

# Jin Z Zhang

## List of Publications by Year in descending order

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340  
papers

32,755  
citations

4136

87  
h-index

4545

171  
g-index

344  
all docs

344  
docs citations

344  
times ranked

34278  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen-Treated TiO <sub>2</sub> Nanowire Arrays for Photoelectrochemical Water Splitting. Nano Letters, 2011, 11, 3026-3033.	4.5	2,344
2	Nitrogen-Doped ZnO Nanowire Arrays for Photoelectrochemical Water Splitting. Nano Letters, 2009, 9, 2331-2336.	4.5	1,071
3	Sn-Doped Hematite Nanostructures for Photoelectrochemical Water Splitting. Nano Letters, 2011, 11, 2119-2125.	4.5	994
4	Au Nanostructure-Decorated TiO <sub>2</sub> Nanowires Exhibiting Photoactivity Across Entire UV-visible Region for Photoelectrochemical Water Splitting. Nano Letters, 2013, 13, 3817-3823.	4.5	812
5	State of the Art and Prospects for Halide Perovskite Nanocrystals. ACS Nano, 2021, 15, 10775-10981.	7.3	705
6	Hydrogen-treated WO <sub>3</sub> nanoflakes show enhanced photostability. Energy and Environmental Science, 2012, 5, 6180.	15.6	666
7	Facile Synthesis of Highly Photoactive $\hat{I}\pm\text{-Fe}_{2}\text{O}_{3}$ -Based Films for Water Oxidation. Nano Letters, 2011, 11, 3503-3509.	4.5	623
8	Generalized and Facile Synthesis of Semiconducting Metal Sulfide Nanocrystals. Journal of the American Chemical Society, 2003, 125, 11100-11105.	6.6	619
9	Double-Sided CdS and CdSe Quantum Dot Co-Sensitized ZnO Nanowire Arrays for Photoelectrochemical Hydrogen Generation. Nano Letters, 2010, 10, 1088-1092.	4.5	587
10	Ultrafast Electron Injection: Implications for a Photoelectrochemical Cell Utilizing an Anthocyanin Dye-Sensitized TiO <sub>2</sub> Nanocrystalline Electrode. Journal of Physical Chemistry B, 1997, 101, 9342-9351.	1.2	567
11	Ultrafast Studies of Photoexcited Electron Dynamics in $\hat{I}^{3-}$ and $\hat{I}\pm\text{-Fe}_{2}\text{O}_{3}$ Semiconductor Nanoparticles. Journal of Physical Chemistry B, 1998, 102, 770-776.	1.2	492
12	Nanostructured hematite: synthesis, characterization, charge carrier dynamics, and photoelectrochemical properties. Energy and Environmental Science, 2012, 5, 6682.	15.6	492
13	Synthesis, Characterization, and Tunable Optical Properties of Hollow Gold Nanospheres. Journal of Physical Chemistry B, 2006, 110, 19935-19944.	1.2	485
14	Synergistic Effect of CdSe Quantum Dot Sensitization and Nitrogen Doping of TiO <sub>2</sub> Nanostructures for Photoelectrochemical Solar Hydrogen Generation. Nano Letters, 2010, 10, 478-483.	4.5	474
15	Hematite heterostructures for photoelectrochemical water splitting: rational materials design and charge carrier dynamics. Energy and Environmental Science, 2016, 9, 2744-2775.	15.6	450
16	Photoelectrochemical Study of Nanostructured ZnO Thin Films for Hydrogen Generation from Water Splitting. Advanced Functional Materials, 2009, 19, 1849-1856.	7.8	436
17	The edge- and basal-plane-specific electrochemistry of a single-layer graphene sheet. Scientific Reports, 2013, 3, 2248.	1.6	432
18	<i>in vitro</i> and <i>in vivo</i> targeting of hollow gold nanoshells directed at epidermal growth factor receptor for photothermal ablation therapy. Molecular Cancer Therapeutics, 2008, 7, 1730-1739.	1.9	392

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19	Photoelectrochemical Water Splitting Using Dense and Aligned TiO <sub>2</sub> Nanorod Arrays. <i>Small</i> , 2009, 5, 104-111.	5.2	380
20	Well-designed 3D ZnIn <sub>2</sub> S <sub>4</sub> nanosheets/TiO <sub>2</sub> nanobelts as direct Z-scheme photocatalysts for CO <sub>2</sub> photoreduction into renewable hydrocarbon fuel with high efficiency. <i>Applied Catalysis B: Environmental</i> , 2017, 219, 611-618.	10.8	375
21	Multigram Scale Synthesis and Characterization of Monodisperse Tetragonal Zirconia Nanocrystals. <i>Journal of the American Chemical Society</i> , 2003, 125, 6553-6557.	6.6	373
22	Plasmonic Optical Properties and Applications of Metal Nanostructures. <i>Plasmonics</i> , 2008, 3, 127-150.	1.8	373
23	Efficient perovskite solar cells by metal ion doping. <i>Energy and Environmental Science</i> , 2016, 9, 2892-2901.	15.6	372
24	The Influence of Oxygen Content on the Thermal Activation of Hematite Nanowires. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4074-4079.	7.2	349
25	Ultrafast Studies of Electron Dynamics in Semiconductor and Metal Colloidal Nanoparticles: Effects of Size and Surface. <i>Accounts of Chemical Research</i> , 1997, 30, 423-429.	7.6	333
26	Interfacial Charge Carrier Dynamics of Colloidal Semiconductor Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2000, 104, 7239-7253.	1.2	321
27	Unique Gold Nanoparticle Aggregates as a Highly Active Surface-Enhanced Raman Scattering Substrate. <i>Journal of Physical Chemistry B</i> , 2004, 108, 19191-19197.	1.2	308
28	Targeted Photothermal Ablation of Murine Melanomas with Melanocyte-Stimulating Hormone Analog-Conjugated Hollow Gold Nanospheres. <i>Clinical Cancer Research</i> , 2009, 15, 876-886.	3.2	306
29	Synthesis, properties, and optoelectronic applications of two-dimensional MoS <sub>2</sub> and MoS <sub>2</sub> -based heterostructures. <i>Chemical Society Reviews</i> , 2018, 47, 6101-6127.	18.7	293
30	Preparation of pH-Responsive Mesoporous Silica Nanoparticles and Their Application in Controlled Drug Delivery. <i>Journal of Physical Chemistry C</i> , 2011, 115, 9926-9932.	1.5	291
31	Organolead Halide Perovskite Nanocrystals: Branched Capping Ligands Control Crystal Size and Stability. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8864-8868.	7.2	282
32	Novel Optical Properties and Emerging Applications of Metal Nanostructures. <i>Journal of Physical Chemistry C</i> , 2008, 112, 10323-10337.	1.5	279
33	Biomedical Applications of Shape-Controlled Plasmonic Nanostructures: A Case Study of Hollow Gold Nanospheres for Photothermal Ablation Therapy of Cancer. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 686-695.	2.1	272
34	Silica-Coated CdTe Quantum Dots Functionalized with Thiols for Bioconjugation to IgG Proteins. <i>Journal of Physical Chemistry B</i> , 2006, 110, 5779-5789.	1.2	258
35	Near Infrared Optical Absorption of Gold Nanoparticle Aggregates. <i>Journal of Physical Chemistry B</i> , 2002, 106, 7005-7012.	1.2	255
36	Optical properties and applications of hybrid semiconductor nanomaterials. <i>Coordination Chemistry Reviews</i> , 2009, 253, 3015-3041.	9.5	243

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37	Computational and Photoelectrochemical Study of Hydrogenated Bismuth Vanadate. <i>Journal of Physical Chemistry C</i> , 2013, 117, 10957-10964.	1.5	222
38	A perspective on solar-driven water splitting with all-oxide hetero-nanostructures. <i>Energy and Environmental Science</i> , 2011, 4, 3889.	15.6	219
39	Improving Nanoprobes Using Surface-Enhanced Raman Scattering from 30-nm Hollow Gold Particles. <i>Analytical Chemistry</i> , 2006, 78, 4732-4736.	3.2	198
40	Mechanisms for light induced degradation in MAPbI <sub>3</sub> perovskite thin films and solar cells. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	198
41	Nitrogen-Doped and CdSe Quantum-Dot-Sensitized Nanocrystalline TiO <sub>2</sub> Films for Solar Energy Conversion Applications. <i>Journal of Physical Chemistry C</i> , 2008, 112, 1282-1292.	1.5	192
42	Exciton Dynamics in Semiconductor Nanocrystals. <i>Advanced Materials</i> , 2013, 25, 2878-2896.	11.1	178
43	Ultrafast Studies of Excited-State Dynamics of Phthalocyanine and Zinc Phthalocyanine Tetrasulfonate in Solution. <i>Journal of Physical Chemistry A</i> , 1997, 101, 3207-3213.	1.1	173
44	Synthesis, Structural, and Optical Properties of Stable ZnS:Cu,Cl Nanocrystals. <i>Journal of Physical Chemistry A</i> , 2009, 113, 3830-3839.	1.1	159
45	Synthesis, Optical Spectroscopy and Ultrafast Electron Dynamics of PbS Nanoparticles with Different Surface Capping. <i>Journal of Physical Chemistry B</i> , 2000, 104, 11598-11605.	1.2	158
46	Highly Sensitive Detection of Proteins and Bacteria in Aqueous Solution Using Surface-Enhanced Raman Scattering and Optical Fibers. <i>Analytical Chemistry</i> , 2011, 83, 5888-5894.	3.2	155
47	Determination of the Exciton Binding Energy in CdSe Quantum Dots. <i>ACS Nano</i> , 2009, 3, 325-330.	7.3	151
48	Reversibility and Improved Hydrogen Release of Magnesium Borohydride. <i>Journal of Physical Chemistry C</i> , 2010, 114, 5224-5232.	1.5	144
49	Synthesis and Ultrafast Study of Cysteine- and Glutathione-Capped Ag <sub>2</sub> S Semiconductor Colloidal Nanoparticles. <i>Journal of Physical Chemistry A</i> , 1999, 103, 10194-10201.	1.1	143
50	Optical Properties and Potential Applications of Doped Semiconductor Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2004, 4, 919-947.	0.9	142
51	Preparation and Photoelectrochemical Properties of CdSe/TiO <sub>2</sub> Hybrid Mesoporous Structures. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 155-160.	2.1	142
52	Characterization of Primary Amine Capped CdSe, ZnSe, and ZnS Quantum Dots by FT-IR: Determination of Surface Bonding Interaction and Identification of Selective Desorption. <i>Langmuir</i> , 2011, 27, 8486-8493.	1.6	141
53	Ultrafast studies of photochromic spiropyrans in solution. <i>Journal of the American Chemical Society</i> , 1992, 114, 10921-10927.	6.6	136
54	Visible light driven hydrogen evolution by photocatalytic reforming of lignin and lactic acid using one-dimensional NiS/CdS nanostructures. <i>Applied Catalysis B: Environmental</i> , 2018, 227, 229-239.	10.8	135

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55	Core/shell cable-like Ni <sub>3</sub> S <sub>2</sub> nanowires/N-doped graphene-like carbon layers as composite electrocatalyst for overall electrocatalytic water splitting. <i>Chemical Engineering Journal</i> , 2020, 401, 126045.	6.6	134
56	Ultrafast electron dynamics at the liquid-metal interface: Femtosecond studies using surface plasmons in aqueous silver colloid. <i>Journal of Chemical Physics</i> , 1995, 102, 3860-3866.	1.2	132
57	Synthesis and Characterization of Ultrathin WO <sub>3</sub> Nanodisks Utilizing Long-Chain Poly(ethylene) Terephthalate. <i>Journal of Materials Chemistry</i> , 2011, 21, 10792.	1.2	132
58	Direct probe of size-dependent electronic relaxation in single-sized Au and nearly monodisperse Pt colloidal nano-particles. <i>Chemical Physics Letters</i> , 1997, 270, 139-144.	1.2	128
59	Quasi-core-shell TiO <sub>2</sub> /WO <sub>3</sub> and WO <sub>3</sub> /TiO <sub>2</sub> nanorod arrays fabricated by glancing angle deposition for solar water splitting. <i>Journal of Materials Chemistry</i> , 2011, 21, 10792.	6.7	127
60	B-Site doped lead halide perovskites: synthesis, band engineering, photophysics, and light emission applications. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2781-2808.	2.7	124
61	Direct femtosecond measurements of single collision dominated geminate recombination times of small molecules in liquids. <i>Chemical Physics Letters</i> , 1993, 203, 503-508.	1.2	123
62	Liquid core photonic crystal fiber sensor based on surface enhanced Raman scattering. <i>Applied Physics Letters</i> , 2007, 90, 193504.	1.5	123
63	Acidity-Triggered Tumor-Targeted Chimeric Peptide for Enhanced Intra-Nuclear Photodynamic Therapy. <i>Advanced Functional Materials</i> , 2016, 26, 4351-4361.	7.8	122
64	Controllable Cobalt Oxide/Au Hierarchically Nanostructured Electrode for Nonenzymatic Glucose Sensing. <i>Analytical Chemistry</i> , 2016, 88, 1617-1624.	3.2	116
65	Nile Red Derivative-Modified Nanostructure for Upconversion Luminescence Sensing and Intracellular Detection of Fe <sup>3+</sup> and MR Imaging. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 400-410.	4.0	116
66	Improving Charge Carrier Delocalization in Perovskite Quantum Dots by Surface Passivation with Conductive Aromatic Ligands. <i>ACS Energy Letters</i> , 2018, 3, 2931-2939.	8.8	116
67	Hollow Gold-Silver Double-Shell Nanospheres: Structure, Optical Absorption, and Surface-Enhanced Raman Scattering. <i>Journal of Physical Chemistry C</i> , 2008, 112, 6319-6329.	1.5	114
68	An electrochemical method to enhance the performance of metal oxides for photoelectrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2849-2855.	5.2	114
69	Metal oxide nanomaterials for solar hydrogen generation from photoelectrochemical water splitting. <i>MRS Bulletin</i> , 2011, 36, 48-55.	1.7	113
70	Photoelectrochemical study of oxygen deficient TiO <sub>2</sub> nanowire arrays with CdS quantum dot sensitization. <i>Nanoscale</i> , 2012, 4, 1463.	2.8	110
71	Tumor-Triggered Geometrical Shape Switch of Chimeric Peptide for Enhanced <i>in Vivo</i> Tumor Internalization and Photodynamic Therapy. <i>ACS Nano</i> , 2017, 11, 3178-3188.	7.3	109
72	Temperature-Sensitive Luminescent Nanoparticles and Films Based on a Terbium (III) Complex Probe. <i>Journal of Physical Chemistry C</i> , 2010, 114, 12642-12648.	1.5	106

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73	Physical and photoelectrochemical properties of Zr-doped hematite nanorod arrays. <i>Nanoscale</i> , 2013, 5, 9867.	2.8	106
74	Peptide-passivated Lead Halide Perovskite Nanocrystals Based on Synergistic Effect between Amino and Carboxylic Functional Groups. <i>Advanced Functional Materials</i> , 2017, 27, 1604018.	7.8	105
75	Nature of the power-dependent ultrafast relaxation process of photoexcited charge carriers in II-VI semiconductor quantum dots: Effects of particle size, surface, and electronic structure. <i>Journal of Chemical Physics</i> , 1998, 108, 2143-2151.	1.2	104
76	Tunable Photocurrent Spectrum in Well-Oriented Zinc Oxide Nanorod Arrays with Enhanced Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2008, 112, 8850-8855.	1.5	104
77	Ultrafast Electronic Relaxation and Coherent Vibrational Oscillation of Strongly Coupled Gold Nanoparticle Aggregates. <i>Journal of the American Chemical Society</i> , 2003, 125, 549-553.	6.6	103
78	Femtosecond studies of interparticle electron transfer in a coupled CdS-TiO <sub>2</sub> colloidal system. <i>Journal of Chemical Physics</i> , 1994, 101, 6222-6225.	1.2	102
79	Synthesis and characterization of Cu <sub>x</sub> S nanoparticles. Nature of the infrared band and charge-carrier dynamics. <i>Pure and Applied Chemistry</i> , 2000, 72, 101-117.	0.9	102
80	Optical and Surface Structural Properties of Mn <sup>2+</sup> -Doped ZnSe Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2003, 107, 6309-6317.	1.2	99
81	Synthesis, Optical and Structural Properties, and Charge Carrier Dynamics of Cu-Doped ZnSe Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2011, 115, 20864-20875.	1.5	99
82	Effect of temperature on light induced degradation in methylammonium lead iodide perovskite thin films and solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018, 174, 566-571.	3.0	97
83	Synthesis, Optical Properties, and Exciton Dynamics of Organolead Bromide Perovskite Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2015, 119, 26672-26682.	1.5	96
84	Dynamics and selective bond breaking in photodissociation. <i>Chemical Physics</i> , 1989, 139, 89-121.	0.9	93
85	High Br <sup>-</sup> Content CsPb(Cl <sub>y</sub> Br <sub>1-y</sub> ) <sub>3</sub> Perovskite Nanocrystals with Strong Mn <sup>2+</sup> Emission through Diverse Cation/Anion Exchange Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 11739-11746.	4.0	92
86	Luminescence decay kinetics of Mn <sup>2+</sup> -doped ZnS nanoclusters grown in reverse micelles. <i>Physical Review B</i> , 2000, 62, 2021-2028.	1.1	90
87	Surface-enhanced Raman scattering sensor based on D-shaped fiber. <i>Applied Physics Letters</i> , 2005, 87, 123105.	1.5	89
88	CdSe quantum dot-sensitized Au/TiO <sub>2</sub> hybrid mesoporous films and their enhanced photoelectrochemical performance. <i>Nano Research</i> , 2011, 4, 249-258.	5.8	87
89	Shell-thickness dependent electron transfer and relaxation in type-II core-shell CdS/TiO <sub>2</sub> structures with optimized photoelectrochemical performance. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22627-22635.	5.2	87
90	Interface engineering of heterojunction photocatalysts based on 1D nanomaterials. <i>Catalysis Science and Technology</i> , 2021, 11, 27-42.	2.1	86

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91	Highly reproducible synthesis of hollow gold nanospheres with near infrared surface plasmon absorption using PVP as stabilizing agent. <i>Journal of Materials Chemistry</i> , 2011, 21, 2344-2350.	6.7	85
92	Physical and photoelectrochemical characterization of Ti-doped hematite photoanodes prepared by solution growth. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14498.	5.2	83
93	Yolk-shell nanostructures as an emerging photocatalyst paradigm for solar hydrogen generation. <i>Nano Energy</i> , 2019, 62, 289-298.	8.2	83
94	Optical Properties and Exciton Dynamics of Alloyed Core/Shell/Shell Cd <sub>x</sub> Zn <sub>1-x</sub> Se/ZnSe/ZnS Quantum Dots. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 2893-2900.	4.0	82
95	The first absorption band for H <sub>2</sub> O: Interpretation of the absorption spectrum using time dependent pictures. <i>Journal of Chemical Physics</i> , 1988, 89, 5607-5613.	1.2	80
96	On-chip surface-enhanced Raman scattering detection using integrated liquid-core waveguides. <i>Applied Physics Letters</i> , 2007, 90, 211107.	1.5	80
97	Distance-Dependent Fluorescence Quenching and Binding of CdSe Quantum Dots by Functionalized Nitroxide Radicals. <i>Journal of Physical Chemistry C</i> , 2010, 114, 7793-7805.	1.5	80
98	Synthesis and Structural, Optical, and Dynamic Properties of Core/Shell/Shell CdSe/ZnSe/ZnS Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2012, 116, 25065-25073.	1.5	80
99	Surface Passivation of TiO <sub>2</sub> Nanowires Using a Facile Precursor-Treatment Approach for Photoelectrochemical Water Oxidation. <i>Journal of Physical Chemistry C</i> , 2014, 118, 15086-15094.	1.5	80
100	Atomic-Scale Perspective of Ultrafast Charge Transfer at a Dye-Semiconductor Interface. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2753-2759.	2.1	79
101	Thermoresponsive graphene oxide-PNIPAM nanocomposites with controllable grafting polymer chains via moderate <i>in situ</i> SET-LRP. <i>Journal of Polymer Science Part A</i> , 2012, 50, 4451-4458.	2.5	75
102	Uniform carbon-coated CdS core-shell nanostructures: synthesis, ultrafast charge carrier dynamics, and photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1078-1086.	5.2	75
103	Electron Enrichment in 3d Transition Metal Oxide Hetero-Nanostructures. <i>Nano Letters</i> , 2011, 11, 3855-3861.	4.5	74
104	Design of Gold Hollow Nanorods with Controllable Aspect Ratio for Multimodal Imaging and Combined Chemo-Photothermal Therapy in the Second Near-Infrared Window. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 36703-36710.	4.0	74
105	CH <sub>2</sub> I <sub>2</sub> photodissociation: Emission spectrum at 355 nm. <i>Journal of Chemical Physics</i> , 1988, 89, 309-313.	1.2	72
106	CH <sub>2</sub> I <sub>2</sub> photodissociation: Dynamical modeling. <i>Journal of Chemical Physics</i> , 1988, 89, 3602-3611.	1.2	72
107	Ultrafast Electronic Relaxation Dynamics in PbI <sub>2</sub> Semiconductor Colloidal Nanoparticles: A Femtosecond Transient Absorption Study. <i>Journal of Physical Chemistry B</i> , 1999, 103, 3128-3137.	1.2	72
108	Up-conversion luminescence of Mn <sup>2+</sup> -doped ZnS:Mn <sup>2+</sup> nanoparticles. <i>Physical Review B</i> , 2001, 64, .	1.1	70

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109	Photophysical Properties and Improved Stability of Organic-Inorganic Perovskite by Surface Passivation. <i>Journal of Physical Chemistry C</i> , 2018, 122, 15799-15818.	1.5	70
110	Optimizing oxygen functional groups in graphene quantum dots for improved antioxidant mechanism. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 1336-1343.	1.3	70
111	Effects of Hydrogen Treatment and Air Annealing on Ultrafast Charge Carrier Dynamics in ZnO Nanowires Under in Situ Photoelectrochemical Conditions. <i>Journal of Physical Chemistry C</i> , 2012, 116, 17360-17368.	1.5	68
112	Bandgap Engineering of Lead-Free Double Perovskite Cs <sub>2</sub> AgInCl <sub>6</sub> Nanocrystals via Cu <sup>2+</sup> -Doping. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8392-8398.	2.1	68
113	Femtosecond study of photo-induced electron dynamics in AgI and core/shell structured AgI/Ag <sub>2</sub> S and AgBr/Ag <sub>2</sub> S colloidal nanoparticles. <i>Journal of Chemical Physics</i> , 1998, 108, 3119-3126.	1.2	67
114	High-sensitivity molecular sensing using hollow-core photonic crystal fiber and surface-enhanced Raman scattering. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2010, 27, 977.	0.8	67
115	Polar-Solvent-Free Synthesis of Highly Photoluminescent and Stable CsPbBr <sub>3</sub> Nanocrystals with Controlled Shape and Size by Ultrasonication. <i>Chemistry of Materials</i> , 2019, 31, 365-375.	3.2	67
116	Improved Stability of Organometal Halide Perovskite Films and Solar Cells toward Humidity via Surface Passivation with Oleic Acid. <i>ACS Applied Energy Materials</i> , 2018, 1, 387-392.	2.5	66
117	Recent advances in ultrathin two-dimensional materials and biomedical applications for reactive oxygen species generation and scavenging. <i>Nanoscale</i> , 2020, 12, 19516-19535.	2.8	65
118	Optical and electrochemical characterization of poly(3-undecyl-2,2'-bithiophene) in thin film solid state TiO <sub>2</sub> photovoltaic solar cells. <i>Synthetic Metals</i> , 2003, 132, 197-204.	2.1	64
119	Optical trapping and light-induced agglomeration of gold nanoparticle aggregates. <i>Physical Review B</i> , 2006, 73, .	1.1	64
120	Tuning the emission spectrum of highly stable cesium lead halide perovskite nanocrystals through poly(lactic acid)-assisted anion-exchange reactions. <i>Journal of Materials Chemistry C</i> , 2018, 6, 5375-5383.	2.7	62
121	Efficient Trap-Mediated Mn <sup>2+</sup> Dopant Emission in Two Dimensional Single-Layered Perovskite (CH <sub>3</sub> CH <sub>2</sub> NH <sub>3</sub> ) <sub>2</sub> PbBr <sub>4</sub> . <i>Journal of Physical Chemistry C</i> , 2019, 123, 14239-14245.	1.5	62
122	A two layer electrode structure for improved Li Ion diffusion and volumetric capacity in Li Ion batteries. <i>Nano Energy</i> , 2017, 31, 377-385.	8.2	60
123	Spectroscopy and photodissociation dynamics of H <sub>2</sub> O: Time-dependent view. <i>Journal of Chemical Physics</i> , 1989, 90, 1666-1676.	1.2	59
124	A double substrate "sandwich" structure for fiber surface enhanced Raman scattering detection. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	59
125	Dependence of catalytic properties of Al/Fe <sub>2</sub> O <sub>3</sub> thermites on morphology of Fe <sub>2</sub> O <sub>3</sub> particles in combustion reactions. <i>Journal of Solid State Chemistry</i> , 2014, 219, 67-73.	1.4	59
126	Enhanced visible-light-driven photocatalytic hydrogen generation using NiCo <sub>2</sub> S <sub>4</sub> /CdS nanocomposites. <i>Chemical Engineering Journal</i> , 2019, 378, 122089.	6.6	59



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127	Unusual excitation intensity dependence of fluorescence of CdTe nanoparticles. <i>Journal of Chemical Physics</i> , 2003, 118, 12-16.	1.2	58
128	Enhancing Charge Carrier Delocalization in Perovskite Quantum Dot Solids with Energetically Aligned Conjugated Capping Ligands. <i>ACS Energy Letters</i> , 2020, 5, 817-825.	8.8	58
129	Reduction of H <sub>2</sub> AuCl <sub>4</sub> by Na <sub>2</sub> S Revisited: The Case for Au Nanoparticle Aggregates and Against Au <sub>2</sub> S/Au Core/Shell Particles. <i>Journal of Physical Chemistry C</i> , 2007, 111, 8892-8901.	1.5	56
130	From MONEX to the global monsoon: A review of monsoon system research. <i>Advances in Atmospheric Sciences</i> , 2015, 32, 10-31.	1.9	56
131	Miniature Hollow Gold Nanorods with Enhanced Effect for In Vivo Photoacoustic Imaging in the NIR Window. <i>Small</i> , 2020, 16, e2002748.	5.2	56
132	Coherent Vibrational Oscillations of Hollow Gold Nanospheres. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 228-235.	2.1	55
133	Effect of Al <sup>3+</sup> Co-doping on the Dopant Local Structure, Optical Properties, and Exciton Dynamics in Cu <sup>+</sup> -Doped ZnSe Nanocrystals. <i>ACS Nano</i> , 2013, 7, 8680-8692.	7.3	55
134	OH/OD bond breaking selectivity in hot photodissociation. <i>Chemical Physics Letters</i> , 1988, 149, 233-238.	1.2	54
135	Probing the Nature of Bandgap States in Hydrogen-Treated TiO <sub>2</sub> Nanowires. <i>Journal of Physical Chemistry C</i> , 2013, 117, 26821-26830.	1.5	54
136	Defect-Related Broadband Emission in Two-Dimensional Lead Bromide Perovskite Microsheets. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8157-8163.	2.1	54
137	Excitation-Wavelength Dependence of Fluorescence Intermittency in CdSe Nanorods. <i>ACS Nano</i> , 2008, 2, 2143-2153.	7.3	53
138	Photovoltaic Conversion Enhancement of CdSe Quantum Dot-Sensitized TiO <sub>2</sub> Decorated with Au Nanoparticles and P3OT. <i>Journal of Physical Chemistry C</i> , 2011, 115, 23209-23220.	1.5	53
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