

Paras N Prasad

List of Publications by Year in descending order

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575
papers

49,956
citations

1370

108
h-index

2277

200
g-index

581
all docs

581
docs citations

581
times ranked

40977
citing authors

#	ARTICLE	IF	CITATIONS
1	Upconversion Nanoparticles: Design, Nanochemistry, and Applications in Theranostics. <i>Chemical Reviews</i> , 2014, 114, 5161-5214.	23.0	2,163
2	Multiphoton Absorbing Materials: Molecular Designs, Characterizations, and Applications. <i>Chemical Reviews</i> , 2008, 108, 1245-1330.	23.0	1,906
3	Nanochemistry and Nanomedicine for Nanoparticle-based Diagnostics and Therapy. <i>Chemical Reviews</i> , 2016, 116, 2826-2885.	23.0	1,201
4	Ceramic-Based Nanoparticles Entrapping Water-Insoluble Photosensitizing Anticancer Drugs: A Novel Drug Carrier System for Photodynamic Therapy. <i>Journal of the American Chemical Society</i> , 2003, 125, 7860-7865.	6.6	885
5	High Contrast in Vitro and in Vivo Photoluminescence Bioimaging Using Near Infrared to Near Infrared Up-Conversion in Tm^{3+} and Yb^{3+} Doped Fluoride Nanophosphors. <i>Nano Letters</i> , 2008, 8, 3834-3838.	4.5	874
6	Highly Active Two-Photon Dyes: Design, Synthesis, and Characterization toward Application. <i>Chemistry of Materials</i> , 1998, 10, 1863-1874.	3.2	714
7	Organically Modified Silica Nanoparticles Co-encapsulating Photosensitizing Drug and Aggregation-Enhanced Two-Photon Absorbing Fluorescent Dye Aggregates for Two-Photon Photodynamic Therapy. <i>Journal of the American Chemical Society</i> , 2007, 129, 2669-2675.	6.6	658
8	$(\pm-NaYbF_4:Tm^{3+})/CaF_2$ Core/Shell Nanoparticles with Efficient Near-Infrared to Near-Infrared Upconversion for High-Contrast Deep Tissue Bioimaging. <i>ACS Nano</i> , 2012, 6, 8280-8287.	7.3	647
9	Biocompatible Luminescent Silicon Quantum Dots for Imaging of Cancer Cells. <i>ACS Nano</i> , 2008, 2, 873-878.	7.3	630
10	Combined Optical and MR Bioimaging Using Rare Earth Ion Doped $NaYF_4$ Nanocrystals. <i>Advanced Functional Materials</i> , 2009, 19, 853-859.	7.8	609
11	Two-dimensional MXenes: From morphological to optical, electric, and magnetic properties and applications. <i>Physics Reports</i> , 2020, 848, 1-58.	10.3	594
12	A General Approach to Binary and Ternary Hybrid Nanocrystals. <i>Nano Letters</i> , 2006, 6, 875-881.	4.5	593
13	Organically modified silica nanoparticles: A nonviral vector for in vivo gene delivery and expression in the brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 11539-11544.	3.3	585
14	<i>In Vivo</i> Biodistribution and Clearance Studies Using Multimodal Organically Modified Silica Nanoparticles. <i>ACS Nano</i> , 2010, 4, 699-708.	7.3	500
15	Light upconverting core-shell nanostructures: nanophotonic control for emerging applications. <i>Chemical Society Reviews</i> , 2015, 44, 1680-1713.	18.7	483
16	New Generation Cadmium-Free Quantum Dots for Biophotonics and Nanomedicine. <i>Chemical Reviews</i> , 2016, 116, 12234-12327.	23.0	482
17	Two-photon absorption and optical-limiting properties of novel organic compounds. <i>Optics Letters</i> , 1995, 20, 435.	1.7	458
18	Folate-Receptor-Mediated Delivery of InP Quantum Dots for Bioimaging Using Confocal and Two-Photon Microscopy. <i>Journal of the American Chemical Society</i> , 2005, 127, 11364-11371.	6.6	448

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19	Optical tracking of organically modified silica nanoparticles as DNA carriers: A nonviral, nanomedicine approach for gene delivery. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 279-284.	3.3	436
20	Cooperative Enhancement of Two-Photon Absorption in Multi-branched Structures. Journal of Physical Chemistry B, 1999, 103, 10741-10745.	1.2	428
21	Nanotoxicity assessment of quantum dots: from cellular to primate studies. Chemical Society Reviews, 2013, 42, 1236-1250.	18.7	406
22	Core/Shell NaGdF ₄ :Nd ³⁺ /NaGdF ₄ Nanocrystals with Efficient Near-Infrared to Near-Infrared Downconversion Photoluminescence for Bioimaging Applications. ACS Nano, 2012, 6, 2969-2977.	7.3	403
23	Aqueous Ferrofluid of Magnetite Nanoparticles: Fluorescence Labeling and Magnetophoretic Control. Journal of Physical Chemistry B, 2005, 109, 3879-3885.	1.2	387
24	<i>In Vivo</i> Targeted Cancer Imaging, Sentinel Lymph Node Mapping and Multi-Channel Imaging with Biocompatible Silicon Nanocrystals. ACS Nano, 2011, 5, 413-423.	7.3	378
25	Upconversion in Er ³⁺ :ZrO ₂ Nanocrystals. Journal of Physical Chemistry B, 2002, 106, 1909-1912.	1.2	375
26	Observation of stimulated emission by direct three-photon excitation. Nature, 2002, 415, 767-770.	13.7	363
27	Intense Visible and Near-Infrared Upconversion Photoluminescence in Colloidal LiYF ₄ :Er ³⁺ Nanocrystals under Excitation at 1490 nm. ACS Nano, 2011, 5, 4981-4986.	7.3	348
28	Energy-Cascaded Upconversion in an Organic Dye-Sensitized Core/Shell Fluoride Nanocrystal. Nano Letters, 2015, 15, 7400-7407.	4.5	341
29	Optical limiting effect in a two-photon absorption dye doped solid matrix. Applied Physics Letters, 1995, 67, 2433-2435.	1.5	340
30	Nanochemistry: Synthesis and Characterization of Multifunctional Nanoclinics for Biological Applications. Chemistry of Materials, 2002, 14, 3715-3721.	3.2	322
31	Imaging Pancreatic Cancer Using Bioconjugated InP Quantum Dots. ACS Nano, 2009, 3, 502-510.	7.3	322
32	Photoluminescent Carbon Dots as Biocompatible Nanoprobes for Targeting Cancer Cells <i>In Vitro</i> . Journal of Physical Chemistry C, 2010, 114, 12062-12068.	1.5	318
33	New Class of Two-Photon-Absorbing Chromophores Based on Dithienothiophene. Chemistry of Materials, 2000, 12, 284-286.	3.2	314
34	Tunable Narrow Band Emissions from Dye-Sensitized Core/Shell/Shell Nanocrystals in the Second Near-Infrared Biological Window. Journal of the American Chemical Society, 2016, 138, 16192-16195.	6.6	314
35	A systematic study of polarizability and microscopic third-order optical nonlinearity in thiophene oligomers. Journal of Chemical Physics, 1988, 89, 5535-5541.	1.2	311
36	Organically Modified Silica Nanoparticles with Covalently Incorporated Photosensitizer for Photodynamic Therapy of Cancer. Nano Letters, 2007, 7, 2835-2842.	4.5	311

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37	Photonics and optoelectronics using nano-structured hybrid perovskite media and their optical cavities. <i>Physics Reports</i> , 2019, 795, 1-51.	10.3	303
38	Covalently Dye-Linked, Surface-Controlled, and Bioconjugated Organically Modified Silica Nanoparticles as Targeted Probes for Optical Imaging. <i>ACS Nano</i> , 2008, 2, 449-456.	7.3	274
39	Diphenylaminofluorene-Based Two-Photon-Absorbing Chromophores with Various π -Electron Acceptors. <i>Chemistry of Materials</i> , 2001, 13, 1896-1904.	3.2	271
40	Nanochemistry and nanomaterials for photovoltaics. <i>Chemical Society Reviews</i> , 2013, 42, 8304.	18.7	269
41	Glucose Biosensor Based on a Sol-Gel-Derived Platform. <i>Analytical Chemistry</i> , 1994, 66, 3139-3144.	3.2	265
42	Fluorescence Upconversion Properties of Er ³⁺ -Doped TiO ₂ and BaTiO ₃ Nanocrystallites. <i>Chemistry of Materials</i> , 2003, 15, 3650-3655.	3.2	257
43	Effect of crystal nature on upconversion luminescence in Er ³⁺ :ZrO ₂ nanocrystals. <i>Applied Physics Letters</i> , 2003, 83, 284-286.	1.5	244
44	Sensitivity Improved Surface Plasmon Resonance Biosensor for Cancer Biomarker Detection Based on Plasmonic Enhancement. <i>ACS Nano</i> , 2011, 5, 4858-4864.	7.3	242
45	Biocompatible and biodegradable inorganic nanostructures for nanomedicine: Silicon and black phosphorus. <i>Nano Today</i> , 2019, 25, 135-155.	6.2	240
46	Singlet Oxygen Generation via Two-Photon Excited FRET. <i>Journal of the American Chemical Society</i> , 2004, 126, 5380-5381.	6.6	228
47	Biocompatible Magnetofluorescent Probes: Luminescent Silicon Quantum Dots Coupled with Superparamagnetic Iron(III) Oxide. <i>ACS Nano</i> , 2010, 4, 5131-5138.	7.3	228
48	Nanophotonics and Nanochemistry: Controlling the Excitation Dynamics for Frequency Up- and Down-Conversion in Lanthanide-Doped Nanoparticles. <i>Accounts of Chemical Research</i> , 2013, 46, 1474-1486.	7.6	225
49	Toward Highly Active Two-Photon Absorbing Liquids. Synthesis and Characterization of 1,3,5-Triazine-Based Octupolar Molecules. <i>Chemistry of Materials</i> , 2004, 16, 185-194.	3.2	215
50	Sol-Gel-Processed SiO ₂ /TiO ₂ /Poly(vinylpyrrolidone) Composite Materials for Optical Waveguides. <i>Chemistry of Materials</i> , 1996, 8, 235-241.	3.2	214
51	Synthesis of Monodisperse Au, Ag, and Au@Ag Alloy Nanoparticles with Tunable Size and Surface Plasmon Resonance Frequency. <i>Chemistry of Materials</i> , 2011, 23, 4098-4101.	3.2	207
52	Gold Nanorods Coated with Multilayer Polyelectrolyte as Contrast Agents for Multimodal Imaging. <i>Journal of Physical Chemistry C</i> , 2007, 111, 12552-12557.	1.5	206
53	Nanotechnology approach for drug addiction therapy: Gene silencing using delivery of gold nanorod-siRNA nanoplex in dopaminergic neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 5546-5550.	3.3	199
54	Affinity of antiferrocyanine antibodies encapsulated within a transparent sol-gel glass. <i>Analytical Chemistry</i> , 1993, 65, 2671-2675.	3.2	194

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55	Conformationally Restricted Dipyromethene Boron Difluoride (BODIPY) Dyes: Highly Fluorescent, Multicolored Probes for Cellular Imaging. <i>Chemistry - A European Journal</i> , 2008, 14, 5812-5819.	1.7	191
56	Hexamodal Imaging with Porphyrin-Phospholipid-Coated Upconversion Nanoparticles. <i>Advanced Materials</i> , 2015, 27, 1785-1790.	11.1	189
57	Quantum Rod Bioconjugates as Targeted Probes for Confocal and Two-Photon Fluorescence Imaging of Cancer Cells. <i>Nano Letters</i> , 2007, 7, 761-765.	4.5	188
58	Photosensitization of Singlet Oxygen via Two-Photon-Excited Fluorescence Resonance Energy Transfer in a Water-Soluble Dendrimer. <i>Chemistry of Materials</i> , 2005, 17, 2267-2275.	3.2	184
59	Multifunctional nanoparticles as biocompatible targeted probes for human cancer diagnosis and therapy. <i>Journal of Materials Chemistry</i> , 2009, 19, 4655.	6.7	183
60	Assessing Clinical Prospects of Silicon Quantum Dots: Studies in Mice and Monkeys. <i>ACS Nano</i> , 2013, 7, 7303-7310.	7.3	183
61	Novel Two-Photon Absorbing Dendritic Structures. <i>Chemistry of Materials</i> , 2000, 12, 2838-2841.	3.2	182
62	Upconversion: Tunable Near Infrared to Ultraviolet Upconversion Luminescence Enhancement in (NaYF ₄ :Yb,Tm)/CaF ₂ Core/Shell Nanoparticles for In situ Real-time Recorded Biocompatible Photoactivation (<i>Small</i> 19/2013). <i>Small</i> , 2013, 9, 3212-3212.	5.2	182
63	Two-photon pumped cavity lasing in novel dye doped bulk matrix rods. <i>Applied Physics Letters</i> , 1995, 67, 3703-3705.	1.5	181
64	Nonlinear optical properties of p-nitroaniline: An ab initio time-dependent coupled perturbed Hartree-Fock study. <i>Journal of Chemical Physics</i> , 1991, 94, 1171-1181.	1.2	179
65	High-density three-dimensional optical data storage in a stacked compact disk format with two-photon writing and single photon readout. <i>Applied Physics Letters</i> , 1999, 74, 1338-1340.	1.5	176
66	Au-Cu ₂ Se Heterodimer Nanoparticles with Broad Localized Surface Plasmon Resonance as Contrast Agents for Deep Tissue Imaging. <i>Nano Letters</i> , 2013, 13, 4333-4339.	4.5	176
67	Newly Synthesized Dyes and Their Polymer/Glass Composites for One- and Two-Photon Pumped Solid-State Cavity Lasing. <i>Chemistry of Materials</i> , 1995, 7, 1979-1983.	3.2	175
68	Aqueous-Phase Synthesis of Highly Luminescent CdTe/ZnTe Core/Shell Quantum Dots Optimized for Targeted Bioimaging. <i>Small</i> , 2009, 5, 1302-1310.	5.2	174
69	Monodisperse NaYbF ₄ :Tm ³⁺ /NaGdF ₄ core/shell nanocrystals with near-infrared to near-infrared upconversion photoluminescence and magnetic resonance properties. <i>Nanoscale</i> , 2011, 3, 2003.	2.8	170
70	Zinc Oxide Nanocrystals for Nonresonant Nonlinear Optical Microscopy in Biology and Medicine. <i>Journal of Physical Chemistry C</i> , 2008, 112, 10721-10724.	1.5	167
71	Observation of the Photorefractive Effect in a Hybrid Organic-Inorganic Nanocomposite. <i>Journal of the American Chemical Society</i> , 1999, 121, 5287-5295.	6.6	157
72	Multi-photon excitation properties of CdSe quantum dots solutions and optical limiting behavior in infrared range. <i>Optics Express</i> , 2007, 15, 12818.	1.7	156

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73	On-Demand Hydrogen Generation using Nanosilicon: Splitting Water without Light, Heat, or Electricity. <i>Nano Letters</i> , 2013, 13, 451-456.	4.5	154
74	Metallic Nanostructures as Localized Plasmon Resonance Enhanced Scattering Probes for Multiplex Dark-Field Targeted Imaging of Cancer Cells. <i>Journal of Physical Chemistry C</i> , 2009, 113, 2676-2684.	1.5	152
75	Alleviating Luminescence Concentration Quenching in Upconversion Nanoparticles through Organic Dye Sensitization. <i>Journal of the American Chemical Society</i> , 2016, 138, 15130-15133.	6.6	149
76	Efficient Heterojunction Photovoltaic Cell Utilizing Nanocomposites of Lead Sulfide Nanocrystals and a Low-Bandgap Polymer. <i>Advanced Materials</i> , 2011, 23, 3984-3988.	11.1	148
77	Two-photon absorption based optical limiting and stabilization in organic molecule-doped solid materials. <i>Optics Communications</i> , 1995, 117, 133-136.	1.0	147
78	Efficient, two-photon pumped green upconverted cavity lasing in a new dye. <i>Optics Communications</i> , 1996, 124, 33-37.	1.0	145
79	Shape Control of CdS Nanocrystals in One-Pot Synthesis. <i>Journal of Physical Chemistry C</i> , 2007, 111, 2447-2458.	1.5	145
80	Black phosphorus-based photothermal therapy with aCD47-mediated immune checkpoint blockade for enhanced cancer immunotherapy. <i>Light: Science and Applications</i> , 2020, 9, 161.	7.7	145
81	Color-coded multilayer photopatterned microstructures using lanthanide (III) ion co-doped NaYF ₄ nanoparticles with upconversion luminescence for possible applications in security. <i>Nanotechnology</i> , 2009, 20, 185301.	1.3	144
82	Is there a role for organic materials chemistry in nonlinear optics and photonics?. <i>Chemistry of Materials</i> , 1990, 2, 660-669.	3.2	142
83	Studies of two-photon pumped frequency-upconverted lasing properties of a new dye material. <i>Journal of Applied Physics</i> , 1997, 81, 2529-2537.	1.1	142
84	Fluorogenic, Two-Photon-Triggered Photoclick Chemistry in Live Mammalian Cells. <i>Journal of the American Chemical Society</i> , 2013, 135, 16766-16769.	6.6	142
85	Biomolecular Recognition Principles for Bionanocombinatorics: An Integrated Approach To Elucidate Enthalpic and Entropic Factors. <i>ACS Nano</i> , 2013, 7, 9632-9646.	7.3	142
86	Biocompatible Near-Infrared Quantum Dots as Ultrasensitive Probes for Long-Term in vivo Imaging Applications. <i>Small</i> , 2009, 5, 1997-2004.	5.2	137
87	Three-photon-absorption-induced fluorescence and optical limiting effects in an organic compound. <i>Optics Letters</i> , 1995, 20, 1524.	1.7	134
88	Conductive and optically non-linear polymeric langmuir-blodgett films of poly(3-dodecylthiophene). <i>Synthetic Metals</i> , 1988, 26, 369-381.	2.1	131
89	Monodispersed InP Quantum Dots Prepared by Colloidal Chemistry in a Noncoordinating Solvent. <i>Chemistry of Materials</i> , 2005, 17, 3754-3762.	3.2	130
90	Dynamics of third-order nonlinear optical processes in Langmuir-Blodgett and evaporated films of phthalocyanines. <i>Journal of Chemical Physics</i> , 1990, 92, 2019-2024.	1.2	128

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91	Twisted π -System Chromophores for All-Optical Switching. Journal of the American Chemical Society, 2011, 133, 6675-6680.	6.6	128
92	Size-Tunable and Monodisperse Tm^{3+}/Gd^{3+} -Doped Hexagonal $NaYbF_4$ Nanoparticles with Engineered Efficient Near Infrared-to-Near Infrared Upconversion for In Vivo Imaging. ACS Applied Materials & Interfaces, 2014, 6, 13884-13893.	4.0	128
93	Ultrafast Dynamics in Multibranched Structures with Enhanced Two-Photon Absorption. Journal of the American Chemical Society, 2005, 127, 10128-10129.	6.6	123
94	Chiral Poly(fluorene-alt-benzothiadiazole) (PFBT) and Nanocomposites with Gold Nanoparticles: Plasmonically and Structurally Enhanced Chirality. Journal of the American Chemical Society, 2010, 132, 17346-17348.	6.6	123
95	Polyelectrolyte Stabilized Nanowires from Fe_3O_4 Nanoparticles via Magnetic Field Induced Self-Assembly. Chemistry of Materials, 2006, 18, 591-593.	3.2	122
96	Optically and Magnetically Doped Organically Modified Silica Nanoparticles as Efficient Magnetically Guided Biomarkers for Two-Photon Imaging of Live Cancer Cells. Journal of Physical Chemistry C, 2008, 112, 7972-7977.	1.5	120
97	Poly(lactide- <i>g</i> -doxorubicin) Nanoparticles with Precisely Controlled Drug Loading for pH-Triggered Drug Delivery. Biomacromolecules, 2014, 15, 524-532.	2.6	120
98	Third-order nonlinearity and two-photon-induced molecular dynamics: Femtosecond time-resolved transient absorption, Kerr gate, and degenerate four-wave mixing studies in poly(π -phenylene) Tj ETQq0 0 0 rg12/Overl... 10 Tf 50	1.2	119
99	Fluorescence Resonance Energy Transfer in a Novel Two-Photon Absorbing System. Journal of the American Chemical Society, 2003, 125, 1448-1449.	6.6	118
100	Anti-HIV-1 nanotherapeutics: promises and challenges for the future. International Journal of Nanomedicine, 2012, 7, 5301.	3.3	118
101	Comparative Study of Materials-Binding Peptide Interactions with Gold and Silver Surfaces and Nanostructures: A Thermodynamic Basis for Biological Selectivity of Inorganic Materials. Chemistry of Materials, 2014, 26, 4960-4969.	3.2	118
102	Methamphetamine alters blood brain barrier permeability via the modulation of tight junction expression: Implication for HIV-1 neuropathogenesis in the context of drug abuse. Brain Research, 2008, 1203, 133-148.	1.1	117
103	Observation of photorefractivity in a fullerene-doped polymer composite. Physical Review B, 1992, 46, 9900-9902.	1.1	116
104	Third order nonlinear optical interactions in thin films of poly(π -phenylenebenzobisthiazole) polymer investigated by picosecond and subpicosecond degenerate four wave mixing. Applied Physics Letters, 1986, 48, 1187-1189.	1.5	115
105	Light-Harvesting Chromophores with Metalated Porphyrin Cores for Tuned Photosensitization of Singlet Oxygen via Two-Photon Excited FRET. Chemistry of Materials, 2006, 18, 3682-3692.	3.2	112
106	Diacyl lipid Micelle-Based Nanocarrier for Magnetically Guided Delivery of Drugs in Photodynamic Therapy. Molecular Pharmaceutics, 2006, 3, 415-423.	2.3	111
107	Heteroatom Substitution Induced Changes in Excited-State Photophysics and Singlet Oxygen Generation in Chalcogenoxanthylum Dyes: A Effect of Sulfur and Selenium Substitutions. Journal of Physical Chemistry B, 2004, 108, 8668-8672.	1.2	110
108	π -Conjugated Dendritic Nanosized Chromophore with Enhanced Two-Photon Absorption. Chemistry of Materials, 2005, 17, 6004-6011.	3.2	110

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109	Subwavelength Direct Laser Patterning of Conductive Gold Nanostructures by Simultaneous Photopolymerization and Photoreduction. <i>ACS Nano</i> , 2011, 5, 1947-1957.	7.3	110
110	New Method for Delivering a Hydrophobic Drug for Photodynamic Therapy Using Pure Nanocrystal Form of the Drug. <i>Molecular Pharmaceutics</i> , 2007, 4, 289-297.	2.3	109
111	Characterization of a New Solvent-Sensitive Two-Photon-Induced Fluorescent (Aminostyryl)pyridinium Salt Dye. <i>The Journal of Physical Chemistry</i> , 1996, 100, 4521-4525.	2.9	108
112	MMP-9 gene silencing by a quantum dot-siRNA nanoplex delivery to maintain the integrity of the blood brain barrier. <i>Brain Research</i> , 2009, 1282, 142-155.	1.1	108
113	Well-Defined Degradable Brush Polymer-Drug Conjugates for Sustained Delivery of Paclitaxel. <i>Molecular Pharmaceutics</i> , 2013, 10, 867-874.	2.3	108
114	Synthesis, Characterization, Two-Photon Absorption, and Optical Limiting Properties of Ladder-Type Oligo(p-phenylene)-Cored Chromophores. <i>Advanced Functional Materials</i> , 2008, 18, 2770-2779.	7.8	107
115	Standardizing Size- and Shape-Controlled Synthesis of Monodisperse Magnetite (Fe ₃ O ₄) Nanocrystals by Identifying and Exploiting Effects of Organic Impurities. <i>ACS Nano</i> , 2017, 11, 6370-6381.	7.3	107
116	Third-order non-linear optical properties of oriented films of poly(p-phenylene vinylene) investigated by femtosecond degenerate four wave mixing. <i>Polymer</i> , 1988, 29, 1940-1942.	1.8	106
117	Imaging Pancreatic Cancer Using Surface-Functionalized Quantum Dots. <i>Journal of Physical Chemistry B</i> , 2007, 111, 6969-6972.	1.2	106
118	Organically Modified Silica Nanoparticles Are Biocompatible and Can Be Targeted to Neurons In Vivo. <i>PLoS ONE</i> , 2012, 7, e29424.	1.1	106
119	Nanophotonics: Interactions, Materials, and Applications. <i>Journal of Physical Chemistry B</i> , 2000, 104, 7577-7587.	1.2	104
120	Two-Photon Excitation and Optical Spatial-Profile Reshaping via a Nonlinear Absorbing Medium. <i>Journal of Physical Chemistry A</i> , 2000, 104, 4805-4810.	1.1	104
121	Peptide-mediated synthesis of gold nanoparticles: effects of peptide sequence and nature of binding on physicochemical properties. <i>Nanoscale</i> , 2014, 6, 3165-3172.	2.8	104
122	Efficient Broadband Upconversion of Near-Infrared Light in Dye-Sensitized Core/Shell Nanocrystals. <i>Advanced Optical Materials</i> , 2016, 4, 1760-1766.	3.6	104
123	Shape Control of PbSe Nanocrystals Using Noble Metal Seed Particles. <i>Nano Letters</i> , 2006, 6, 709-714.	4.5	103
124	Bioconjugated Quantum Rods as Targeted Probes for Efficient Transmigration Across an in Vitro Blood-Brain Barrier. <i>Bioconjugate Chemistry</i> , 2008, 19, 1179-1185.	1.8	103
125	Chemistry, Functionalization, and Applications of Recent Monoelemental Two-Dimensional Materials and Their Heterostructures. <i>Chemical Reviews</i> , 2022, 122, 1127-1207.	23.0	103
126	Twisted Thiophene-Based Chromophores with Enhanced Intramolecular Charge Transfer for Cooperative Amplification of Third-Order Optical Nonlinearity. <i>Journal of the American Chemical Society</i> , 2016, 138, 6975-6984.	6.6	102

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127	Degenerate two-/three-photon absorption and optical power-limiting properties in femtosecond regime of a multi-branched chromophore. <i>Journal of Materials Chemistry</i> , 2006, 16, 2490.	6.7	101
128	Use of colloidal upconversion nanocrystals for energy relay solar cell light harvesting in the near-infrared region. <i>Journal of Materials Chemistry</i> , 2012, 22, 16709.	6.7	101
129	Biodegradable cationic polymeric nanocapsules for overcoming multidrug resistance and enabling drug-gene co-delivery to cancer cells. <i>Nanoscale</i> , 2014, 6, 1567-1572.	2.8	101
130	Molecular nonlinear optics: recent advances and applications. <i>Advances in Optics and Photonics</i> , 2016, 8, 328.	12.1	100
131	A novel near IR two-photon absorbing chromophore: Optical limiting and stabilization performances at an optical communication wavelength. <i>Chemical Physics Letters</i> , 2009, 475, 250-255.	1.2	99
132	Gold nanorod delivery of an ssRNA immune activator inhibits pandemic H1N1 influenza viral replication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10172-10177.	3.3	98
133	Synthesis, properties, and photodynamic properties in vitro of heavy-chalcogen analogues of tetramethylrosamine. <i>Bioorganic and Medicinal Chemistry</i> , 2004, 12, 2537-2544.	1.4	97
134	Highly efficient infrared-to-visible energy upconversion in Er ³⁺ :Y ₂ O ₃ . <i>Optics Letters</i> , 2000, 25, 338.	1.7	96
135	Degenerate nonlinear absorption and optical power limiting properties of asymmetrically substituted stilbenoid chromophores. Electronic supplementary information (ESI) available: Experimental details. See http://www.rsc.org/suppdata/jm/b3/b313185h/ . <i>Journal of Materials Chemistry</i> , 2004, 14, 982.	6.7	95
136	Bioconjugation of Luminescent Silicon Quantum Dots for Selective Uptake by Cancer Cells. <i>Bioconjugate Chemistry</i> , 2011, 22, 1081-1088.	1.8	95
137	Phonon Sidebands of Electronic Transitions in Molecular Crystals and Mixed Crystals. <i>Journal of Chemical Physics</i> , 1972, 56, 2814-2823.	1.2	94
138	Two-photon-pumped cavity lasing in a dye-solution-filled hollow-fiber system. <i>Optics Letters</i> , 1995, 20, 2393.	1.7	93
139	Synthesis, Characterization, and Second-Order Optical Nonlinearity of a Polyurethane Structure Functionalized with a Hemicyanine Dye. <i>Macromolecules</i> , 1996, 29, 861-867.	2.2	92
140	Two- and Three-Photon Absorption and Frequency Upconverted Emission of Silicon Quantum Dots. <i>Nano Letters</i> , 2008, 8, 2688-2692.	4.5	92
141	Enhancing the Delivery of Anti Retroviral Drug “Saquinavir” Across the Blood Brain Barrier Using Nanoparticles. <i>Current HIV Research</i> , 2010, 8, 396-404.	0.2	92
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143	A Novel Approach to a Bifunctional Photosensitizer for Tumor Imaging and Phototherapy. <i>Bioconjugate Chemistry</i> , 2005, 16, 1264-1274.	1.8	90
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