

Paras N Prasad

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571 papers	43,063 citations	103 h-index	188 g-index
581 ext. papers	46,558 ext. citations	7.6 avg, IF	7.52 L-index

#	Paper	IF	Citations
571	Upconversion nanoparticles: design, nanochemistry, and applications in theranostics. <i>Chemical Reviews</i> , 2014 , 114, 5161-214	68.1	1742
570	Multiphoton absorbing materials: molecular designs, characterizations, and applications. <i>Chemical Reviews</i> , 2008 , 108, 1245-330	68.1	1683
569	Nanochemistry and Nanomedicine for Nanoparticle-based Diagnostics and Therapy. <i>Chemical Reviews</i> , 2016 , 116, 2826-85	68.1	962
568	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, 3834-8	11.5	816
567	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, 7860-5	16.4	786
566	Highly Active Two-Photon Dyes: Design, Synthesis, and Characterization toward Application. <i>Chemistry of Materials</i> , 1998 , 10, 1863-1874	9.6	645
565	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, 2669-75	16.4	598
564	Combined Optical and MR Bioimaging Using Rare Earth Ion Doped NaYF ₄ Nanocrystals. <i>Advanced Functional Materials</i> , 2009 , 19, 853-859	15.6	583
563	(@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, 8280-7	16.7	582
562	Biocompatible luminescent silicon quantum dots for imaging of cancer cells. <i>ACS Nano</i> , 2008 , 2, 873-8	16.7	581
561	A general approach to binary and ternary hybrid nanocrystals. <i>Nano Letters</i> , 2006 , 6, 875-81	11.5	568
560	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, 11539-44	11.5	527
559	In vivo biodistribution and clearance studies using multimodal organically modified silica nanoparticles. <i>ACS Nano</i> , 2010 , 4, 699-708	16.7	446
558	Light upconverting core-shell nanostructures: nanophotonic control for emerging applications. <i>Chemical Society Reviews</i> , 2015 , 44, 1680-713	58.5	417
557	Two-photon absorption and optical-limiting properties of novel organic compounds. <i>Optics Letters</i> , 1995 , 20, 435-7	3	411
556	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, 11364-71	16.4	404
555	Optical tracking of organically modified silica nanoparticles as DNA carriers: a nonviral, nanomedicine approach for gene delivery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 279-84	11.5	400

554	Cooperative Enhancement of Two-Photon Absorption in Multi-branched Structures. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 10741-10745	3.4	394
553	New Generation Cadmium-Free Quantum Dots for Biophotonics and Nanomedicine. <i>Chemical Reviews</i> , 2016 , 116, 12234-12327	68.1	369
552	2003 ,		365
551	Nanotoxicity assessment of quantum dots: from cellular to primate studies. <i>Chemical Society Reviews</i> , 2013 , 42, 1236-50	58.5	359
550	Upconversion in Er ³⁺ :ZrO ₂ Nanocrystals. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 1909-1912	3.4	353
549	Core/shell NaGdF ₄ :Nd(3+)/NaGdF ₄ nanocrystals with efficient near-infrared to near-infrared downconversion photoluminescence for bioimaging applications. <i>ACS Nano</i> , 2012 , 6, 2969-77	16.7	350
548	Aqueous ferrofluid of magnetite nanoparticles: Fluorescence labeling and magnetophoretic control. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 3879-85	3.4	347
547	In vivo targeted cancer imaging, sentinel lymph node mapping and multi-channel imaging with biocompatible silicon nanocrystals. <i>ACS Nano</i> , 2011 , 5, 413-23	16.7	340
546	Observation of stimulated emission by direct three-photon excitation. <i>Nature</i> , 2002 , 415, 767-70	50.4	326
545	Two-dimensional MXenes: From morphological to optical, electric, and magnetic properties and applications. <i>Physics Reports</i> , 2020 , 848, 1-58	27.7	321
544	Intense visible and near-infrared upconversion photoluminescence in colloidal LiYF ₄ :Er ³⁺ nanocrystals under excitation at 1490 nm. <i>ACS Nano</i> , 2011 , 5, 4981-6	16.7	317
543	Optical limiting effect in a two-photon absorption dye doped solid matrix. <i>Applied Physics Letters</i> , 1995 , 67, 2433-2435	3.4	310
542	New Class of Two-Photon-Absorbing Chromophores Based on Dithienothiophene. <i>Chemistry of Materials</i> , 2000 , 12, 284-286	9.6	297
541	Imaging pancreatic cancer using bioconjugated InP quantum dots. <i>ACS Nano</i> , 2009 , 3, 502-10	16.7	294
540	Nanochemistry: Synthesis and Characterization of Multifunctional Nanoclinics for Biological Applications. <i>Chemistry of Materials</i> , 2002 , 14, 3715-3721	9.6	289
539	Photoluminescent Carbon Dots as Biocompatible Nanoprobes for Targeting Cancer Cells in Vitro. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 12062-12068	3.8	285
538	A systematic study of polarizability and microscopic third-order optical nonlinearity in thiophene oligomers. <i>Journal of Chemical Physics</i> , 1988 , 89, 5535-5541	3.9	285
537	Organically modified silica nanoparticles with covalently incorporated photosensitizer for photodynamic therapy of cancer. <i>Nano Letters</i> , 2007 , 7, 2835-42	11.5	283

536	Energy-Cascaded Upconversion in an Organic Dye-Sensitized Core/Shell Fluoride Nanocrystal. <i>Nano Letters</i> , 2015 , 15, 7400-7	11.5	279
535	Photonics and optoelectronics using nano-structured hybrid perovskite media and their optical cavities. <i>Physics Reports</i> , 2019 , 795, 1-51	27.7	262
534	Tunable Narrow Band Emissions from Dye-Sensitized Core/Shell/Shell Nanocrystals in the Second Near-Infrared Biological Window. <i>Journal of the American Chemical Society</i> , 2016 , 138, 16192-16195	16.4	257
533	Covalently dye-linked, surface-controlled, and bioconjugated organically modified silica nanoparticles as targeted probes for optical imaging. <i>ACS Nano</i> , 2008 , 2, 449-56	16.7	252
532	Diphenylaminofluorene-Based Two-Photon-Absorbing Chromophores with Various Electron Acceptors. <i>Chemistry of Materials</i> , 2001 , 13, 1896-1904	9.6	252
531	Fluorescence Upconversion Properties of Er ³⁺ -Doped TiO ₂ and BaTiO ₃ Nanocrystallites. <i>Chemistry of Materials</i> , 2003 , 15, 3650-3655	9.6	244
530	Glucose Biosensor Based on a Sol-Gel-Derived Platform. <i>Analytical Chemistry</i> , 1994 , 66, 3139-3144	7.8	232
529	Effect of crystal nature on upconversion luminescence in Er ³⁺ :ZrO ₂ nanocrystals. <i>Applied Physics Letters</i> , 2003 , 83, 284-286	3.4	228
528	Nanochemistry and nanomaterials for photovoltaics. <i>Chemical Society Reviews</i> , 2013 , 42, 8304-38	58.5	225
527	Biocompatible magnetofluorescent probes: luminescent silicon quantum dots coupled with superparamagnetic iron(III) oxide. <i>ACS Nano</i> , 2010 , 4, 5131-8	16.7	215
526	Sensitivity improved surface plasmon resonance biosensor for cancer biomarker detection based on plasmonic enhancement. <i>ACS Nano</i> , 2011 , 5, 4858-64	16.7	208
525	Singlet oxygen generation via two-photon excited FRET. <i>Journal of the American Chemical Society</i> , 2004 , 126, 5380-1	16.4	208
524	Sol-Gel-Processed SiO ₂ /TiO ₂ /Poly(vinylpyrrolidone) Composite Materials for Optical Waveguides. <i>Chemistry of Materials</i> , 1996 , 8, 235-241	9.6	200
523	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, 1474-86	24.3	198
522	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	9.6	198
521	Gold Nanorods Coated with Multilayer Polyelectrolyte as Contrast Agents for Multimodal Imaging. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 12552-12557	3.8	194
520	Biocompatible and biodegradable inorganic nanostructures for nanomedicine: Silicon and black phosphorus. <i>Nano Today</i> , 2019 , 25, 135-155	17.9	189
519	Conformationally restricted dipyrromethene boron difluoride (BODIPY) dyes: highly fluorescent, multicolored probes for cellular imaging. <i>Chemistry - A European Journal</i> , 2008 , 14, 5812-9	4.8	179

518	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, 5546-50	11.5	178
517	Multifunctional Nanoparticles as Biocompatible Targeted Probes for Human Cancer Diagnosis and Therapy. <i>Journal of Materials Chemistry</i> , 2009 , 19, 4655-4672		175
516	Quantum rod bioconjugates as targeted probes for confocal and two-photon fluorescence imaging of cancer cells. <i>Nano Letters</i> , 2007 , 7, 761-5	11.5	173
515	Upconversion: Tunable Near Infrared to Ultraviolet Upconversion Luminescence Enhancement in (BaYF ₄ :Yb,Tm)/CaF ₂ Core/Shell Nanoparticles for In situ Real-time Recorded Biocompatible Photoactivation (Small 19/2013). <i>Small</i> , 2013 , 9, 3212-3212	11	172
514	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	9.6	172
513	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	9.6	168
512	Assessing clinical prospects of silicon quantum dots: studies in mice and monkeys. <i>ACS Nano</i> , 2013 , 7, 7303-10	16.7	167
511	Novel Two-Photon Absorbing Dendritic Structures. <i>Chemistry of Materials</i> , 2000 , 12, 2838-2841	9.6	167
510	Aqueous-phase synthesis of highly luminescent CdTe/ZnTe core/shell quantum dots optimized for targeted bioimaging. <i>Small</i> , 2009 , 5, 1302-10	11	164
509	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	3.9	164
508	Hexamodal imaging with porphyrin-phospholipid-coated upconversion nanoparticles. <i>Advanced Materials</i> , 2015 , 27, 1785-90	24	163
507	Two-photon pumped cavity lasing in novel dye doped bulk matrix rods. <i>Applied Physics Letters</i> , 1995 , 67, 3703-3705	3.4	163
506	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	9.6	163
505	Affinity of anti fluorescein antibodies encapsulated within a transparent sol-gel glass. <i>Analytical Chemistry</i> , 1993 , 65, 2671-2675	7.8	163
504	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	3.4	160
503	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, 2003-8	7.7	158
502	Au-Cu(2-x)Se heterodimer nanoparticles with broad localized surface plasmon resonance as contrast agents for deep tissue imaging. <i>Nano Letters</i> , 2013 , 13, 4333-9	11.5	154
501	Zinc Oxide Nanocrystals for Non-resonant Nonlinear Optical Microscopy in Biology and Medicine. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 10721-10724	3.8	147

500	Efficient heterojunction photovoltaic cell utilizing nanocomposites of lead sulfide nanocrystals and a low-bandgap polymer. <i>Advanced Materials</i> , 2011 , 23, 3984-8	24	140
499	Multi-photon excitation properties of CdSe quantum dots solutions and optical limiting behavior in infrared range. <i>Optics Express</i> , 2007 , 15, 12818-33	3.3	138
498	Shape Control of CdS Nanocrystals in One-Pot Synthesis. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 2447-2458	3.4	137
497	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	3.8	136
496	Two-photon absorption based optical limiting and stabilization in organic molecule-doped solid materials. <i>Optics Communications</i> , 1995 , 117, 133-136	2	134
495	Observation of the Photorefractive Effect in a Hybrid Organic-Inorganic Nanocomposite. <i>Journal of the American Chemical Society</i> , 1999 , 121, 5287-5295	16.4	131
494	Fluorogenic, two-photon-triggered photoclick chemistry in live mammalian cells. <i>Journal of the American Chemical Society</i> , 2013 , 135, 16766-9	16.4	126
493	Biocompatible near-infrared quantum dots as ultrasensitive probes for long-term in vivo imaging applications. <i>Small</i> , 2009 , 5, 1997-2004	11	126
492	On-demand hydrogen generation using nanosilicon: splitting water without light, heat, or electricity. <i>Nano Letters</i> , 2013 , 13, 451-6	11.5	125
491	Efficient, two-photon pumped green upconverted cavity lasing in a new dye. <i>Optics Communications</i> , 1996 , 124, 33-37	2	124
490	Three-photon-absorption-induced fluorescence and optical limiting effects in an organic compound. <i>Optics Letters</i> , 1995 , 20, 1524-6	3	123
489	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	3.4	122
488	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	3.9	122
487	Biomolecular recognition principles for bionanocombinatorics: an integrated approach to elucidate enthalpic and entropic factors. <i>ACS Nano</i> , 2013 , 7, 9632-46	16.7	121
486	Studies of two-photon pumped frequency-upconverted lasing properties of a new dye material. <i>Journal of Applied Physics</i> , 1997 , 81, 2529-2537	2.5	121
485	Monodispersed InP Quantum Dots Prepared by Colloidal Chemistry in a Noncoordinating Solvent. <i>Chemistry of Materials</i> , 2005 , 17, 3754-3762	9.6	119
484	Conductive and optically non-linear polymeric langmuir-blodgett films of poly(3-dodecylthiophene). <i>Synthetic Metals</i> , 1988 , 26, 369-381	3.6	118
483	Ultrafast dynamics in multibranched structures with enhanced two-photon absorption. <i>Journal of the American Chemical Society</i> , 2005 , 127, 10128-9	16.4	117

482	Is there a role for organic materials chemistry in nonlinear optics and photonics?. <i>Chemistry of Materials</i> , 1990 , 2, 660-669	9.6	117
481	Chiral poly(fluorene-alt-benzothiadiazole) (PFBT) and nanocomposites with gold nanoparticles: plasmonically and structurally enhanced chirality. <i>Journal of the American Chemical Society</i> , 2010 , 132, 17346-8	16.4	114
480	Alleviating Luminescence Concentration Quenching in Upconversion Nanoparticles through Organic Dye Sensitization. <i>Journal of the American Chemical Society</i> , 2016 , 138, 15130-15133	16.4	111
479	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. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 13884-93	9.5	111
478	Polyelectrolyte Stabilized Nanowires from Fe ₃ O ₄ Nanoparticles via Magnetic Field Induced Self-Assembly. <i>Chemistry of Materials</i> , 2006 , 18, 591-593	9.6	111
477	Fluorescence resonance energy transfer in a novel two-photon absorbing system. <i>Journal of the American Chemical Society</i> , 2003 , 125, 1448-9	16.4	110
476	Twisted π -System chromophores for all-optical switching. <i>Journal of the American Chemical Society</i> , 2011 , 133, 6675-80	16.4	109
475	Optically and Magnetically Doped Organically Modified Silica Nanoparticles as Efficient Magnetically Guided Biomarkers for Two-Photon Imaging of Live Cancer Cells. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 7972-7977	3.8	109
474	π -Conjugated Dendritic Nanosized Chromophore with Enhanced Two-Photon Absorption. <i>Chemistry of Materials</i> , 2005 , 17, 6004-6011	9.6	109
473	Third-order nonlinearity and two-photon-induced molecular dynamics: Femtosecond time-resolved transient absorption, Kerr gate, and degenerate four-wave mixing studies in poly (p-phenylene vinylene)/sol-gel silica film. <i>Journal of Chemical Physics</i> , 1991 , 94, 5282-5290	3.9	107
472	Poly(lactide-graft-doxorubicin) nanoparticles with precisely controlled drug loading for pH-triggered drug delivery. <i>Biomacromolecules</i> , 2014 , 15, 524-32	6.9	105
471	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		104
470	Third order nonlinear optical interactions in thin films of poly-p-phenylenebenzobisthiazole polymer investigated by picosecond and subpicosecond degenerate four wave mixing. <i>Applied Physics Letters</i> , 1986 , 48, 1187-1189	3.4	104
469	Methamphetamine alters blood brain barrier permeability via the modulation of tight junction expression: Implication for HIV-1 neuropathogenesis in the context of drug abuse. <i>Brain Research</i> , 2008 , 1203, 133-48	3.7	103
468	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	15.6	102
467	Light-Harvesting Chromophores with Metalated Porphyrin Cores for Tuned Photosensitization of Singlet Oxygen via Two-Photon Excited FRET. <i>Chemistry of Materials</i> , 2006 , 18, 3682-3692	9.6	102
466	Observation of photorefractivity in a fullerene-doped polymer composite. <i>Physical Review B</i> , 1992 , 46, 9900-9902	3.3	100
465	Imaging pancreatic cancer using surface-functionalized quantum dots. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 6969-72	3.4	99

464	Diacyllipid micelle-based nanocarrier for magnetically guided delivery of drugs in photodynamic therapy. <i>Molecular Pharmaceutics</i> , 2006 , 3, 415-23	5.6	99
463	Shape control of PbSe nanocrystals using noble metal seed particles. <i>Nano Letters</i> , 2006 , 6, 709-14	11.5	99
462	Heteroatom Substitution Induced Changes in Excited-State Photophysics and Singlet Oxygen Generation in Chalcogenoxanthylum Dyes: Effect of Sulfur and Selenium Substitutions <i>Journal of Physical Chemistry B</i> , 2004 , 108, 8668-8672	3.4	99
461	New method for delivering a hydrophobic drug for photodynamic therapy using pure nanocrystal form of the drug. <i>Molecular Pharmaceutics</i> , 2007 , 4, 289-97	5.6	97
460	Comparative Study of Materials-Binding Peptide Interactions with Gold and Silver Surfaces and Nanostructures: A Thermodynamic Basis for Biological Selectivity of Inorganic Materials. <i>Chemistry of Materials</i> , 2014 , 26, 4960-4969	9.6	96
459	Two-Photon Excitation and Optical Spatial-Profile Reshaping via a Nonlinear Absorbing Medium <i>Journal of Physical Chemistry A</i> , 2000 , 104, 4805-4810	2.8	96
458	Nanophotonics: Interactions, Materials, and Applications. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 7577-7587	3.4	95
457	Organically modified silica nanoparticles are biocompatible and can be targeted to neurons in vivo. <i>PLoS ONE</i> , 2012 , 7, e29424	3.7	95
456	Well-defined degradable brush polymer-drug conjugates for sustained delivery of Paclitaxel. <i>Molecular Pharmaceutics</i> , 2013 , 10, 867-74	5.6	94
455	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		94
454	Anti-HIV-1 nanotherapeutics: promises and challenges for the future. <i>International Journal of Nanomedicine</i> , 2012 , 7, 5301-14	7.3	92
453	Subwavelength direct laser patterning of conductive gold nanostructures by simultaneous photopolymerization and photoreduction. <i>ACS Nano</i> , 2011 , 5, 1947-57	16.7	92
452	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, 142-55	3.7	92
451	Peptide-mediated synthesis of gold nanoparticles: effects of peptide sequence and nature of binding on physicochemical properties. <i>Nanoscale</i> , 2014 , 6, 3165-72	7.7	91
450	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, 10172-7	11.5	91
449	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	2.5	91
448	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		90
447	Biodegradable cationic polymeric nanocapsules for overcoming multidrug resistance and enabling drug-gene co-delivery to cancer cells. <i>Nanoscale</i> , 2014 , 6, 1567-72	7.7	89

446	Phonon Sidebands of Electronic Transitions in Molecular Crystals and Mixed Crystals. <i>Journal of Chemical Physics</i> , 1972 , 56, 2814-2823	3.9	89
445	Bioconjugated quantum rods as targeted probes for efficient transmigration across an in vitro blood-brain barrier. <i>Bioconjugate Chemistry</i> , 2008 , 19, 1179-85	6.3	88
444	Highly efficient infrared-to-visible energy upconversion in Er(3+):Y(2)O(3). <i>Optics Letters</i> , 2000 , 25, 338-40	3.9	88
443	Bioconjugation of luminescent silicon quantum dots for selective uptake by cancer cells. <i>Bioconjugate Chemistry</i> , 2011 , 22, 1081-8	6.3	87
442	Two- and three-photon absorption and frequency upconverted emission of silicon quantum dots. <i>Nano Letters</i> , 2008 , 8, 2688-92	11.5	87
441	Degenerate nonlinear absorption and optical power limiting properties of asymmetrically substituted stilbenoid chromophores. <i>Journal of Materials Chemistry</i> , 2004 , 14, 982		86
440	Efficient Broadband Upconversion of Near-Infrared Light in Dye-Sensitized Core/Shell Nanocrystals. <i>Advanced Optical Materials</i> , 2016 , 4, 1760-1766	8.1	85
439	Charge Carrier Transport in Poly(N-vinylcarbazole):CdS Quantum Dot Hybrid Nanocomposite. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 1556-1562	3.4	85
438	Synthesis, Characterization, and Second-Order Optical Nonlinearity of a Polyurethane Structure Functionalized with a Hemicyanine Dye. <i>Macromolecules</i> , 1996 , 29, 861-867	5.5	84
437	Cu _{2-x} Se nanocrystals with localized surface plasmon resonance as sensitive contrast agents for in vivo photoacoustic imaging: demonstration of sentinel lymph node mapping. <i>Advanced Healthcare Materials</i> , 2013 , 2, 952-7	10.1	83
436	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	3.9	83
435	Two-photon-pumped cavity lasing in a dye-solution-filled hollow-fiber system. <i>Optics Letters</i> , 1995 , 20, 2393	3	82
434	Enhancing the delivery of anti retroviral drug "Saquinavir" across the blood brain barrier using nanoparticles. <i>Current HIV Research</i> , 2010 , 8, 396-404	1.3	81
433	Preparation of Gold Nanoparticles and their Applications in Anisotropic Nanoparticle Synthesis and Bioimaging. <i>Plasmonics</i> , 2009 , 4, 79-93	2.4	81
432	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, 6975-84	16.4	81
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430	Tumor targeting and imaging in live animals with functionalized semiconductor quantum rods. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 710-9	9.5	80
429	Photogeneration, charge transport, and photoconductivity of a novel PVK/CdS-nanocrystal polymer composite. <i>Chemical Physics</i> , 1999 , 245, 417-428	2.3	80

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- 427 Formation of ZnTe Nanowires by Oriented Attachment. *Chemistry of Materials*, **2007**, 19, 4108-4110 9.6 78
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- 425 Photoinduced processes and resonant third-order nonlinearity in poly (3-dodecylthiophene) studied by femtosecond time resolved degenerate four wave mixing. *Journal of Chemical Physics*, **1990**, 93, 2201-2204 3.9 77
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- 423 Near-infrared phosphorescent polymeric nanomicelles: efficient optical probes for tumor imaging and detection. *ACS Applied Materials & Interfaces*, **2009**, 1, 1474-81 9.5 75
- 422 Study of luminescence properties of Er³⁺-ions in new tellurite glasses. *Optical Materials*, **2004**, 26, 267-270 3.9 75
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