

Paresh Chandra Ray

List of Publications by Year in descending order

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153
papers

13,128
citations

28274

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22832

112
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159
all docs

159
docs citations

159
times ranked

18296
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms of nanotoxicity: Generation of reactive oxygen species. <i>Journal of Food and Drug Analysis</i> , 2014, 22, 64-75.	1.9	1,061
2	Size and Shape Dependent Second Order Nonlinear Optical Properties of Nanomaterials and Their Application in Biological and Chemical Sensing. <i>Chemical Reviews</i> , 2010, 110, 5332-5365.	47.7	673
3	Gold Nanoparticle Based Label-Free SERS Probe for Ultrasensitive and Selective Detection of Trinitrotoluene. <i>Journal of the American Chemical Society</i> , 2009, 131, 13806-13812.	13.7	652
4	Molecular toxicity mechanism of nanosilver. <i>Journal of Food and Drug Analysis</i> , 2014, 22, 116-127.	1.9	621
5	Toxicity and Environmental Risks of Nanomaterials: Challenges and Future Needs. <i>Journal of Environmental Science and Health, Part C: Environmental Carcinogenesis and Ecotoxicology Reviews</i> , 2009, 27, 1-35.	2.9	593
6	Selective Detection of Mercury (II) Ion Using Nonlinear Optical Properties of Gold Nanoparticles. <i>Journal of the American Chemical Society</i> , 2008, 130, 8038-8043.	13.7	419
7	Nanomaterials for targeted detection and photothermal killing of bacteria. <i>Chemical Society Reviews</i> , 2012, 41, 3193.	38.1	416
8	Gold Nano-Popcorn-Based Targeted Diagnosis, Nanotherapy Treatment, and In Situ Monitoring of Photothermal Therapy Response of Prostate Cancer Cells Using Surface-Enhanced Raman Spectroscopy. <i>Journal of the American Chemical Society</i> , 2010, 132, 18103-18114.	13.7	345
9	Challenge in understanding size and shape dependent toxicity of gold nanomaterials in human skin keratinocytes. <i>Chemical Physics Letters</i> , 2008, 463, 145-149.	2.6	319
10	Gold Nanoparticle-Based Miniaturized Nanomaterial Surface Energy Transfer Probe for Rapid and Ultrasensitive Detection of Mercury in Soil, Water, and Fish. <i>ACS Nano</i> , 2007, 1, 208-214.	14.6	284
11	Use of Gold Nanoparticles in a Simple Colorimetric and Ultrasensitive Dynamic Light Scattering Assay: Selective Detection of Arsenic in Groundwater. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9668-9671.	13.8	273
12	Multifunctional Oval-Shaped Gold-Nanoparticle-Based Selective Detection of Breast Cancer Cells Using Simple Colorimetric and Highly Sensitive Two-Photon Scattering Assay. <i>ACS Nano</i> , 2010, 4, 1739-1749.	14.6	236
13	Effect of surface coating on the toxicity of silver nanomaterials on human skin keratinocytes. <i>Chemical Physics Letters</i> , 2010, 487, 92-96.	2.6	223
14	Ultrasensitive and Highly Selective Detection of Alzheimer's Disease Biomarker Using Two-Photon Rayleigh Scattering Properties of Gold Nanoparticle. <i>ACS Nano</i> , 2009, 3, 2834-2840.	14.6	221
15	Multifunctional Plasmonic Shell-Magnetic Core Nanoparticles for Targeted Diagnostics, Isolation, and Photothermal Destruction of Tumor Cells. <i>ACS Nano</i> , 2012, 6, 1065-1073.	14.6	213
16	Mechanistic Study of the Synergistic Antibacterial Activity of Combined Silver Nanoparticles and Common Antibiotics. <i>Environmental Science & Technology</i> , 2016, 50, 8840-8848.	10.0	210
17	Size- and Distance-Dependent Nanoparticle Surface Energy Transfer (NSET) Method for Selective Sensing of Hepatitis C Virus RNA. <i>Chemistry - A European Journal</i> , 2009, 15, 342-351.	3.3	192
18	Gold Nanorod Based Selective Identification of Escherichia coli Bacteria Using Two-Photon Rayleigh Scattering Spectroscopy. <i>ACS Nano</i> , 2009, 3, 1906-1912.	14.6	182

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19	Non-resonance SERS effects of silver colloids with different shapes. <i>Chemical Physics Letters</i> , 2007, 446, 77-82.	2.6	180
20	Gold Nanoparticle Based FRET Assay for the Detection of DNA Cleavage. <i>Journal of Physical Chemistry B</i> , 2006, 110, 20745-20748.	2.6	164
21	Rapid Colorimetric Identification and Targeted Photothermal Lysis of <i>Salmonella</i> Bacteria by Using Bioconjugated Oval-Shaped Gold Nanoparticles. <i>Chemistry - A European Journal</i> , 2010, 16, 5600-5606.	3.3	152
22	Gold Nanoparticle-Based Simple Colorimetric and Ultrasensitive Dynamic Light Scattering Assay for the Selective Detection of Pb(II) from Paints, Plastics, and Water Samples. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 668-673.	8.0	147
23	Advances in Our Understanding of the Molecular Mechanisms of Action of Cisplatin in Cancer Therapy. <i>Journal of Experimental Pharmacology</i> , 2021, Volume 13, 303-328.	3.2	146
24	Gold Nanoparticle Based FRET for DNA Detection. <i>Plasmonics</i> , 2007, 2, 173-183.	3.4	144
25	Highly selective SERS probe for Hg(II) detection using tryptophan-protected popcorn shaped gold nanoparticles. <i>Chemical Communications</i> , 2011, 47, 10326.	4.1	140
26	Theranostic nanomedicine for cancer detection and treatment. <i>Journal of Food and Drug Analysis</i> , 2014, 22, 3-17.	1.9	138
27	Hybrid Graphene Oxide Based Ultrasensitive SERS Probe for Label-Free Biosensing. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3813-3818.	4.6	135
28	Nanoscale optical rulers beyond the FRET distance limit: fundamentals and applications. <i>Chemical Society Reviews</i> , 2014, 43, 6370-6404.	38.1	132
29	Nanoarchitecture Based SERS for Biomolecular Fingerprinting and Label-Free Disease Markers Diagnosis. <i>Accounts of Chemical Research</i> , 2016, 49, 2725-2735.	15.6	114
30	Hybrid Graphene Oxide Based Plasmonic-Magnetic Multifunctional Nanoplatform for Selective Separation and Label-Free Identification of Alzheimer's Disease Biomarkers. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 13693-13700.	8.0	113
31	Diagnostics of Single Base-Mismatch DNA Hybridization on Gold Nanoparticles by Using the Hyper-Rayleigh Scattering Technique. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 1151-1154.	13.8	110
32	Gold Nano-Popcorn Attached SWCNT Hybrid Nanomaterial for Targeted Diagnosis and Photothermal Therapy of Human Breast Cancer Cells. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 3316-3324.	8.0	110
33	Gold Nanorod-Based Sensing of Sequence Specific HIV-1 Virus DNA by Using Hyper-Rayleigh Scattering Spectroscopy. <i>Chemistry - A European Journal</i> , 2008, 14, 3896-3903.	3.3	109
34	Popcorn-Shaped Magnetic Core-Plasmonic Shell Multifunctional Nanoparticles for the Targeted Magnetic Separation and Enrichment, Label-Free SERS Imaging, and Photothermal Destruction of Multidrug-Resistant Bacteria. <i>Chemistry - A European Journal</i> , 2013, 19, 2839-2847.	3.3	101
35	Sequence-Specific HCV RNA Quantification Using the Size-Dependent Nonlinear Optical Properties of Gold Nanoparticles. <i>Small</i> , 2009, 5, 839-845.	10.0	99
36	Antimicrobial peptide-conjugated graphene oxide membrane for efficient removal and effective killing of multiple drug resistant bacteria. <i>RSC Advances</i> , 2015, 5, 18881-18887.	3.6	99

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37	Multifunctional Biocompatible Graphene Oxide Quantum Dots Decorated Magnetic Nanoplatform for Efficient Capture and Two-Photon Imaging of Rare Tumor Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 10935-10943.	8.0	99
38	Aptamer-Conjugated Graphene Oxide Membranes for Highly Efficient Capture and Accurate Identification of Multiple Types of Circulating Tumor Cells. <i>Bioconjugate Chemistry</i> , 2015, 26, 235-242.	3.6	98
39	Gold nanoparticle based surface enhanced fluorescence for detection of organophosphorus agents. <i>Chemical Physics Letters</i> , 2008, 460, 187-190.	2.6	85
40	Highly Sensitive and Selective Dynamic Light-Scattering Assay for TNT Detection Using p-ATP Attached Gold Nanoparticle. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 3455-3460.	8.0	85
41	The rapid diagnosis and effective inhibition of coronavirus using spike antibody attached gold nanoparticles. <i>Nanoscale Advances</i> , 2021, 3, 1588-1596.	4.6	82
42	Bio-Conjugated CNT-Bridged 3D Porous Graphene Oxide Membrane for Highly Efficient Disinfection of Pathogenic Bacteria and Removal of Toxic Metals from Water. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 19210-19218.	8.0	81
43	Gold-nanoparticle-based miniaturized laser-induced fluorescence probe for specific DNA hybridization detection: studies on size-dependent optical properties. <i>Nanotechnology</i> , 2006, 17, 3085-3093.	2.6	79
44	Targeted highly sensitive detection of multi-drug resistant salmonella DT104 using gold nanoparticles. <i>Chemical Communications</i> , 2011, 47, 9444.	4.1	78
45	A Label-Free Gold Nanoparticle-Based SERS Assay for Direct Cyanide Detection at the Parts-per-Trillion Level. <i>Chemistry - A European Journal</i> , 2011, 17, 8445-8451.	3.3	77
46	Development of a Long-Range Surface-Enhanced Raman Spectroscopy Ruler. <i>Journal of the American Chemical Society</i> , 2012, 134, 8662-8669.	13.7	77
47	Nanovaccines for malaria using Plasmodium falciparum antigen Pfs25 attached gold nanoparticles. <i>Vaccine</i> , 2015, 33, 5064-5071.	3.8	75
48	Theranostic Magnetic Core-Plasmonic Shell Star Shape Nanoparticle for the Isolation of Targeted Rare Tumor Cells from Whole Blood, Fluorescence Imaging, and Photothermal Destruction of Cancer. <i>Molecular Pharmaceutics</i> , 2013, 10, 857-866.	4.6	71
49	Highly efficient SERS substrate for direct detection of explosive TNT using popcorn-shaped gold nanoparticle-functionalized SWCNT hybrid. <i>Analyst</i> , The, 2012, 137, 5041.	3.5	66
50	Bioconjugated Gold Nanoparticle Based SERS Probe for Ultrasensitive Identification of Mosquito-Borne Viruses Using Raman Fingerprinting. <i>Journal of Physical Chemistry C</i> , 2015, 119, 23669-23675.	3.1	65
51	A gold nanocage-CNT hybrid for targeted imaging and photothermal destruction of cancer cells. <i>Chemical Communications</i> , 2012, 48, 6711.	4.1	64
52	Cytotoxicity of organic surface coating agents used for nanoparticles synthesis and stability. <i>Toxicology in Vitro</i> , 2015, 29, 762-768.	2.4	62
53	Multifunctional Three-Dimensional Chitosan/Gold Nanoparticle/Graphene Oxide Architecture for Separation, Label-Free SERS Identification of Pharmaceutical Contaminants, and Effective Killing of Superbugs. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 7175-7187.	6.7	60
54	Fluorescent, Magnetic Multifunctional Carbon Dots for Selective Separation, Identification, and Eradication of Drug-Resistant Superbugs. <i>ACS Omega</i> , 2017, 2, 554-562.	3.5	59

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55	Nonlinear optical properties of highly conjugated push-pull porphyrin aggregates: Role of intermolecular interaction. <i>Chemical Physics Letters</i> , 2006, 419, 578-583.	2.6	58
56	Nonlinear optical properties of triangular silver nanomaterials. <i>Chemical Physics Letters</i> , 2009, 481, 94-98.	2.6	56
57	Two-Photon Absorption and First Nonlinear Optical Properties of Ionic Octupolar Molecules: Structure-Function Relationships and Solvent Effects. <i>Journal of Physical Chemistry A</i> , 2005, 109, 6689-6696.	2.5	55
58	Bio-conjugated popcorn shaped gold nanoparticles for targeted photothermal killing of multiple drug resistant Salmonella DT104. <i>Journal of Materials Chemistry</i> , 2011, 21, 17705.	6.7	55
59	Multifunctional Nanoplatforms for Targeted Multidrug-Resistant-Bacteria Theranostic Applications. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 11348-11354.	8.0	54
60	Aptamer Conjugated Gold Nanostar-Based Distance-Dependent Nanoparticle Surface Energy Transfer Spectroscopy for Ultrasensitive Detection and Inactivation of Corona Virus. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2166-2171.	4.6	53
61	Nonlinear Optical Properties of Zwitterionic Merocyanine Aggregates: Role of Intermolecular Interaction and Solvent Polarity. <i>Journal of Physical Chemistry A</i> , 2005, 109, 9095-9103.	2.5	52
62	Very Large Infrared Two-Photon Absorption Cross Section of Asymmetric Zinc Porphyrin Aggregates: Role of Intermolecular Interaction and Donor-Acceptor Strengths. <i>Journal of Physical Chemistry A</i> , 2006, 110, 12342-12347.	2.5	52
63	A gold-nanoparticle-based fluorescence resonance energy transfer probe for multiplexed hybridization detection: accurate identification of bio-agents DNA. <i>Nanotechnology</i> , 2007, 18, 375504.	2.6	48
64	Two-Photon Fluorescent Molybdenum Disulfide Dots for Targeted Prostate Cancer Imaging in the Biological II Window. <i>ACS Omega</i> , 2017, 2, 1826-1835.	3.5	47
65	Sensitive and selective detection of trivalent chromium using hyper Rayleigh scattering with 5,5-dithio-bis-(2-nitrobenzoic acid)-modified gold nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2013, 178, 514-519.	7.8	46
66	Extremely High Two-Photon Absorbing Graphene Oxide for Imaging of Tumor Cells in the Second Biological Window. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2150-2154.	4.6	45
67	First-order hyperpolarizabilities of octupolar aromatic molecules: symmetrically substituted triazines. <i>Chemical Physics Letters</i> , 1995, 244, 153-156.	2.6	43
68	2D and Heterostructure Nanomaterial Based Strategies for Combating Drug-Resistant Bacteria. <i>ACS Omega</i> , 2020, 5, 3116-3130.	3.5	43
69	First hyperpolarizabilities of ionic octupolar molecules: structure-function relationships and solvent effects. <i>Chemical Physics Letters</i> , 2004, 399, 162-166.	2.6	41
70	Enhancing Targeted Tumor Treatment by Near IR Light-Activatable Photodynamic-Photothermal Synergistic Therapy. <i>Molecular Pharmaceutics</i> , 2014, 11, 1109-1116.	4.6	41
71	Several Orders-of-Magnitude Enhancement of Multiphoton Absorption Property for CsPbX ₃ Perovskite Quantum Dots by Manipulating Halide Stoichiometry. <i>Journal of Physical Chemistry C</i> , 2019, 123, 5150-5156.	3.1	41
72	First-Order Hyperpolarizabilities of Sulfophthalein Dyes. <i>The Journal of Physical Chemistry</i> , 1995, 99, 14414-14417.	2.9	40

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73	Hybrid Theranostic Platform for Second Near-IR Window Light Triggered Selective Two-Photon Imaging and Photothermal Killing of Targeted Melanoma Cells. ACS Applied Materials & Interfaces, 2015, 7, 20649-20656.	8.0	40
74	Water Triggered Synthesis of Highly Stable and Biocompatible 1D Nanowire, 2D Nanoplatelet, and 3D Nanocube CsPbBr ₃ Perovskites for Multicolor Two-Photon Cell Imaging. JACS Au, 2021, 1, 53-65.	7.9	40
75	Remarkable solvent effects on first hyperpolarizabilities of zwitterionic merocyanine dyes: ab initio TD-DFT/PCM approach. Chemical Physics Letters, 2004, 395, 269-273.	2.6	39
76	Synthesis of highly fluorescent water-soluble silver nanoparticles for selective detection of Pb(II) at the parts per quadrillion (PPQ) level. Chemical Communications, 2012, 48, 9047.	4.1	39
77	The effects of π -conjugation on first hyperpolarizabilities of charged NLO chromophores. Chemical Physics Letters, 2004, 394, 354-360.	2.6	38
78	Fluorescence Resonance Energy Transfer Based Highly Efficient Theranostic Nanoplatform for Two-Photon Bioimaging and Two-Photon Excited Photodynamic Therapy of Multiple Drug Resistance Bacteria. ACS Applied Bio Materials, 2018, 1, 298-309.	4.6	38
79	Water-Soluble and Bright Luminescent Cesium-Lead-Bromide Perovskite Quantum Dot-Polymer Composites for Tumor-Derived Exosome Imaging. ACS Applied Bio Materials, 2019, 2, 5872-5879.	4.6	38
80	Gold Nanoparticle Based NSET For Monitoring Mg ²⁺ Dependent RNA Folding. Journal of Physical Chemistry B, 2008, 112, 11198-11201.	2.6	35
81	Highly Efficient and Excitation Tunable Two-Photon Luminescence Platform For Targeted Multi-Color MDRB Imaging Using Graphene Oxide. Scientific Reports, 2014, 4, 6090.	3.3	35
82	Three-dimensional (3D) plasmonic hot spots for label-free sensing and effective photothermal killing of multiple drug resistant superbugs. Nanoscale, 2016, 8, 18301-18308.	5.6	35
83	Development of Multifunctional Fluorescent-Magnetic Nanoprobes for Selective Capturing and Multicolor Imaging of Heterogeneous Circulating Tumor Cells. ACS Applied Materials & Interfaces, 2016, 8, 15076-15085.	8.0	35
84	Accurate Identification and Selective Removal of Rotavirus Using a Plasmonic-Magnetic 3D Graphene Oxide Architecture. Journal of Physical Chemistry Letters, 2014, 5, 3216-3221.	4.6	33
85	Understanding the high energetic behavior of nano-energetic porous silicon. Chemical Physics Letters, 2008, 464, 198-201.	2.6	31
86	Real time monitoring of the shape evolution of branched gold nanostructure. Chemical Physics Letters, 2010, 487, 88-91.	2.6	31
87	Chemically attached gold nanoparticle-carbon nanotube hybrids for highly sensitive SERS substrate. Chemical Physics Letters, 2011, 512, 237-242.	2.6	30
88	Multifunctional Biochar for Highly Efficient Capture, Identification, and Removal of Toxic Metals and Superbugs from Water Samples. ACS Omega, 2017, 2, 7730-7738.	3.5	30
89	Ka Values of Weak Organic Acids in Protic Solvents Obtained from Their First Hyperpolarizabilities in Solution. The Journal of Physical Chemistry, 1995, 99, 17891-17895.	2.9	29
90	Antimicrobial Peptide-Conjugated MoS ₂ -Based Nanoplatform for Multimodal Synergistic Inactivation of Superbugs. ACS Applied Bio Materials, 2019, 2, 769-776.	4.6	29

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91	Laser-induced fluorescence quenching of tagged oligonucleotide probes by gold nanoparticles. <i>Chemical Physics Letters</i> , 2005, 414, 259-264.	2.6	28
92	Graphene Oxide-Gold Nanocage Hybrid Platform for Trace Level Identification of Nitro Explosives Using a Raman Fingerprint. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7070-7075.	3.1	28
93	Mixed-Dimensional Heterostructure Material-Based SERS for Trace Level Identification of Breast Cancer-Derived Exosomes. <i>ACS Omega</i> , 2020, 5, 16602-16611.	3.5	28
94	Aptamer-conjugated theranostic hybrid graphene oxide with highly selective biosensing and combined therapy capability. <i>Faraday Discussions</i> , 2014, 175, 257-271.	3.2	27
95	Gold Nanocage Assemblies for Selective Second Harmonic Generation Imaging of Cancer Cell. <i>Chemistry - A European Journal</i> , 2014, 20, 1017-1022.	3.3	27
96	Multifunctional hybrid graphene oxide for circulating tumor cell isolation and analysis. <i>Advanced Drug Delivery Reviews</i> , 2018, 125, 21-35.	13.7	27
97	Hierarchical comb brush architectures via sequential light-mediated controlled radical polymerizations. <i>Journal of Polymer Science Part A</i> , 2016, 54, 2276-2284.	2.3	26
98	A comparative study of first hyperpolarizabilities of the acidic and basic forms of weak organic acids in water. <i>Journal of Chemical Physics</i> , 1996, 105, 9633-9639.	3.0	25
99	Nanogold-Based Sensing of Environmental Toxins: Excitement and Challenges. <i>Journal of Environmental Science and Health, Part C: Environmental Carcinogenesis and Ecotoxicology Reviews</i> , 2011, 29, 52-89.	2.9	25
100	Size dependent nonlinear optical properties of silver quantum clusters. <i>Chemical Physics Letters</i> , 2011, 512, 92-95.	2.6	22
101	Long-Range Nanoparticle Surface-Energy-Transfer Ruler for Monitoring Photothermal Therapy Response. <i>Small</i> , 2011, 7, 2517-2525.	10.0	22
102	Miniaturized Sensor for Microbial Pathogens DNA and Chemical Toxins. <i>IEEE Sensors Journal</i> , 2008, 8, 693-700.	4.7	21
103	A surface enhanced Raman scattering probe for highly selective and ultra sensitive detection of iodide in water and salt samples. <i>Analyst</i> , 2013, 138, 1195.	3.5	21
104	Probing molecular self-assembly by hyper-Rayleigh scattering in solution. <i>Chemical Physics Letters</i> , 1997, 281, 243-246.	2.6	20
105	Inhibition of cytomegalovirus infection and photothermolysis of infected cells using bioconjugated gold nanoparticles. <i>Scientific Reports</i> , 2014, 4, 5550.	3.3	20
106	Influence of the Central Metal Ion on Nonlinear Optical and Two-Photon Absorption Properties of Push-Pull Transition Metal Porphyrins. <i>Journal of Physical Chemistry A</i> , 2008, 112, 2870-2879.	2.5	19
107	Multimodal Nonlinear Optical Imaging of Live Cells Using Plasmon-Coupled DNA-Mediated Gold Nanoprisms Assembly. <i>Journal of Physical Chemistry C</i> , 2016, 120, 4546-4555.	3.1	19
108	A WS ₂ -gold nanoparticle heterostructure-based novel SERS platform for the rapid identification of antibiotic-resistant pathogens. <i>Nanoscale Advances</i> , 2020, 2, 2025-2033.	4.6	19

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109	Probing real time gold nanostar formation process using two-photon scattering spectroscopy. <i>Chemical Physics Letters</i> , 2011, 504, 46-51.	2.6	18
110	A bio-conjugated chitosan wrapped CNT based 3D nanoporous architecture for separation and inactivation of <i>Rotavirus</i> and <i>Shigella</i> waterborne pathogens. <i>Journal of Materials Chemistry B</i> , 2017, 5, 9522-9531.	5.8	18
111	Composites Composed of Polydopamine Nanoparticles, Graphene Oxide, and μ -Poly-L-lysine for Removal of Waterborne Contaminants and Eradication of Superbugs. <i>ACS Applied Nano Materials</i> , 2019, 2, 3339-3347.	5.0	18
112	FAPbI ₃ Perovskite Films Prepared by Solvent Self-Volatilization for Photovoltaic Applications. <i>ACS Applied Energy Materials</i> , 2022, 5, 1487-1495.	5.1	18
113	Designing distance dependent SERS assay for monitoring photothermal antibacterial activity response. <i>Chemical Communications</i> , 2012, 48, 11091.	4.1	17
114	Long-range two-photon scattering spectroscopy ruler for screening prostate cancer cells. <i>Chemical Science</i> , 2015, 6, 2411-2418.	7.4	17
115	Theranostic Graphene Oxide for Prostate Cancer Detection and Treatment. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 1252-1259.	2.3	16
116	Effect of Conjugation Path Length on Quadratic Nonlinear Optical Properties of Monomer and Aggregates of Zwitterionic Merocyanine Dyes. <i>Journal of Physical Chemistry A</i> , 2006, 110, 8963-8969.	2.5	15
117	Development of a SERS Probe for Selective Detection of Healthy Prostate and Malignant Prostate Cancer Cells Using Zn II. <i>Chemistry - an Asian Journal</i> , 2017, 12, 665-672.	3.3	15
118	Influence of poling methods on the orientational dynamics of 2-methyl-4-nitro-aniline in poly(methyl Tj ETQq0 0 0 rgBT /Overlock 10 Tf	5.4	14
119	Nonlinear optical properties of ionic NLO chromophores: An attempt to bridge the gap between computation and experiment. <i>International Journal of Quantum Chemistry</i> , 2005, 105, 348-358.	2.0	13
120	Measurement of Partition Coefficients of Substituted Benzoic Acids between Two Immiscible Solvents by Hyper-Rayleigh Scattering. <i>The Journal of Physical Chemistry</i> , 1996, 100, 15631-15633.	2.9	11
121	Ultrasensitive and Highly Selective Detection of TNT From Environmental Sample Using Two-Photon Scattering Properties of Amino thiophenol-Modified Gold Nanoparticle. <i>IEEE Nanotechnology Magazine</i> , 2011, 10, 1083-1088.	2.0	11
122	Multifunctional hybrid graphene oxide for label-free detection of malignant melanoma from infected blood. <i>Journal of Materials Chemistry B</i> , 2014, 2, 1934-1937.	5.8	11
123	Giant Chemical and Excellent Synergistic Raman Enhancement from a 3D MoS ₂ -xO ₂ -Gold Nanoparticle Hybrid. <i>ACS Omega</i> , 2019, 4, 11112-11118.	3.5	11
124	Bioconjugated Nanomaterial for Targeted Diagnosis of SARS-CoV-2. <i>Accounts of Materials Research</i> , 2022, 3, 134-148.	11.7	10
125	Blocking SARS-CoV-2 Delta Variant (B.1.617.2) Spike Protein Receptor-Binding Domain Binding with the ACE2 Receptor of the Host Cell and Inhibiting Virus Infections Using Human Host Defense Peptide-Conjugated Graphene Quantum Dots. <i>ACS Omega</i> , 2022, 7, 8150-8157.	3.5	10
126	Second-order polarizability of p-substituted cinnamic acids. <i>Chemical Physics Letters</i> , 1996, 248, 27-30.	2.6	9

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127	Self-assembly structure of the levulinic acid-melamine lattice. <i>International Journal of Quantum Chemistry</i> , 2004, 100, 758-763.	2.0	9
128	Odd-even oscillations of SHG efficiencies in twin NLO chromophores. <i>Polymer Bulletin</i> , 1997, 39, 481-487.	3.3	7
129	Near infrared photo-induced DNA damage in the presence of copper-dppz complex: Evidence for the involvement of singlet oxygen. <i>Chemical Physics Letters</i> , 2007, 434, 127-132.	2.6	7
130	Perovskite films prepared by solvent volatilization via DMSO-based intermediate phase for photovoltaics. <i>Solar Energy</i> , 2021, 218, 383-391.	6.1	7
131	Designing highly crystalline multifunctional multicolor-luminescence nanosystem for tracking breast cancer heterogeneity. <i>Nanoscale Advances</i> , 2019, 1, 1021-1034.	4.6	6
132	Development of Human Host Defense Antimicrobial Peptide-Conjugated Biochar Nanocomposites for Combating Broad-Spectrum Superbugs. <i>ACS Applied Bio Materials</i> , 2020, 3, 7696-7705.	4.6	6
133	Second harmonic generation in poled molecularly doped polymer films. <i>Chemical Physics Letters</i> , 1994, 229, 415-420.	2.6	5
134	Length dependent NLO properties of 2D hollow gold nanoprisms formed by guided assembly. <i>Chemical Communications</i> , 2012, 48, 6034.	4.1	5
135	Gold Nanotechnology for Targeted Detection and Killing of Multiple Drug Resistant Bacteria from Food Samples. <i>ACS Symposium Series</i> , 2013, , 1-19.	0.5	5
136	Theranostic Nanoplatfoms for MRSA Detection and Destruction from Whole Blood. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 357-364.	2.3	5
137	Designing a multicolor long range nanoscopic ruler for the imaging of heterogeneous tumor cells. <i>Nanoscale</i> , 2016, 8, 13769-13780.	5.6	5
138	High broadband photoconductivity of few-layered MoS ₂ field-effect transistors measured using multi-terminal methods: effects of contact resistance. <i>Nanoscale</i> , 2020, 12, 22904-22916.	5.6	5
139	Luminescence properties of CsPbBr ₃ :Mn nanocrystals. <i>Journal of Nanoparticle Research</i> , 2021, 23, 1.	1.9	5
140	Bio-Conjugated Magnetic-Fluorescence Nanoarchitectures for the Capture and Identification of Lung-Tumor-Derived Programmed Cell Death Lighand 1-Positive Exosomes. <i>ACS Omega</i> , 2022, 7, 16035-16042.	3.5	5
141	Recent progress on the development of anisotropic gold nanoparticles: Design strategies and growth mechanism. <i>Journal of Environmental Science and Health, Part C: Environmental Carcinogenesis and Ecotoxicology Reviews</i> , 2017, 35, 47-66.	2.9	4
142	First hyperpolarizabilities of some push-pull olefins measured by the hyper-Rayleigh scattering technique. <i>Synthetic Metals</i> , 1996, 82, 47-51.	3.9	3
143	Dissociation constants of some substituted cinnamic acids in protic solvents: measurements by hyper-Rayleigh scattering and potentiometric techniques. <i>Chemical Physics</i> , 1996, 211, 499-505.	1.9	3
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