
151	Multifunctional gold-based nanocomposites for theranostics. *Biomaterials*, **2016**, 108, 13-34	15.6	90
150	Laboratory test system for the evaluation of nanomaterial toxicity on Dunaliella salina microalgae. *Nanotechnologies in Russia*, **2015**, 10, 109-119	0.6	6

149	Optical properties of plasmon-resonant bare and silica-coated nanostars used for cell imaging. *Journal of Biomedical Optics*, **2015**, 20, 76017	3.5	21
148	Multifunctional Au nanoclusters for targeted bioimaging and enhanced photodynamic inactivation of Staphylococcus aureus. *RSC Advances*, **2015**, 5, 61639-61649	3.7	34
147	Gold nanoisland films as reproducible SERS substrates for highly sensitive detection of fungicides. *ACS Applied Materials & Interfaces*, **2015**, 7, 6518-29	9.5	128
146	Tuning of plasmon resonance of gold nanorods by controlled etching. *Colloid Journal*, **2015**, 77, 652-660	1.1	16
145	Au@Ag core/shell cuboids and dumbbells: Optical properties and SERS response. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2015**, 167, 64-75	2.1	44
144	The effect of laser irradiation on living cells incubated with gold nanoparticles **2015**,		2
143	Physicochemical and nanotechnological approaches to the design of 'rigid' spatial structures of DNA. *Russian Chemical Reviews*, **2015**, 84, 27-42	6.8	5
142	The morpho-functional assessment of plasmonic photothermal therapy effects on transplanted liver tumor. *Journal of Innovative Optical Health Sciences*, **2015**, 08, 1541004	1.2	9
141	Comprehensive thematic T-matrix reference database: A 2013–2014 update. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2014**, 146, 349-354	2.1	39
140	A new nanobiomaterial: particles of liquid-crystalline DNA dispersions with embedded clusters of gold nanoparticles. *Nanotechnologies in Russia*, **2014**, 9, 194-202	0.6	4
139	Overgrowth of gold nanorods by using a binary surfactant mixture. *Langmuir*, **2014**, 30, 1696-703	4	75
138	Extinction and extra-high depolarized light scattering spectra of gold nanorods with improved purity and dimension tunability: direct and inverse problems. *Physical Chemistry Chemical Physics*, **2014**, 16, 5710-22	3.6	12
137	Gold nanorods with a hematoporphyrin-loaded silica shell for dual-modality photodynamic and photothermal treatment of tumors in vivo. *Nano Research*, **2014**, 7, 325-337	10	119
136	Uptake of engineered gold nanoparticles into mammalian cells. *Chemical Reviews*, **2014**, 114, 1258-88	68.1	226
135	Comparative study of the physical, chemical, and multimodal approaches to enhancing nanoparticle transport in the skin with model dermatitis. *Nanotechnologies in Russia*, **2014**, 9, 559-570	0.6	1
134	Structural nanotechnology of nucleic acids: Designing "liquid" and "rigid" DNA nanoconstructions. *Herald of the Russian Academy of Sciences*, **2014**, 84, 252-264	0.7	1
133	Penetration of pegylated gold nanoparticles through rat placental barrier. *Bulletin of Experimental Biology and Medicine*, **2014**, 157, 383-5	0.8	20
132	Large-scale high-quality 2D silica crystals: dip-drawing formation and decoration with gold nanorods and nanospheres for SERS analysis. *Nanotechnology*, **2014**, 25, 405602	3.4	14

131	Improved size-tunable synthesis and SERS properties of Au nanostars. *Journal of Nanoparticle Research*, **2014**, 16, 1	2.3	29
130	Gold nanostructures for OCT imaging of capillary flow **2014**,		2
129	Morphological study of the internal organs in rats with alloxan diabetes and transplanted liver tumor after intravenous injection of gold nanorods. *Russian Open Medical Journal*, **2014**, 3, 0301	1.6	1
128	Enhanced photoinactivation of Staphylococcus aureus with nanocomposites containing plasmonic particles and hematoporphyrin. *Journal of Biophotonics*, **2013**, 6, 338-51	3.1	41
127	A simple Mie-type model for silica-coated gold nanocages. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2013**, 121, 23-29	2.1	12
126	Surface-Enhanced Raman Scattering Substrates Based on Self-Assembled PEGylated Gold and Gold–Silver Core–Shell Nanorods. *Journal of Physical Chemistry C*, **2013**, 117, 23162-23171	3.8	49
125	Gold nanorods as a perspective technology platform for SERS analytics. *Russian Journal of General Chemistry*, **2013**, 83, 2203-2211	0.7	4
124	DNA detection assay based on fluorescence quenching of rhodamine B by gold nanoparticles: The optical mechanisms. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2013**, 131, 34-42	2.1	10
123	Cancer laser therapy using gold nanoparticles **2013**, 659-703		4
122	T-matrix method in plasmonics: An overview. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2013**, 123, 184-217	2.1	77
121	Comprehensive T-matrix reference database: A 2012–2013 update. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2013**, 123, 145-152	2.1	29
120	Analytical and theranostic applications of gold nanoparticles and multifunctional nanocomposites. *Theranostics*, **2013**, 3, 167-80	12.1	146
119	Synthesis and optical properties of poly(N-isopropylacrylamide) nanogel containing silver nanoparticles. *Colloid Journal*, **2013**, 75, 333-338	1.1	4
118	New types of nanomaterials: powders of gold nanospheres, nanorods, nanostars, and gold-silver nanocages. *Nanotechnologies in Russia*, **2013**, 8, 209-219	0.6	18
117	SERS substrates formed by gold nanorods deposited on colloidal silica films. *Nanoscale Research Letters*, **2013**, 8, 250	5	37
116	Plasmon-resonant gold nanoparticles with variable morphology as optical labels and drug carriers for cytological research **2013**,		3
115	Analytical and Theranostic Applications of Gold Nanoparticles and Multifunctional Nanocomposites: Erratum. *Theranostics*, **2013**, 3, 1012-1012	12.1	3
114	Comprehensive T-matrix reference database: A 2009–2011 update. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2012**, 113, 1844-1852	2.1	19

113	Multiplexed dot immunoassay using Ag nanocubes, Au/Ag alloy nanoparticles, and Au/Ag nanocages. *Nano Research*, **2012**, 5, 124-134	10	37
112	Surface-enhanced raman scattering platforms on the basis of assembled gold nanorods. *Nanotechnologies in Russia*, **2012**, 7, 359-369	0.6	6
111	Gold nanoparticles in biomedical applications: recent advances and perspectives. *Chemical Society Reviews*, **2012**, 41, 2256-82	58.5	1419
110	Plasmonic nanopowders for photothermal therapy of tumors. *Langmuir*, **2012**, 28, 8994-9002	4	37
109	Study of polyol synthesis reaction parameters controlling high yield of silver nanocubes. *Colloid Journal*, **2012**, 74, 99-109	1.1	33
108	Photothermal effects induced by laser heating of gold nanorods in suspensions and inoculated tumours during in vivo experiments. *Quantum Electronics*, **2012**, 42, 380-389	1.8	25
107	Use of fractional laser microablation and ultrasound to facilitate the delivery of gold nanoparticles into skin in vivo. *Quantum Electronics*, **2012**, 42, 471-477	1.8	13
106	Combined near infrared photothermolysis and photodynamic therapy by association of gold nanoparticles and an organic dye **2011**,		4
105	Phototoxic effect of conjugates of plasmon-resonance nanoparticles with indocyanine green dye onStaphylococcus aureusinduced by IR laser radiation. *Quantum Electronics*, **2011**, 41, 354-359	1.8	26
104	Colorimetric and dynamic light scattering detection of DNA sequences by using positively charged gold nanospheres: a comparative study with gold nanorods. *Nanotechnology*, **2011**, 22, 285501	3.4	26
103	A New T-Matrix Solvable Model for Nanorods: TEM-Based Ensemble Simulations Supported by Experiments. *Journal of Physical Chemistry C*, **2011**, 115, 6317-6323	3.8	46
102	Nanocomposites containing silica-coated gold-silver nanocages and Yb-2,4-dimethoxyhematoporphyrin: multifunctional capability of IR-luminescence detection, photosensitization, and photothermolysis. *ACS Nano*, **2011**, 5, 7077-89	16.7	127
101	Biodistribution and toxicity of gold nanoparticles. *Nanotechnologies in Russia*, **2011**, 6, 17-42	0.6	10
100	Composite multifunctional nanoparticles based on silica-coated gold-silver nanocages functionalized by Yb-hematoporphyrin. *Nanotechnologies in Russia*, **2011**, 6, 496-503	0.6	8
99	On the measurement of gold nanoparticle sizes by the dynamic light scattering method. *Colloid Journal*, **2011**, 73, 118-127	1.1	132
98	Effects of shape and charge of colloidal gold nanoparticles in colorimetric determination of DNA sequences. *Colloid Journal*, **2011**, 73, 368-377	1.1	3
97	Interaction of albumin and □globulin molecules with gold nanoparticles in water solutions. *Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika)*, **2011**, 66, 449-452	0.7	4
96	Biodistribution and toxicity of engineered gold nanoparticles: a review of in vitro and in vivo studies. *Chemical Society Reviews*, **2011**, 40, 1647-71	58.5	1164

95	Mutagenic effect of gold nanoparticles in the micronucleus assay. *Bulletin of Experimental Biology and Medicine*, **2011**, 151, 731-3	0.8	6
94	Quantitative cell bioimaging using gold-nanoshell conjugates and phage antibodies. *Journal of Biophotonics*, **2011**, 4, 74-83	3.1	25
93	Attenuation, scattering, and depolarization of light by gold nanorods with silver shells. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2010**, 108, 59-69	0.7	8
92	Anisotropic properties of plasmonic nanoparticles: depolarized light scattering, dichroism, and birefringence. *Journal of Nanophotonics*, **2010**, 4, 041587	1.1	22
91	Tunable depolarized light scattering from gold and gold/silver nanorods. *Physical Chemistry Chemical Physics*, **2010**, 12, 3210-8	3.6	32
90	Plasmonic Nanoparticles. *Series in Medical Physics and Biomedical Engineering*, **2010**, 37-85		8
89	Spectroturbidimetric determination of the sizes of poly(ethylene glycol)-induced insoluble immune complex particles. *Colloid Journal*, **2010**, 72, 504-511	1.1	2
88	Silver nanocubes and gold nanocages: Fabrication and optical and photothermal properties. *Nanotechnologies in Russia*, **2010**, 5, 454-468	0.6	33
87	Optical properties and biomedical applications of plasmonic nanoparticles. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2010**, 111, 1-35	2.1	445
86	Comprehensive T-matrix reference database: A 2007–2009 update. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2010**, 111, 650-658	2.1	49
85	Cancer Laser Thermotherapy Mediated by Plasmonic Nanoparticles. *Series in Medical Physics and Biomedical Engineering*, **2010**, 763-797		6
84	Circulation and distribution of gold nanoparticles and induced alterations of tissue morphology at intravenous particle delivery. *Journal of Biophotonics*, **2009**, 2, 292-302	3.1	121
83	On the Enhanced Antibacterial Activity of Antibiotics Mixed with Gold Nanoparticles. *Nanoscale Research Letters*, **2009**, 4, 794-801	5	157
82	Fabrication, stabilization, and optical properties of gold nanorods with silver shells. *Nanotechnologies in Russia*, **2009**, 4, 453-466	0.6	6
81	Laser-induced tissue hyperthermia mediated by gold nanoparticles: toward cancer phototherapy. *Journal of Biomedical Optics*, **2009**, 14, 021016	3.5	145
80	Spectroturbidimetric determination of the size, concentration, and refractive index of silica nanoparticles. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2008**, 105, 732-738	0.7	5
79	Gold nanoshell photomodification under a single-nanosecond laser pulse accompanied by color-shifting and bubble formation phenomena. *Nanotechnology*, **2008**, 19, 015701	3.4	58
78	Optics and biophotonics of nanoparticles with a plasmon resonance. *Quantum Electronics*, **2008**, 38, 504-529	1.2	174

77	Dynamic of gold nanoparticles labeling studied on the basis of OCT and backscattering spectra of tissues and phantoms **2008**,		1
76	Laser photothermolysis of biological tissues by using plasmon-resonance particles. *Quantum Electronics*, **2008**, 38, 536-542	1.8	8
75	Enhanced solid-phase immunoassay using gold nanoshells: effect of nanoparticle optical properties. *Nanotechnology*, **2008**, 19, 435703	3.4	32
74	Coupled plasmon resonances in monolayers of metal nanoparticles and nanoshells. *Physical Review B*, **2008**, 77,	3.3	65
73	Determination of the size, concentration, and refractive index of silica nanoparticles from turbidity spectra. *Langmuir*, **2008**, 24, 8964-70	4	89
72	Influence of gold nanoparticles on platelets functional activity in vitro **2008**,		1
71	Comprehensive T-matrix reference database: A 2006□7 update. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2008**, 109, 1447-1460	2.1	46
70	Determination of size and concentration of gold nanoparticles from extinction spectra. *Analytical Chemistry*, **2008**, 80, 6620-5	7.8	206
69	Observation of Extra-High Depolarized Light Scattering Spectra from Gold Nanorods. *Journal of Physical Chemistry C*, **2008**, 112, 12760-12768	3.8	51
68	Near-infrared laser photothermal therapy of cancer by using gold nanoparticles: Computer simulations and experiment. *Medical Laser Application: International Journal for Laser Treatment and Research*, **2007**, 22, 199-206		55
67	Biosensing potential of silica/gold nanoshells: Sensitivity of plasmon resonance to the local dielectric environment. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2007**, 106, 154-169	2.1	42
66	Comprehensive T-matrix reference database: A 2004□6 update. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2007**, 106, 304-324	2.1	61
65	On the extinction multipole plasmons in gold nanorods. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2007**, 107, 306-314	2.1	16
64	Spectra of resonance light scattering of gold nanoshells: Effects of polydispersity and limited electron free path. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2007**, 102, 233-241	0.7	28
63	Multipole Plasmons in Metal Nanorods: Scaling Properties and Dependence on Particle Size, Shape, Orientation, and Dielectric Environment. *Journal of Physical Chemistry C*, **2007**, 111, 11516-11527	3.8	162
62	A solid-phase dot assay using silica/gold nanoshells. *Nanoscale Research Letters*, **2007**, 2, 6-11	5	21
61	Application of gold nanoparticles to x-ray diagnostics and photothermal therapy of cancer **2007**, 6536, 86		2
60	Near-infrared laser photothermal therapy and photodynamic inactivation of cells by using gold nanoparticles and dyes **2007**,		3

59	Multipole plasmons in gold nanorods: scaling properties and dependence on the particle size, shape, orientation, and dielectric environment **2007**,		1
58	Permeability adjustment of polyelectrolyte micro- and nanocapsules by laser irradiation **2007**,		1
57	Gold nanoshells as solid-phase dot assay labels **2007**,		1
56	Optical properties of gold-nanoshell planar array **2007**,		3
55	Photoacoustic flow cytometry: principle and application for real-time detection of circulating single nanoparticles, pathogens, and contrast dyes in vivo. *Journal of Biomedical Optics*, **2007**, 12, 051503	3.5	120
54	Optimization of gold nanostructers for laser killing of cancer cells **2006**,		1
53	Optical polarizability of metal nanoparticles and their biospheric conjugates **2006**,		2
52	Plasmon resonance of gold nanoshells: sensitivity to the local dielectric environment **2006**,		1
51	Absorption and scattering of light by a dimer of metal nanospheres: comparison of dipole and multipole approaches. *Nanotechnology*, **2006**, 17, 1437-1445	3.4	95
50	In vivo photoacoustic flow cytometry for monitoring of circulating single cancer cells and contrast agents. *Optics Letters*, **2006**, 31, 3623-5	3	172
49	Observation of time-dependent single-particle light scattering from gold nanorods and nanospheres by using unpolarized dark-field microscopy **2006**,		3
48	Depolarization of light scattered by gold nanospheres and nanorods. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2006**, 100, 448-455	0.7	14
47	Ultrasharp light-scattering resonances of structured nanospheres: effects of size-dependent dielectric functions. *Journal of Biomedical Optics*, **2006**, 11, 044002	3.5	33
46	Optical amplification of photothermal therapy with gold nanoparticles and nanoclusters. *Nanotechnology*, **2006**, 17, 5167-5179	3.4	314
45	Gold nanorods: Synthesis and optical properties. *Colloid Journal*, **2006**, 68, 661-678	1.1	97
44	Preparation and optical scattering characterization of gold nanorods and their application to a dot-immunogold assay. *Applied Optics*, **2005**, 44, 6285-95	1.7	69
43	Can the light scattering depolarization ratio of small particles be greater than 1/3?. *Journal of Physical Chemistry B*, **2005**, 109, 13578-84	3.4	51
42	UV-VIS extinction spectra of gold particle coated by oligonucleotide shell **2005**,		1

41	Optical properties of gold spheroidal particles and nanoshells: Effect of the external dielectric medium **2005**,		6
40	A protein assay based on colloidal gold conjugates with trypsin. *Analytical Biochemistry*, **2005**, 341, 16-21	3.1	40
39	The effect of the size, shape, and structure of metal nanoparticles on the dependence of their optical properties on the refractive index of a disperse medium. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2005**, 98, 77-83	0.7	108
38	Optical Properties of Colloidal Gold-Oligothymidine Conjugates and Their Variations on Hybridization with Polyadenylic Acid. *Colloid Journal*, **2005**, 67, 413-421	1.1	6
37	Synthesis, fractionation, and optical characterization of Au-Ag composite nanorods **2005**,		3
36	Dependence of the optical properties of metal nanoparticles on the external dielectric medium: effects of the particle size, shape, and structure **2005**,		4
35	Gold nanoparticle sizing based on differential static light scattering spectroscopy, absorption spectroscopy, and dynamic light scattering **2004**,		1
34	Structure of insoluble immune complexes as studied by spectroturbidimetry and dynamic light scattering **2004**, 5475, 26		1
33	Measurement of mean size and evaluation of polydispersity of gold nanoparticles from spectra of optical absorption and scattering. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2004**, 96, 128-135	0.7	46
32	A new spectral resonance of metallic nanorods. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2004**, 97, 97-99	0.7	16
31	Plasmon resonances of silver and gold nanorods **2004**,		7
30	T-matrix theory of electromagnetic scattering by partciles and its applications: a comprehensive reference database. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2004**, 88, 357-406	2.1	172
29	Differential light-scattering spectroscopy: a new approach to studying of colloidal gold nanosensors. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2004**, 89, 133-142	2.1	38
28	Optical models for conjugates of gold and silver nanoparticles with biomacromolecules. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2004**, 89, 143-153	2.1	36
27	Study of complex micellar systems by static and dynamic light scattering **2004**, 5475, 12		2
26	A method for studying insoluble immune complexes. *Biochimica Et Biophysica Acta - General Subjects*, **2004**, 1670, 199-207	4	12
25	A Multilayer Model for Gold Nanoparticle Bioconjugates: Application to Study of Gelatin and Human IgG Adsorption Using Extinction and Light Scattering Spectra and the Dynamic Light Scattering Method. *Colloid Journal*, **2003**, 65, 622-635	1.1	45
24	On the Dependence of the Light Scattering Intensity on the Averaged Size of Polydisperse Particles: Comments on the Paper by M.S. Dyuzheva et al. (Colloid J., 2002, vol. 64, no. 1, p. 39). *Colloid Journal*, **2003**, 65, 652-655	1.1	13

23	Two-Layer Model of Colloidal Gold Bioconjugates and Its Application to the Optimization of Nanosensors. *Colloid Journal*, **2003**, 65, 508-518	1.1	15
22	Studies of phosphatidylcholine vesicles by spectroturbidimetric and dynamic light scattering methods. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2003**, 79-80, 825-838	2.1	9
21	Orientation-averaged radiative properties of an arbitrary configuration of scatterers. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2003**, 79-80, 1121-1137	2.1	58
20	Differential Light Scattering Spectroscopy for Studying Biospecific Assembling of Gold Nanoparticles with Protein or Oligonucleotide Probes. *Colloid Journal*, **2002**, 64, 671-680	1.1	15
19	Quantitative immunoassay method based on the extinction spectra of colloidal gold bioconjugates **2001**, 4241, 37		2
18	Spectroturbidimetry of Liposome Suspensions. *Colloid Journal*, **2001**, 63, 491-498	1.1	5
17	Structural Anisotropy of Fractal Aggregates and Its Exhibition in Electrooptical Effects. *Colloid Journal*, **2001**, 63, 481-490	1.1	1
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