

Nikolai Grigor Evich Khlebtsov

List of Publications by Citations

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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 | Gold nanoparticles in biomedical applications: recent advances and perspectives. <i>Chemical Society Reviews</i> , 2012 , 41, 2256-82 | 58.5 | 1419 |
| 201 | Biodistribution and toxicity of engineered gold nanoparticles: a review of in vitro and in vivo studies. <i>Chemical Society Reviews</i> , 2011 , 40, 1647-71 | 58.5 | 1164 |
| 200 | Optical properties and biomedical applications of plasmonic nanoparticles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010 , 111, 1-35 | 2.1 | 445 |
| 199 | Optical amplification of photothermal therapy with gold nanoparticles and nanoclusters. <i>Nanotechnology</i> , 2006 , 17, 5167-5179 | 3.4 | 314 |
| 198 | Uptake of engineered gold nanoparticles into mammalian cells. <i>Chemical Reviews</i> , 2014 , 114, 1258-88 | 68.1 | 226 |
| 197 | Determination of size and concentration of gold nanoparticles from extinction spectra. <i>Analytical Chemistry</i> , 2008 , 80, 6620-5 | 7.8 | 206 |
| 196 | Optics and biophotonics of nanoparticles with a plasmon resonance. <i>Quantum Electronics</i> , 2008 , 38, 504-589 | 174 | |
| 195 | In vivo photoacoustic flow cytometry for monitoring of circulating single cancer cells and contrast agents. <i>Optics Letters</i> , 2006 , 31, 3623-5 | 3 | 172 |
| 194 | T-matrix theory of electromagnetic scattering by particles and its applications: a comprehensive reference database. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2004 , 88, 357-406 | 2.1 | 172 |
| 193 | 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 |
| 192 | On the Enhanced Antibacterial Activity of Antibiotics Mixed with Gold Nanoparticles. <i>Nanoscale Research Letters</i> , 2009 , 4, 794-801 | 5 | 157 |
| 191 | Analytical and theranostic applications of gold nanoparticles and multifunctional nanocomposites. <i>Theranostics</i> , 2013 , 3, 167-80 | 12.1 | 146 |
| 190 | Laser-induced tissue hyperthermia mediated by gold nanoparticles: toward cancer phototherapy. <i>Journal of Biomedical Optics</i> , 2009 , 14, 021016 | 3.5 | 145 |
| 189 | On the measurement of gold nanoparticle sizes by the dynamic light scattering method. <i>Colloid Journal</i> , 2011 , 73, 118-127 | 1.1 | 132 |
| 188 | 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 |
| 187 | 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 |
| 186 | Immunological properties of gold nanoparticles. <i>Chemical Science</i> , 2017 , 8, 1719-1735 | 9.4 | 121 |

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| 185 | 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 |
| 184 | Photoacoustic flow cytometry: principle and application for real-time detection of circulating single nanoparticles, pathogens, and contrast dyes in vivo. <i>Journal of Biomedical Optics</i> , 2007 , 12, 051503 | 3.5 | 120 |
| 183 | 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 |
| 182 | Spectral Extinction of Colloidal Gold and Its Biospecific Conjugates. <i>Journal of Colloid and Interface Science</i> , 1996 , 180, 436-445 | 9.3 | 116 |
| 181 | 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. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2005 , 98, 77-83 | 0.7 | 108 |
| 180 | Gold nanorods: Synthesis and optical properties. <i>Colloid Journal</i> , 2006 , 68, 661-678 | 1.1 | 97 |
| 179 | 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 |
| 178 | Towards Effective Photothermal/Photodynamic Treatment Using Plasmonic Gold Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2016 , 17, | 6.3 | 94 |
| 177 | Multifunctional gold-based nanocomposites for theranostics. <i>Biomaterials</i> , 2016 , 108, 13-34 | 15.6 | 90 |
| 176 | Determination of the size, concentration, and refractive index of silica nanoparticles from turbidity spectra. <i>Langmuir</i> , 2008 , 24, 8964-70 | 4 | 89 |
| 175 | T-matrix method in plasmonics: An overview. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013 , 123, 184-217 | 2.1 | 77 |
| 174 | Overgrowth of gold nanorods by using a binary surfactant mixture. <i>Langmuir</i> , 2014 , 30, 1696-703 | 4 | 75 |
| 173 | Oriental averaging of light-scattering observables in the J-matrix approach. <i>Applied Optics</i> , 1992 , 31, 5359-65 | 1.7 | 72 |
| 172 | Site-Selective Surface-Enhanced Raman Detection of Proteins. <i>ACS Nano</i> , 2017 , 11, 918-926 | 16.7 | 71 |
| 171 | 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 |
| 170 | SERS-based lateral flow immunoassay of troponin I by using gap-enhanced Raman tags. <i>Nano Research</i> , 2019 , 12, 413-420 | 10 | 66 |
| 169 | Surface-enhanced Raman scattering inside Au@Ag core/shell nanorods. <i>Nano Research</i> , 2016 , 9, 2303-2318 | 18 | 65 |
| 168 | Coupled plasmon resonances in monolayers of metal nanoparticles and nanoshells. <i>Physical Review B</i> , 2008 , 77, | 3.3 | 65 |

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| 167 | 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 |
| 166 | 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 |
| 165 | Comprehensive T-matrix reference database: A 2004-2006 update. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2007 , 106, 304-324 | 2.1 | 61 |
| 164 | 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 |
| 163 | Orientation-averaged radiative properties of an arbitrary configuration of scatterers. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2003 , 79-80, 1121-1137 | 2.1 | 58 |
| 162 | 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 |
| 161 | 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 |
| 160 | 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 |
| 159 | Surface-Enhanced Raman Scattering Substrates Based on Self-Assembled PEGylated Gold and Silver Core-Shell Nanorods. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 23162-23171 | 3.8 | 49 |
| 158 | Comprehensive T-matrix reference database: A 2007-2009 update. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010 , 111, 650-658 | 2.1 | 49 |
| 157 | Gap-enhanced Raman tags: fabrication, optical properties, and theranostic applications. <i>Theranostics</i> , 2020 , 10, 2067-2094 | 12.1 | 46 |
| 156 | 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 |
| 155 | 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 |
| 154 | Comprehensive T-matrix reference database: A 2006-2007 update. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2008 , 109, 1447-1460 | 2.1 | 46 |
| 153 | Measurement of mean size and evaluation of polydispersity of gold nanoparticles from spectra of optical absorption and scattering. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2004 , 96, 128-135 | 0.7 | 46 |
| 152 | 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. <i>Colloid Journal</i> , 2003 , 65, 622-635 | 1.1 | 45 |
| 151 | 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 |
| 150 | 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 |

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| 149 | Enhanced photoinactivation of <i>Staphylococcus aureus</i> with nanocomposites containing plasmonic particles and hematoporphyrin. <i>Journal of Biophotonics</i> , 2013 , 6, 338-51 | 3.1 | 41 |
| 148 | A protein assay based on colloidal gold conjugates with trypsin. <i>Analytical Biochemistry</i> , 2005 , 341, 16-21 | 3.1 | 40 |
| 147 | Comprehensive thematic T-matrix reference database: A 2013-2014 update. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014 , 146, 349-354 | 2.1 | 39 |
| 146 | Differential light-scattering spectroscopy: a new approach to studying of colloidal gold nanosensors. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2004 , 89, 133-142 | 2.1 | 38 |
| 145 | Multiplexed dot immunoassay using Ag nanocubes, Au/Ag alloy nanoparticles, and Au/Ag nanocages. <i>Nano Research</i> , 2012 , 5, 124-134 | 10 | 37 |
| 144 | Plasmonic nanopowders for photothermal therapy of tumors. <i>Langmuir</i> , 2012 , 28, 8994-9002 | 4 | 37 |
| 143 | SERS substrates formed by gold nanorods deposited on colloidal silica films. <i>Nanoscale Research Letters</i> , 2013 , 8, 250 | 5 | 37 |
| 142 | Optical models for conjugates of gold and silver nanoparticles with biomacromolecules. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2004 , 89, 143-153 | 2.1 | 36 |
| 141 | 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 |
| 140 | Study of polyol synthesis reaction parameters controlling high yield of silver nanocubes. <i>Colloid Journal</i> , 2012 , 74, 99-109 | 1.1 | 33 |
| 139 | Silver nanocubes and gold nanocages: Fabrication and optical and photothermal properties. <i>Nanotechnologies in Russia</i> , 2010 , 5, 454-468 | 0.6 | 33 |
| 138 | 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 |
| 137 | Tunable depolarized light scattering from gold and gold/silver nanorods. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 3210-8 | 3.6 | 32 |
| 136 | Enhanced solid-phase immunoassay using gold nanoshells: effect of nanoparticle optical properties. <i>Nanotechnology</i> , 2008 , 19, 435703 | 3.4 | 32 |
| 135 | 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 | 2.8 | 31 |
| 134 | Improved size-tunable synthesis and SERS properties of Au nanostars. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1 | 2.3 | 29 |
| 133 | Comprehensive T-matrix reference database: A 2012-2013 update. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013 , 123, 145-152 | 2.1 | 29 |
| 132 | Spectra of resonance light scattering of gold nanoshells: Effects of polydispersity and limited electron free path. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2007 , 102, 233-241 | 0.7 | 28 |

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| 131 | Comprehensive thematic T-matrix reference database: A 2014–2015 update. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016 , 178, 276-283 | 2.1 | 26 |
| 130 | Phototoxic effect of conjugates of plasmon-resonance nanoparticles with indocyanine green dye on <i>Staphylococcus aureus</i> induced by IR laser radiation. <i>Quantum Electronics</i> , 2011 , 41, 354-359 | 1.8 | 26 |
| 129 | Colorimetric and dynamic light scattering detection of DNA sequences by using positively charged gold nanospheres: a comparative study with gold nanorods. <i>Nanotechnology</i> , 2011 , 22, 285501 | 3.4 | 26 |
| 128 | Photothermal effects induced by laser heating of gold nanorods in suspensions and inoculated tumours during in vivo experiments. <i>Quantum Electronics</i> , 2012 , 42, 380-389 | 1.8 | 25 |
| 127 | Quantitative cell bioimaging using gold-nanoshell conjugates and phage antibodies. <i>Journal of Biophotonics</i> , 2011 , 4, 74-83 | 3.1 | 25 |
| 126 | Comprehensive thematic T-matrix reference database: A 2015–2017 update. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 202, 240-246 | 2.1 | 24 |
| 125 | The linear dichroism and birefringence of colloidal dispersions: Approximate and exact approaches. <i>Journal of Colloid and Interface Science</i> , 1991 , 146, 463-478 | 9.3 | 23 |
| 124 | Anisotropic properties of plasmonic nanoparticles: depolarized light scattering, dichroism, and birefringence. <i>Journal of Nanophotonics</i> , 2010 , 4, 041587 | 1.1 | 22 |
| 123 | Optical properties of plasmon-resonant bare and silica-coated nanostars used for cell imaging. <i>Journal of Biomedical Optics</i> , 2015 , 20, 76017 | 3.5 | 21 |
| 122 | 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 |
| 121 | A solid-phase dot assay using silica/gold nanoshells. <i>Nanoscale Research Letters</i> , 2007 , 2, 6-11 | 5 | 21 |
| 120 | Penetration of pegylated gold nanoparticles through rat placental barrier. <i>Bulletin of Experimental Biology and Medicine</i> , 2014 , 157, 383-5 | 0.8 | 20 |
| 119 | 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 |
| 118 | Tip-Functionalized 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 |
| 117 | Comprehensive T-matrix reference database: A 2009–2011 update. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012 , 113, 1844-1852 | 2.1 | 19 |
| 116 | Surface-Enhanced Raman Scattering-Based Lateral-Flow Immunoassay. <i>Nanomaterials</i> , 2020 , 10, | 5.4 | 19 |
| 115 | Gold nanoparticle-assisted polymerase chain reaction: effects of surface ligands, nanoparticle shape and material. <i>RSC Advances</i> , 2016 , 6, 110146-110154 | 3.7 | 18 |
| 114 | New types of nanomaterials: powders of gold nanospheres, nanorods, nanostars, and gold-silver nanocages. <i>Nanotechnologies in Russia</i> , 2013 , 8, 209-219 | 0.6 | 18 |

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| 113 | Optimal design of gold nanomaterials with embedded Raman reporters. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 190, 89-102 | 2.1 | 16 |
| 112 | Tuning of plasmon resonance of gold nanorods by controlled etching. <i>Colloid Journal</i> , 2015 , 77, 652-660 | 1.1 | 16 |
| 111 | Plasmonic photothermal therapy: Approaches to advanced strategy. <i>Lasers in Surgery and Medicine</i> , 2018 , 50, 1025-1033 | 3.6 | 16 |
| 110 | On the extinction multipole plasmons in gold nanorods. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2007 , 107, 306-314 | 2.1 | 16 |
| 109 | A new spectral resonance of metallic nanorods. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2004 , 97, 97-99 | 0.7 | 16 |
| 108 | Optics of Fractal Clusters in the Anomalous Diffraction Approximation. <i>Journal of Modern Optics</i> , 1993 , 40, 2221-2235 | 1.1 | 16 |
| 107 | Structure Factor and Exponent of Scattering by Polydisperse Fractal Colloidal Aggregates. <i>Journal of Colloid and Interface Science</i> , 1994 , 163, 145-151 | 9.3 | 16 |
| 106 | Differential Light Scattering Spectroscopy for Studying Biospecific Assembling of Gold Nanoparticles with Protein or Oligonucleotide Probes. <i>Colloid Journal</i> , 2002 , 64, 671-680 | 1.1 | 15 |
| 105 | Two-Layer Model of Colloidal Gold Bioconjugates and Its Application to the Optimization of Nanosensors. <i>Colloid Journal</i> , 2003 , 65, 508-518 | 1.1 | 15 |
| 104 | Biomedical Applications of Multifunctional Gold-Based Nanocomposites. <i>Biochemistry (Moscow)</i> , 2016 , 81, 1771-1789 | 2.9 | 15 |
| 103 | Colorimetric Evaluation of the Viability of the Microalga <i>Dunaliella Salina</i> as a Test Tool for Nanomaterial Toxicity. <i>Toxicological Sciences</i> , 2016 , 151, 115-25 | 4.4 | 14 |
| 102 | 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 |
| 101 | Electro-optical properties of microbial cells as affected by acrylamide metabolism. <i>Analytica Chimica Acta</i> , 1997 , 347, 241-247 | 6.6 | 14 |
| 100 | Depolarization of light scattered by gold nanospheres and nanorods. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2006 , 100, 448-455 | 0.7 | 14 |
| 99 | Quantitative and multiplex dot-immunoassay using gap-enhanced Raman tags. <i>RSC Advances</i> , 2017 , 7, 40834-40841 | 3.7 | 13 |
| 98 | 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 |
| 97 | Use of fractional laser microablation and ultrasound to facilitate the delivery of gold nanoparticles into skin in vivo. <i>Quantum Electronics</i> , 2012 , 42, 471-477 | 1.8 | 13 |
| 96 | 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. (<i>Colloid J.</i> , 2002, vol. 64, no. 1, p. 39). <i>Colloid Journal</i> , 2003 , 65, 652-655 | 1.1 | 13 |

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| 95 | Advantages of Highly Spherical Gold Nanoparticles as Labels for Lateral Flow Immunoassay. <i>Sensors</i> , 2020 , 20, | 3.8 | 12 |
| 94 | 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 |
| 93 | 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 |
| 92 | A method for studying insoluble immune complexes. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2004 , 1670, 199-207 | 4 | 12 |
| 91 | Polydopamine-coated Au nanorods for targeted fluorescent cell imaging and photothermal therapy. <i>Beilstein Journal of Nanotechnology</i> , 2019 , 10, 794-803 | 3 | 11 |
| 90 | 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 |
| 89 | Polydopamine coating decreases longitudinal plasmon of Au nanorods: Experiment and simulations. <i>Applied Materials Today</i> , 2019 , 15, 67-76 | 6.6 | 10 |
| 88 | DNA detection assay based on fluorescence quenching of rhodamine B by gold nanoparticles: The optical mechanisms. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013 , 131, 34-42 | 2.1 | 10 |
| 87 | Biodistribution and toxicity of gold nanoparticles. <i>Nanotechnologies in Russia</i> , 2011 , 6, 17-42 | 0.6 | 10 |
| 86 | Relaxation optic phenomena in polydisperse suspensions and determination of particle sizes using transmitted light parameters. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1999 , 148, 17-28 | 5.1 | 10 |
| 85 | Spectroturbidimetry of fractal clusters: test of density correlation function cutoff. <i>Applied Optics</i> , 1996 , 35, 4261-70 | 1.7 | 10 |
| 84 | The morpho-functional assessment of plasmonic photothermal therapy effects on transplanted liver tumor. <i>Journal of Innovative Optical Health Sciences</i> , 2015 , 08, 1541004 | 1.2 | 9 |
| 83 | Studies of phosphatidylcholine vesicles by spectroturbidimetric and dynamic light scattering methods. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2003 , 79-80, 825-838 | 2.1 | 9 |
| 82 | An approximate method for calculating scattering and absorption of light by fractal aggregates. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2000 , 88, 594-601 | 0.7 | 9 |
| 81 | 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 |
| 80 | Composite multifunctional nanoparticles based on silica-coated gold-silver nanocages functionalized by Yb-hematoporphyrin. <i>Nanotechnologies in Russia</i> , 2011 , 6, 496-503 | 0.6 | 8 |
| 79 | Attenuation, scattering, and depolarization of light by gold nanorods with silver shells. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2010 , 108, 59-69 | 0.7 | 8 |
| 78 | Plasmonic Nanoparticles. <i>Series in Medical Physics and Biomedical Engineering</i> , 2010 , 37-85 | | 8 |

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| 77 | Laser photothermolysis of biological tissues by using plasmon-resonance particles. <i>Quantum Electronics</i> , 2008 , 38, 536-542 | 1.8 | 8 |
| 76 | Small Thiols Stabilize the Shape of Gold Nanorods. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 11132-11140 | 3.8 | 7 |
| 75 | Petal-like Gap-Enhanced Raman Tags with Controllable Structures for High-Speed Raman Imaging. <i>Langmuir</i> , 2020 , 36, 5546-5553 | 4 | 7 |
| 74 | Plasmon resonances of silver and gold nanorods 2004 , | | 7 |
| 73 | A novel concept of two-component dielectric function for gold nanostars: theoretical modelling and experimental verification. <i>Nanoscale</i> , 2020 , 12, 19963-19981 | 7.7 | 7 |
| 72 | Laboratory test system for the evaluation of nanomaterial toxicity on <i>Dunaliella salina</i> microalgae. <i>Nanotechnologies in Russia</i> , 2015 , 10, 109-119 | 0.6 | 6 |
| 71 | Surface-enhanced raman scattering platforms on the basis of assembled gold nanorods. <i>Nanotechnologies in Russia</i> , 2012 , 7, 359-369 | 0.6 | 6 |
| 70 | Mutagenic effect of gold nanoparticles in the micronucleus assay. <i>Bulletin of Experimental Biology and Medicine</i> , 2011 , 151, 731-3 | 0.8 | 6 |
| 69 | Fabrication, stabilization, and optical properties of gold nanorods with silver shells. <i>Nanotechnologies in Russia</i> , 2009 , 4, 453-466 | 0.6 | 6 |
| 68 | Optical properties of gold spheroidal particles and nanoshells: Effect of the external dielectric medium 2005 , | | 6 |
| 67 | Optical Properties of Colloidal Gold-Oligothymidine Conjugates and Their Variations on Hybridization with Polyadenylic Acid. <i>Colloid Journal</i> , 2005 , 67, 413-421 | 1.1 | 6 |
| 66 | Oriental averaging of integrated cross sections in the discrete dipole method. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2001 , 90, 408-415 | 0.7 | 6 |
| 65 | Electrooptic effects in dilute suspensions of bacterial cells and fractal aggregates. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1999 , 63, 469-478 | 2.1 | 6 |
| 64 | Integral equation for light scattering problems: Application to the orientationally induced birefringence of colloidal dispersions. <i>Journal of Colloid and Interface Science</i> , 1991 , 142, 396-408 | 9.3 | 6 |
| 63 | Cancer Laser Thermotherapy Mediated by Plasmonic Nanoparticles. <i>Series in Medical Physics and Biomedical Engineering</i> , 2010 , 763-797 | | 6 |
| 62 | Photostability of Contrast Agents for Photoacoustics: The Case of Gold Nanorods. <i>Nanomaterials</i> , 2021 , 11, | 5.4 | 6 |
| 61 | Physicochemical and nanotechnological approaches to the design of 'rigid' spatial structures of DNA. <i>Russian Chemical Reviews</i> , 2015 , 84, 27-42 | 6.8 | 5 |
| 60 | Spectroturbidimetric determination of the size, concentration, and refractive index of silica nanoparticles. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2008 , 105, 732-738 | 8.7 | 5 |

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| 59 | Spectroturbidimetry of Liposome Suspensions. <i>Colloid Journal</i> , 2001 , 63, 491-498 | 1.1 | 5 |
| 58 | Anisotropic and spectral properties of biological scattering objects with the ordered particle orientation 1994 , 2082, 33 | | 5 |
| 57 | Optically activated and interrogated plasmonic hydrogels for applications in wound healing. <i>Journal of Biophotonics</i> , 2020 , 13, e202000135 | 3.1 | 4 |
| 56 | A new nanobiomaterial: particles of liquid-crystalline DNA dispersions with embedded clusters of gold nanoparticles. <i>Nanotechnologies in Russia</i> , 2014 , 9, 194-202 | 0.6 | 4 |
| 55 | Gold nanorods as a perspective technology platform for SERS analytics. <i>Russian Journal of General Chemistry</i> , 2013 , 83, 2203-2211 | 0.7 | 4 |
| 54 | Cancer laser therapy using gold nanoparticles 2013 , 659-703 | | 4 |
| 53 | Synthesis and optical properties of poly(N-isopropylacrylamide) nanogel containing silver nanoparticles. <i>Colloid Journal</i> , 2013 , 75, 333-338 | 1.1 | 4 |
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