

# Zhengquan Li

## List of Publications by Citations

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172  
ext. papers

10,672  
ext. citations

6.6  
avg, IF

6.49  
L-index

#	Paper	IF	Citations
167	Multicolor Core/Shell-Structured Upconversion Fluorescent Nanoparticles. <i>Advanced Materials</i> , <b>2008</b> , 20, 4765-4769	24	783
166	An efficient and user-friendly method for the synthesis of hexagonal-phase NaYF(4):Yb, Er/Tm nanocrystals with controllable shape and upconversion fluorescence. <i>Nanotechnology</i> , <b>2008</b> , 19, 345606 <sup>3-4</sup>	3.4	590
165	Monodisperse silica-coated polyvinylpyrrolidone/NaYF(4) nanocrystals with multicolor upconversion fluorescence emission. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 7732-5	16.4	425
164	Selected-control synthesis of ZnO nanowires and nanorods via a PEG-assisted route. <i>Inorganic Chemistry</i> , <b>2003</b> , 42, 8105-9	5.1	296
163	Titania coated upconversion nanoparticles for near-infrared light triggered photodynamic therapy. <i>ACS Nano</i> , <b>2015</b> , 9, 191-205	16.7	280
162	Synthesis of polyethylenimine/NaYF <sub>4</sub> nanoparticles with upconversion fluorescence. <i>Nanotechnology</i> , <b>2006</b> , 17, 5786-5791	3.4	269
161	Tracking transplanted cells in live animal using upconversion fluorescent nanoparticles. <i>Biomaterials</i> , <b>2009</b> , 30, 5104-13	15.6	232
160	Large-scale fabrication of TiO <sub>2</sub> hierarchical hollow spheres. <i>Inorganic Chemistry</i> , <b>2006</b> , 45, 3493-5	5.1	225
159	Facet-Engineered Surface and Interface Design of Photocatalytic Materials. <i>Advanced Science</i> , <b>2017</b> , 4, 1600216	13.6	223
158	High-quality water-soluble and surface-functionalized upconversion nanocrystals as luminescent probes for bioimaging. <i>Biomaterials</i> , <b>2011</b> , 32, 2959-68	15.6	197
157	Embedding Metal in the Interface of a p-n Heterojunction with a Stack Design for Superior Z-Scheme Photocatalytic Hydrogen Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 23133-42 <sup>9-5</sup>	9.5	170
156	Modification of NaYF <sub>4</sub> :Yb,[email protected] <sub>2</sub> Nanoparticles with Gold Nanocrystals for Tunable Green-to-Red Upconversion Emissions. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 3291-3296	3.8	168
155	Enabling Visible-Light-Driven Selective CO Reduction by Doping Quantum Dots: Trapping Electrons and Suppressing H Evolution. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 16447-16451	16.4	153
154	One-step solution-based catalytic route to fabricate novel alpha-MnO <sub>2</sub> hierarchical structures on a large scale. <i>Chemical Communications</i> , <b>2005</b> , 918-20	5.8	151
153	Surface and interface design in cocatalysts for photocatalytic water splitting and CO <sub>2</sub> reduction. <i>RSC Advances</i> , <b>2016</b> , 6, 57446-57463	3.7	147
152	Coating colloidal carbon spheres with CdS nanoparticles: microwave-assisted synthesis and enhanced photocatalytic activity. <i>Langmuir</i> , <b>2010</b> , 26, 18570-5	4	145
151	Tuning the autophagy-inducing activity of lanthanide-based nanocrystals through specific surface-coating peptides. <i>Nature Materials</i> , <b>2012</b> , 11, 817-26	27	140

150	Growth of well-aligned gamma-MnO <sub>2</sub> monocrystalline nanowires through a coordination-polymer-precursor route. <i>Chemistry - A European Journal</i> , <b>2003</b> , 9, 1645-51	4.8	140
149	Seed-mediated synthesis of NaY F <sub>4</sub> :Y <sup>b</sup> , Er/NaGdF <sub>4</sub> nanocrystals with improved upconversion fluorescence and MR relaxivity. <i>Nanotechnology</i> , <b>2010</b> , 21, 125602	3.4	134
148	Selective synthesis of cobalt hydroxide carbonate 3D architectures and their thermal conversion to cobalt spinel 3D superstructures. <i>Materials Chemistry and Physics</i> , <b>2006</b> , 99, 479-486	4.4	117
147	Thermally stable hematite hollow nanowires. <i>Inorganic Chemistry</i> , <b>2004</b> , 43, 6540-2	5.1	113
146	Boosting Photocatalytic CO <sub>2</sub> Reduction on CsPbBr <sub>3</sub> Perovskite Nanocrystals by Immobilizing Metal Complexes. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 1517-1525	9.6	112
145	Direct Z-Scheme 0D/2D Heterojunction of CsPbBr Quantum Dots/BiWO Nanosheets for Efficient Photocatalytic CO Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 31477-31485	9.5	111
144	From Complex Chains to 1D Metal Oxides: A Novel Strategy to Cu <sub>2</sub> O Nanowires. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 3697-3702	3.4	111
143	Integration of Multiple Plasmonic and Co-Catalyst Nanostructures on TiO <sub>2</sub> Nanosheets for Visible-Near-Infrared Photocatalytic Hydrogen Evolution. <i>Small</i> , <b>2016</b> , 12, 1640-8	11	111
142	Surface and Interface Engineering in Photocatalysis. <i>ChemNanoMat</i> , <b>2015</b> , 1, 223-239	3.5	101
141	Rational Growth of Various $\beta$ -MnO <sub>2</sub> Hierarchical Structures and $\beta$ -MnO <sub>2</sub> Nanorods via a Homogeneous Catalytic Route. <i>Crystal Growth and Design</i> , <b>2005</b> , 5, 1953-1958	3.5	101
140	Fabrication of self-supported patterns of aligned beta-FeOOH nanowires by a low-temperature solution reaction. <i>Chemistry - A European Journal</i> , <b>2003</b> , 9, 4991-6	4.8	97
139	Recent Advances in Glucose-Oxidase-Based Nanocomposites for Tumor Therapy. <i>Small</i> , <b>2019</b> , 15, e1903895		97
138	Aqueous-solution growth of GaP and InP nanowires: a general route to phosphide, oxide, sulfide, and tungstate nanowires. <i>Chemistry - A European Journal</i> , <b>2004</b> , 10, 654-60	4.8	93
137	Formation of Silver Nanowires Through a Sandwiched Reduction Process. <i>Advanced Materials</i> , <b>2003</b> , 15, 405-408	24	93
136	Interfacial synergism of Pd-decorated BiOCl ultrathin nanosheets for the selective oxidation of aromatic alcohols. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 6344-6355	13	91
135	Near-infrared quantum cutting in Ce <sup>3+</sup> , Yb <sup>3+</sup> co-doped YBO <sub>3</sub> phosphors by cooperative energy transfer. <i>Optical Materials</i> , <b>2010</b> , 32, 998-1001	3.3	89
134	Monodisperse Silica-Coated Polyvinylpyrrolidone/NaYF <sub>4</sub> Nanocrystals with Multicolor Upconversion Fluorescence Emission. <i>Angewandte Chemie</i> , <b>2006</b> , 118, 7896-7899	3.6	85
133	A New Cubic Phase for a NaYF <sub>4</sub> Host Matrix Offering High Upconversion Luminescence Efficiency. <i>Advanced Materials</i> , <b>2015</b> , 27, 5528-33	24	80

132	Hybrid lanthanide nanoparticles with paramagnetic shell coated on upconversion fluorescent nanocrystals. <i>Langmuir</i> , <b>2009</b> , 25, 12015-8	4	80
131	Depositing CdS nanoclusters on carbon-modified NaYF <sub>4</sub> :Yb,Tm upconversion nanocrystals for NIR-light enhanced photocatalysis. <i>Nanoscale</i> , <b>2016</b> , 8, 553-62	7.7	78
130	Synthesis of rhombic hierarchical YF <sub>3</sub> nanocrystals and their use as upconversion photocatalysts after TiO <sub>2</sub> coating. <i>Nanoscale</i> , <b>2013</b> , 5, 3030-6	7.7	75
129	Facile synthesis of ultrathin Au nanorods by aging the AuCl(oleylamine) complex with amorphous Fe nanoparticles in chloroform. <i>Nano Letters</i> , <b>2008</b> , 8, 3052-5	11.5	74
128	Production of novel amorphous carbon nanostructures from ferrocene in low-temperature solution. <i>Carbon</i> , <b>2004</b> , 42, 1447-1453	10.4	74
127	Hydriding Pd cocatalysts: An approach to giant enhancement on photocatalytic CO <sub>2</sub> reduction into CH <sub>4</sub> . <i>Nano Research</i> , <b>2017</b> , 10, 3396-3406	10	72
126	Facile synthesis of branched Au nanostructures by templating against a self-destructive lattice of magnetic Fe nanoparticles. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 9653-6	16.4	72
125	Controlled Growth of Metal-Organic Framework on Upconversion Nanocrystals for NIR-Enhanced Photocatalysis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 2899-2905	9.5	69
124	A novel hollow-hierarchical structured BiWO <sub>6</sub> with enhanced photocatalytic activity for CO photoreduction. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 523, 151-158	9.3	69
123	In vivo Biocompatibility, Biodistribution and Therapeutic Efficiency of Titania Coated Upconversion Nanoparticles for Photodynamic Therapy of Solid Oral Cancers. <i>Theranostics</i> , <b>2016</b> , 6, 1844-65	12.1	68
122	A novel non-template solution approach to fabricate ZnO hollow spheres with a coordination polymer as a reactant. <i>New Journal of Chemistry</i> , <b>2003</b> , 27, 1518	3.6	66
121	Photoactivation of core-shell titania coated upconversion nanoparticles and their effect on cell death. <i>Journal of Materials Chemistry B</i> , <b>2014</b> , 2, 7017-7026	7.3	65
120	Room-temperature surface-erosion route to ZnO nanorod arrays and urchin-like assemblies. <i>Chemistry - A European Journal</i> , <b>2004</b> , 10, 5823-8	4.8	65
119	A novel approach to carbon hollow spheres and vessels from CCl <sub>4</sub> at low temperatures. <i>Chemical Communications</i> , <b>2003</b> , 904-5	5.8	63
118	ZnO/ZnFe <sub>2</sub> O <sub>4</sub> Magnetic Fluorescent Bifunctional Hollow Nanospheres: Synthesis, Characterization, and Their Optical/Magnetic Properties. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 17455-17459	3.8	57
117	Directly coat TiO <sub>2</sub> on hydrophobic NaYF <sub>4</sub> :Yb,Tm nanoplates and regulate their photocatalytic activities with the core size. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 13486-13491	13	55
116	Controlled synthesis of Gd <sub>2</sub> (WO <sub>4</sub> ) <sub>3</sub> microstructures and their tunable photoluminescent properties after Eu <sup>3+</sup> /Tb <sup>3+</sup> doping. <i>CrystEngComm</i> , <b>2012</b> , 14, 7043	3.3	50
115	Facile and controlled electrochemical route to three-dimensional hierarchical dendritic gold nanostructures. <i>Electrochimica Acta</i> , <b>2013</b> , 109, 136-144	6.7	48

114	Facile synthesis of CdS/C core-shell nanospheres with ultrathin carbon layer for enhanced photocatalytic properties and stability. <i>Applied Surface Science</i> , <b>2016</b> , 362, 126-131	6.7	46
113	Facet engineered interface design of NaYF:Yb,Tm upconversion nanocrystals on BiOCl nanoplates for enhanced near-infrared photocatalysis. <i>Nanoscale</i> , <b>2016</b> , 8, 19014-19024	7.7	42
112	Synthesis of small yolk-shell Fe <sub>3</sub> O <sub>4</sub> @TiO <sub>2</sub> nanoparticles with controllable thickness as recyclable photocatalysts. <i>RSC Advances</i> , <b>2014</b> , 4, 8901	3.7	38
111	Hierarchical nanostructures of nickel-doped zinc oxide: Morphology controlled synthesis and enhanced visible-light photocatalytic activity. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 618, 318-325	5.7	37
110	Selective growth of ZnO nanostructures with coordination polymers. <i>Nanotechnology</i> , <b>2005</b> , 16, 2303-8	3.4	37
109	Facile generation of carbon quantum dots in MIL-53(Fe) particles as localized electron acceptors for enhancing their photocatalytic Cr(VI) reduction. <i>Inorganic Chemistry Frontiers</i> , <b>2018</b> , 5, 3170-3177	6.8	36
108	Delay-Sensitive Task Offloading in the 802.11p-Based Vehicular Fog Computing Systems. <i>IEEE Internet of Things Journal</i> , <b>2020</b> , 7, 773-785	10.7	35
107	Etching approach to hybrid structures of PtPd nanocages and graphene for efficient oxygen reduction reaction catalysts. <i>Nano Research</i> , <b>2015</b> , 8, 2789-2799	10	34
106	Boosting the photocatalytic CO reduction of metal-organic frameworks by encapsulating carbon dots. <i>Nanoscale</i> , <b>2020</b> , 12, 9533-9540	7.7	34
105	Synthesis of Mesoporous SiO <sub>2</sub> @TiO <sub>2</sub> Core/Shell Nanospheres with Enhanced Photocatalytic Properties. <i>Particle and Particle Systems Characterization</i> , <b>2013</b> , 30, 306-310	3.1	34
104	Multicolor polystyrene nanospheres tagged with up-conversion fluorescent nanocrystals. <i>Nanotechnology</i> , <b>2008</b> , 19, 255601	3.4	34
103	MOF-derived bimetallic Fe-Ni-P nanotubes with tunable compositions for dye-sensitized photocatalytic H <sub>2</sub> and O <sub>2</sub> production. <i>Chemical Engineering Journal</i> , <b>2020</b> , 384, 123354	14.7	34
102	MOF-mediated synthesis of monodisperse Co(OH) <sub>2</sub> flower-like nanosheets for enhanced oxygen evolution reaction. <i>Electrochimica Acta</i> , <b>2018</b> , 273, 327-334	6.7	33
101	Shape-controlled synthesis of well-dispersed platinum nanocubes supported on graphitic carbon nitride as advanced visible-light-driven catalyst for efficient photoreduction of hexavalent chromium. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 535, 41-49	9.3	33
100	Sequential coating upconversion NaYF:Yb,Tm nanocrystals with SiO and ZnO layers for NIR-driven photocatalytic and antibacterial applications. <i>Materials Science and Engineering C</i> , <b>2017</b> , 70, 1141-1148	8.3	32
99	Selected-control solution-phase route to multiple-dendritic and cuboidal structures of PbSe. <i>Journal of Solid State Chemistry</i> , <b>2006</b> , 179, 56-61	3.3	31
98	In-suit photodeposition of MoS <sub>2</sub> onto CdS quantum dots for efficient photocatalytic H <sub>2</sub> evolution. <i>Applied Surface Science</i> , <b>2021</b> , 539, 148234	6.7	31
97	Recent advances in metal halide perovskite photocatalysts: Properties, synthesis and applications. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 54, 770-785	12	29

- 96 Facile microemulsion route to coat carbonized glucose on upconversion nanocrystals as high luminescence and biocompatible cell-imaging probes. *Nanotechnology*, **2010**, 21, 315105 3.4 28
- 95 Solvothermal Synthesis of Monodisperse PtCu Dodecahedral Nanoframes with Enhanced Catalytic Activity and Durability for Hydrogen Evolution Reaction. *ACS Applied Energy Materials*, **2018**, 1, 5054-5061 6.1 26
- 94  $\text{Fe}_2\text{O}_3$  decorated ZnO nanorod-assembled hollow microspheres: Synthesis and enhanced visible-light photocatalysis. *Materials Letters*, **2014**, 135, 135-138 3.3 26
- 93 Facile Cl<sup>-</sup> mediated hydrothermal synthesis of large-scale Ag nanowires from AgCl hydrosol. *CrystEngComm*, **2013**, 15, 2598 3.3 26
- 92 Mesoporous silica-coated NaYF<sub>4</sub> nanocrystals: facile synthesis, in vitro bioimaging and photodynamic therapy of cancer cells. *RSC Advances*, **2012**, 2, 12263 3.7 26
- 91 Micelle-assisted fabrication of necklace-shaped assembly of inorganic fullerene-like molybdenum disulfide nanospheres. *Chemical Physics Letters*, **2003**, 382, 180-185 2.5 26
- 90 Synthesis of g-C<sub>3</sub>N<sub>4</sub>-based NaYF<sub>4</sub>:Yb,Tm@TiO<sub>2</sub> ternary composite with enhanced Vis/NIR-driven photocatalytic activities. *Applied Surface Science*, **2017**, 410, 383-392 6.7 25
- 89 MOF-derived hollow  $\text{FeOOH}$  polyhedra anchored with  $\text{Ni}(\text{OH})_2$  nanosheets as efficient electrocatalysts for oxygen evolution. *Electrochimica Acta*, **2019**, 301, 258-266 6.7 25
- 88 Synthesis of vis/NIR-driven hybrid photocatalysts by electrostatic assembly of NaYF<sub>4</sub>:Yb, Tm nanocrystals on g-C<sub>3</sub>N<sub>4</sub> nanosheets. *Materials Letters*, **2015**, 146, 87-90 3.3 25
- 87 Simultaneous formation of silica-protected and N-doped TiO<sub>2</sub> hollow spheres using organic/inorganic silica as self-removed templates. *Journal of Materials Chemistry A*, **2015**, 3, 2234-2241 13 25
- 86 Complexing-reagent assisted synthesis of  $\text{Fe}$  and  $\text{Fe}_2\text{O}_3$  nanowires under mild conditions. *New Journal of Chemistry*, **2003**, 27, 588 3.6 24
- 85 Synthesis of UV/NIR photocatalysts by coating TiO<sub>2</sub> shell on peanut-like YF<sub>3</sub>:Yb,Tm upconversion nanocrystals. *Materials Letters*, **2013**, 106, 238-241 3.3 23
- 84 Facile synthesis of lanthanide nanoparticles with paramagnetic, down- and up-conversion properties. *Nanoscale*, **2010**, 2, 1240-3 7.7 23
- 83 Direct Generation of Fine Bi<sub>2</sub>WO<sub>6</sub> Nanocrystals on g-C<sub>3</sub>N<sub>4</sub> Nanosheets for Enhanced Photocatalytic Activity. *ChemNanoMat*, **2016**, 2, 732-738 3.5 22
- 82 A general approach to spindle-assembled lanthanide borate nanocrystals and their photoluminescence upon Eu<sup>3+</sup>/Tb<sup>3+</sup> doping. *Inorganic Chemistry*, **2013**, 52, 9590-6 5.1 22
- 81 Incorporation of Pd into Pt Co-Catalysts toward Enhanced Photocatalytic Water Splitting. *Particle and Particle Systems Characterization*, **2016**, 33, 506-511 3.1 22
- 80 Activation of specific sites on cubic nanocrystals: a new pathway for controlled epitaxial growth towards catalytic applications. *Journal of Materials Chemistry A*, **2013**, 1, 4228 13 21
- 79 Heterogeneous Semiconductor Shells Sequentially Coated on Upconversion Nanoplates for NIR-Light Enhanced Photocatalysis. *Inorganic Chemistry*, **2017**, 56, 2328-2336 5.1 20

78	Facile synthesis of GdBO <sub>3</sub> spindle assemblies and microdisks as versatile host matrices for lanthanide doping. <i>CrystEngComm</i> , <b>2012</b> , 14, 3959	3.3	20
77	ZnSe Nanorods-CsSnCl Perovskite Heterojunction Composite for Photocatalytic CO Reduction.. <i>ACS Nano</i> , <b>2022</b> ,	16.7	20
76	Coupling CsPbBr Quantum Dots with Covalent Triazine Frameworks for Visible-Light-Driven CO Reduction. <i>ChemSusChem</i> , <b>2021</b> , 14, 1131-1139	8.3	20
75	Controlled synthesis of uniform LaF <sub>3</sub> polyhedrons, nanorods and nanoplates using NaOH and ligands. <i>Nanotechnology</i> , <b>2013</b> , 24, 145604	3.4	19
74	Solution-phase template approach for the synthesis of Cu(2)S nanoribbons. <i>Dalton Transactions</i> , <b>2006</b> , 149-51	4.3	19
73	Metal-organic frameworks-derived hollow-structured iron-cobalt bimetallic phosphide electrocatalysts for efficient oxygen evolution reaction. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 821, 153463	5.7	19
72	Glucose-assisted transformation of Ni-doped-ZnO@carbon to a Ni-doped-ZnO@void@SiO <sub>2</sub> core-shell nanocomposite photocatalyst. <i>RSC Advances</i> , <b>2016</b> , 6, 38653-38661	3.7	19
71	A Task Offloading Scheme in Vehicular Fog and Cloud Computing System. <i>IEEE Access</i> , <b>2020</b> , 8, 1173-1184	4.5	18
70	Ultrathin nanosheets of palladium in boosting its cocatalyst role and plasmonic effect towards enhanced photocatalytic hydrogen evolution. <i>RSC Advances</i> , <b>2016</b> , 6, 56800-56806	3.7	18
69	Imaging gap junctions with silica-coated upconversion nanoparticles. <i>Medical and Biological Engineering and Computing</i> , <b>2010</b> , 48, 1033-41	3.1	18
68	Reverse Micelle-assisted Route to Control Diameters of ZnO Nanorods by Selecting Different Precursors. <i>Chemistry Letters</i> , <b>2003</b> , 32, 760-761	1.7	18
67	Enabling Visible-Light-Driven Selective CO <sub>2</sub> Reduction by Doping Quantum Dots: Trapping Electrons and Suppressing H <sub>2</sub> Evolution. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 16685-16689	3.6	18
66	Hybrid cobalt-based electrocatalysts with adjustable compositions for electrochemical water splitting derived from Co <sup>2+</sup> -Loaded MIL-53(Fe) particles. <i>Electrochimica Acta</i> , <b>2018</b> , 286, 397-405	6.7	17
65	Facile synthesis and optical property of SnO <sub>2</sub> flower-like architectures. <i>Journal of Nanoparticle Research</i> , <b>2006</b> , 8, 1065-1069	2.3	17
64	Current progress in the controlled synthesis and biomedical applications of ultrasmall (. <i>Dalton Transactions</i> , <b>2018</b> , 47, 8538-8556	4.3	16
63	Anchoring NaYF <sub>4</sub> :Yb,Tm upconversion nanocrystals on concave MIL-53(Fe) octahedra for NIR-light enhanced photocatalysis. <i>Inorganic Chemistry Frontiers</i> , <b>2017</b> , 4, 1757-1764	6.8	16
62	Facile Synthesis of Branched Au Nanostructures by Templating Against a Self-Destructive Lattice of Magnetic Fe Nanoparticles. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 9799-9802	3.6	15
61	MOF-derived synthesis of MnS/InSp-n heterojunctions with hierarchical structures for efficient photocatalytic CO reduction. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 588, 547-556	9.3	15

60	Ag-decorated Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> core-shell nanospheres: Seed-mediated growth preparation and their antibacterial activity during the consecutive recycling. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 676, 113-119	5.7	15
59	Surface Defect Engineering of CsPbBr <sub>3</sub> Nanocrystals for High Efficient Photocatalytic CO <sub>2</sub> Reduction. <i>Solar Rrl</i> , <b>2021</b> , 5, 2100154	7.1	14
58	Velocity-Adaptive V2I Fair-Access Scheme Based on IEEE 802.11 DCF for Platooning Vehicles. <i>Sensors</i> , <b>2018</b> , 18,	3.8	14
57	Dye-Sensitized Fe-MOF nanosheets as Visible-Light driven photocatalyst for high efficient photocatalytic CO reduction. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 607, 1180-1188	9.3	14
56	Convenient synthesis of magnetically recyclable Fe <sub>3</sub> O <sub>4</sub> @C@CdS photocatalysts by depositing CdS nanocrystals on carbonized ferrocene. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 646, 978-982	5.7	13
55	Self-assembly of LaF <sub>3</sub> :Yb,Er/Tm nanoplates into colloidal spheres and tailoring their upconversion emissions with fluorescent dyes. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 8949-8955	7.1	13
54	Anisotropic growth of palladium twinned nanostructures controlled by kinetics and their unusual activities in galvanic replacement. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 8195		13
53	Aqueous synthesis of group IIIA nitrides at low temperature. <i>New Journal of Chemistry</i> , <b>2004</b> , 28, 214	3.6	13
52	Immobilization of catalytic sites on quantum dots by ligand bridging for photocatalytic CO reduction. <i>Nanoscale</i> , <b>2020</b> , 12, 2507-2514	7.7	13
51	A Swarming Approach to Optimize the One-Hop Delay in Smart Driving Inter-Platoon Communications. <i>Sensors</i> , <b>2018</b> , 18,	3.8	13
50	Synthesis of Nd <sup>3+</sup> /Yb <sup>3+</sup> sensitized upconversion core-shell nanocrystals with optimized hosts and doping concentrations. <i>RSC Advances</i> , <b>2015</b> , 5, 62899-62904	3.7	12
49	A novel etching and reconstruction route to ultrathin porous TiO <sub>2</sub> hollow spheres for enhanced photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 1627-1634	6.7	12
48	Self-assembly of TiO <sub>2</sub> composite microspheres: Facile synthesis, characterization and photocatalytic activities. <i>CrystEngComm</i> , <b>2012</b> , 14, 7118	3.3	12
47	Synthesis of multi-walled and bamboo-like well-crystalline CN <sub>x</sub> nanotubes with controllable nitrogen concentration (x = 0.05-1.02). <i>Inorganic Chemistry</i> , <b>2005</b> , 44, 6506-8	5.1	12
46	Activate FeS Nanorods by Ni Doping for Efficient Dye-Sensitized Photocatalytic Hydrogen Production. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 14198-14206	9.5	12
45	Boosting photocatalytic hydrogen generation of cadmium telluride colloidal quantum dots by nickel ion doping. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 549, 63-71	9.3	11
44	Improved Metric Sorting for Successive Cancellation List Decoding of Polar Codes. <i>IEEE Communications Letters</i> , <b>2019</b> , 1-1	3.8	11
43	Controlled synthesis of YF <sub>3</sub> nanocrystals with multiple morphologies in ethylene glycol. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 560, 10-14	5.7	11



42	Ionic liquid-based approach to monodisperse luminescent LaF <sub>3</sub> :Ce,Tb nanodiskettes: synthesis, structural and photoluminescent properties. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 1913-1919	1.3	10
41	Fabrication of dispersive Co(OH) <sub>2</sub> nanosheets on graphene nanoribbons for boosting their oxygen evolution performance. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 7692-7701	4.3	10
40	Rational Design of Metal Halide Perovskite Nanocrystals for Photocatalytic CO <sub>2</sub> Reduction: Recent Advances, Challenges, and Prospects. <i>ACS Energy Letters</i> , 2043-2059	20.1	10
39	Time-Dependent Performance Analysis of the 802.11p-Based Platooning Communications Under Disturbance. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 15760-15773	6.8	9
38	Metal-organic framework composites for energy conversion and storage. <i>Journal of Semiconductors</i> , <b>2020</b> , 41, 091707	2.3	9
37	Coating a N-doped TiO <sub>2</sub> shell on dually sensitized upconversion nanocrystals to provide NIR-enhanced photocatalysts for efficient utilization of upconverted emissions. <i>Inorganic Chemistry Frontiers</i> , <b>2016</b> , 3, 1190-1197	6.8	9
36	Synthesis of biocompatible and luminescent NaGdF <sub>4</sub> :Yb,Er@ Carbon nanoparticles in water-in-oil microemulsion. <i>Journal of Materials Research</i> , <b>2011</b> , 26, 82-87	2.5	8
35	Trajectory Protection Schemes Based on a Gravity Mobility Model in IoT. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 148	2.6	7
34	Interference-Free Hybrid Optical OFDM With Low-Complexity Receiver for Wireless Optical Communications. <i>IEEE Communications Letters</i> , <b>2019</b> , 23, 818-821	3.8	7
33	A general method to NaLnF <sub>4</sub> assemblies with ordered structures and strong emissions. <i>Materials Letters</i> , <b>2011</b> , 65, 3516-3518	3.3	7
32	In Situ Generating CsPbBr <sub>3</sub> Nanocrystals on O-defective WO <sub>3</sub> as Z-scheme and NIR-responsive Heterojunctions for Photocatalytic CO <sub>2</sub> Reduction.. <i>ChemSusChem</i> , <b>2021</b> ,	8.3	7
31	Belief Propagation Bit-Strengthening Decoder for Polar Codes. <i>IEEE Communications Letters</i> , <b>2019</b> , 23, 1958-1961	3.8	6
30	Quality of experience-driven resource allocation in vehicular cloud long-term evolution networks. <i>Transactions on Emerging Telecommunications Technologies</i> , <b>2020</b> , 31, e4036	1.9	6
29	Performance Analysis of a Downlink Cooperative NOMA Network Over Nakagami-m Fading Channels. <i>IEEE Access</i> , <b>2018</b> , 6, 53034-53043	3.5	6
28	Facile synthesis of Ag@TiO <sub>2</sub> (B) hierarchical core-shell nanowires: facile synthesis, growth mechanism and photocatalytic and antibacterial applications. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2015</b> , 26, 5753-5760	2.1	5
27	One-pot synthesis of biocompatible Te@phenol formaldehyde resin core-shell nanowires with uniform size and unique fluorescent properties by a synergized soft-hard template process. <i>Nanotechnology</i> , <b>2010</b> , 21, 495602	3.4	5
26	Facile synthesis and properties of spherical assemblies of NaYF <sub>4</sub> nanocrystals with consistent crystalline orientation. <i>CrystEngComm</i> , <b>2011</b> , 13, 7009	3.3	5
25	Multilevel storage and photoinduced-reset memory by an inorganic perovskite quantum-dot/polystyrene floating-gate organic transistor.. <i>RSC Advances</i> , <b>2020</b> , 10, 43225-43232	3.7	5

24	A heterostructure of halide and oxide double perovskites Cs <sub>2</sub> AgBiBr <sub>6</sub> /Sr <sub>2</sub> FeNbO <sub>6</sub> for boosting the charge separation toward high efficient photocatalytic CO <sub>2</sub> reduction under visible-light irradiation. <i>Chemical Engineering Journal</i> , <b>2022</b> , 446, 137197	14.7	5
23	Facile Embedding of Au nanocrystals into silica spheres with controllable quantity for improved catalytic reduction of p-nitrophenol. <i>Inorganic Chemistry Frontiers</i> , <b>2015</b> , 2, 938-944	6.8	4
22	Upconversion nanoparticles coupled with hierarchical ZnInS nanorods as a near-infrared responsive photocatalyst for photocatalytic CO reduction.. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 612, 782-797	7.3	4
21	A Low Complexity Precoding Algorithm Based on Parallel Conjugate Gradient for Massive MIMO Systems. <i>IEEE Access</i> , <b>2018</b> , 6, 54010-54017	3.5	4
20	Mn-Doped Perovskite Nanocrystals for Photocatalytic CO <sub>2</sub> Reduction: Insight into the Role of the Charge Carriers with Prolonged Lifetime. <i>Solar Rrl</i> , 2200294	7.1	4
19	An Improved Jacobi-Based Detector for Massive MIMO Systems. <i>Information (Switzerland)</i> , <b>2019</b> , 10, 165	2.6	3
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17	Hydrothermal synthesis and photoluminescent properties of rod-shape assemblies of LaBO <sub>3</sub> :Eu <sup>3+</sup> nanocrystals. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2014</b> , 14, 4579-83	1.3	3
16	Facile preparation of hydrophilic sodium yttrium fluoride nanorods using hydrophobic nanospheres as precursor. <i>Journal of Materials Research</i> , <b>2012</b> , 27, 2101-2105	2.5	3
15	Calculation of High Rydberg Levels of Atom Zn with the WBEPM Theory. <i>Journal of the Physical Society of Japan</i> , <b>2002</b> , 71, 2677-2680	1.5	3
14	Adaptively Biased OFDM for IM/DD-Aided Optical Wireless Communication Systems. <i>IEEE Wireless Communications Letters</i> , <b>2020</b> , 9, 698-701	5.9	3
13	Semidefinite programming based resource allocation for energy consumption minimization in software defined wireless sensor networks <b>2016</b> ,		3
12	Synthesis of dye-loaded NaYF <sub>4</sub> :Yb, Er superparticles for tunable upconversion emissions. <i>Micro and Nano Letters</i> , <b>2015</b> , 10, 144-146	0.9	2
11	Massive MIMO Pre-Coding Algorithm Based on Improved Newton Iteration <b>2017</b> ,		2
10	A topology control algorithm based on homology theory in software-defined sensor networks <b>2017</b> ,		2
9	Impact of adaptive carrier-sensing range on the performance of dense wireless networks <b>2017</b> ,		2
8	Spreading CdS Nanocrystals on GdBO <sub>3</sub> :Ce,Tb Substrates for Enhancing Their Photocatalytic Performance. <i>Catalysis Letters</i> , <b>2018</b> , 148, 523-530	2.8	2
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2	Growth of Well-Aligned MnO <sub>2</sub> Monocrystalline Nanowires Through a Coordination-Polymer-Precursor Route.. <i>ChemInform</i> , <b>2003</b> , 34, no		1
1	Self-Supported Three-Dimensional Quantum Dot Aerogels as a Promising Photocatalyst for CO <sub>2</sub> Reduction. <i>Chemistry of Materials</i> , <b>2022</b> , 34, 2687-2695	9.6	1