

Hui Huang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

202
papers

20,774
citations

60
h-index

142
g-index

208
ext. papers

24,158
ext. citations

10.1
avg. IF

7
L-index

#	Paper	IF	Citations
202	Carbon dots with chiral surface selectively inhibit the activity of laccase. <i>Applied Surface Science</i> , 2022 , 583, 152540	6.7	0
201	Carbon dots promote the carrier recombination in Poly (9-vinyl carbazole) to enhance its electroluminescence. <i>Applied Surface Science</i> , 2022 , 585, 152649	6.7	1
200	Porous direct Z-scheme heterostructures of S-deficient CoS/CdS hexagonal nanoplates for robust photocatalytic H ₂ generation. <i>CrystEngComm</i> , 2022 , 24, 404-416	3.3	1
199	Si-assisted N, P Co-doped room temperature phosphorescent carbonized polymer Dots: Information Encryption, graphic Anti-counterfeiting and biological imaging.. <i>Journal of Colloid and Interface Science</i> , 2022 , 609, 279-288	9.3	4
198	Converting water impurity in organic solvent into hydrogen and hydrogen peroxide by organic semiconductor photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2022 , 305, 121047	21.8	0
197	Carbon dots regulate the interface electron transfer and catalytic kinetics of Pt-based alloys catalyst for highly efficient hydrogen oxidation. <i>Journal of Energy Chemistry</i> , 2022 , 66, 61-67	12	11
196	Bifunctional template-mediated synthesis of porous ordered g-C ₃ N ₄ decorated with potassium and cyano groups for effective photocatalytic H ₂ O ₂ evolution from dual-electron O ₂ reduction. <i>Chemical Engineering Journal</i> , 2022 , 427, 132032	14.7	10
195	Carbon dots with different energy levels regulate the activity of metal-free catalyst for hydrogen peroxide photoproduction.. <i>Journal of Colloid and Interface Science</i> , 2022 , 616, 769-780	9.3	3
194	Transient photovoltage study of the kinetics and synergy of electron/hole co-extraction in MoS ₂ /Ag-In-Zn-S/carbon dot photocatalysts for promoted hydrogen production. <i>Chemical Engineering Journal</i> , 2022 , 439, 135759	14.7	1
193	Hydrogen peroxide-impregnated supramolecular precursors synthesize mesoporous-rich ant nest-like filled tubular g-C ₃ N ₄ for effective photocatalytic removal of pollutants. <i>Chemical Engineering Journal</i> , 2022 , 137332	14.7	1
192	Organic Semiconductor/Carbon Dot Composites for Highly Efficient Hydrogen and Hydrogen Peroxide Coproduction from Water Photosplitting. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	4
191	Derived Carbon Dots and Their Heat Stress Tolerance of Italian Lettuce by Promoting Growth and Enhancing Antioxidant Enzyme Activity. <i>ACS Omega</i> , 2021 , 6, 32262-32269	3.9	1
190	Rational construction of hierarchical porous FeP nanorod arrays encapsulated in polypyrrole for efficient and durable hydrogen evolution reaction. <i>Chemical Engineering Journal</i> , 2021 , 133643	14.7	3
189	Water-soluble carbon dots derived from curcumin and citric acid with enhanced broad-spectrum antibacterial and antibiofilm activity. <i>Materials Today Communications</i> , 2021 , 26, 102000	2.5	7
188	Simple Semiempirical Method for the Location Determination of HOMO and LUMO of Carbon Dots. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 7451-7457	3.8	13
187	Carbon-Dot-Based White-Light-Emitting Diodes with Adjustable Correlated Color Temperature Guided by Machine Learning. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 12585-12590	16.4	20
186	Charge storage of carbon dot enhances photo-production of H ₂ and H ₂ O ₂ over Ni ₂ P/carbon dot catalyst under normal pressure. <i>Chemical Engineering Journal</i> , 2021 , 409, 128184	14.7	23

185	Effective Low-Temperature Methanol Aqueous Phase Reforming with Metal-Free Carbon Dots/CN Composites. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 24702-24709	9.5	3
184	Polyaniline/Carbon Dots Composite as a Highly Efficient Metal-Free Dual-Functional Photoassisted Electrocatalyst for Overall Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 24814-24823	9.5	16
183	Nitrogen-doped carbon dots for wash-free imaging of nucleolus orientation. <i>Mikrochimica Acta</i> , 2021 , 188, 183	5.8	5
182	Hydroxyl-terminated carbon dots for efficient conversion of cyclohexane to adipic acid. <i>Journal of Colloid and Interface Science</i> , 2021 , 591, 281-289	9.3	7
181	Carbon dots with positive surface charge from tartaric acid and m-aminophenol for selective killing of Gram-positive bacteria. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 125-130	7.3	19
180	Interface photo-charge kinetics regulation by carbon dots for efficient hydrogen peroxide production. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 515-522	13	22
179	Chiral Control of Carbon Dots via Surface Modification for Tuning the Enzymatic Activity of Glucose Oxidase. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 5877-5886	9.5	14
178	ZIF/Co-CN with enhanced electrocatalytic reduction of carbon dioxide activity by the photoactivation process. <i>Nanoscale</i> , 2021 , 13, 14089-14095	7.7	1
177	A metal-free photocatalyst for highly efficient hydrogen peroxide photoproduction in real seawater. <i>Nature Communications</i> , 2021 , 12, 483	17.4	48
176	Carbon dots up-regulate heme oxygenase-1 expression towards acute lung injury therapy. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 9005-9011	7.3	2
175	Ultra-Bright and Stable Pure Blue Light-Emitting Diode from O, N Co-Doped Carbon Dots. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2000412	8.3	22
174	Pyrrolic nitrogen dominated the carbon dot mimic oxidase activity. <i>Carbon</i> , 2021 , 179, 692-700	10.4	10
173	Ag-In-Zn-S Quantum Dot-Dominated Interface Kinetics in Ag-In-Zn-S/NiFe LDH Composites toward Efficient Photoassisted Electrocatalytic Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 42125-42137	9.5	7
172	Carbon-dots-mediated highly efficient hole transfer in I-III-VI quantum dots for photocatalytic hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2021 , 292, 120154	21.8	18
171	H ₂ O ₂ production and in situ sterilization over a ZnO/g-C ₃ N ₄ heterojunction photocatalyst. <i>Chemical Engineering Journal</i> , 2021 , 420, 129722	14.7	22
170	Carbon dots/PtW ₆ O ₂₄ composite as efficient and stable electrocatalyst for hydrogen oxidation reaction in PEMFCs. <i>Chemical Engineering Journal</i> , 2021 , 426, 130709	14.7	5
169	Carbon dots modified Ti ₃ C ₂ T _x -based fibrous supercapacitor with photo-enhanced capacitance. <i>Nano Research</i> , 2021 , 14, 3886	10	7
168	Edible and highly biocompatible nanodots from natural plants for the treatment of stress gastric ulcers. <i>Nanoscale</i> , 2021 , 13, 6809-6818	7.7	1

167	A Bright and Stable Violet Carbon Dot Light-Emitting Diode. <i>Advanced Optical Materials</i> , 2020 , 8, 2000239-1	16
166	One-step synthesis of MnOx/g-C3N4 nanocomposites for enhancing the visible light photoelectrochemical oxidation performance. <i>Chemical Engineering Journal</i> , 2020 , 399, 125825	14.7 15
165	Metal-Free Catalyst with Large Carbon Defects for Efficient Direct Overall Water Splitting in Air at Room Pressure. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 30280-30288	9.5 15
164	Advances in carbon dots: from the perspective of traditional quantum dots. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 1586-1613	7.8 94
163	A 4e ⁻ -cascaded pathway for highly efficient production of H ₂ and H ₂ O ₂ from water photo-splitting at normal pressure. <i>Applied Catalysis B: Environmental</i> , 2020 , 270, 118875	21.8 37
162	Dodecahedron ZIF-67 anchoring ZnCdS particles for photocatalytic hydrogen evolution. <i>Molecular Catalysis</i> , 2020 , 485, 110832	3.3 37
161	Robust carbon-dot-based evaporator with an enlarged evaporation area for efficient solar steam generation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 14566-14573	13 24
160	Efficient production of H ₂ O ₂ via two-channel pathway over ZIF-8/C ₃ N ₄ composite photocatalyst without any sacrificial agent. <i>Applied Catalysis B: Environmental</i> , 2020 , 278, 119289	21.8 49
159	Selective inactivation of Gram-negative bacteria by carbon dots derived from natural biomass: <i>Artemisia argyi</i> leaves. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 2666-2672	7.3 17
158	Gram-Scale Synthesis of 41% Efficient Single-Component White-Light-Emissive Carbonized Polymer Dots with Hybrid Fluorescence/Phosphorescence for White Light-Emitting Diodes. <i>Advanced Science</i> , 2020 , 7, 1902688	13.6 58
157	Tree-inspired ultra-rapid steam generation and simultaneous energy harvesting under weak illumination. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 10260-10268	13 10
156	N-doped carbon dots derived from leaves with low toxicity via damaging cytomembrane for broad-spectrum antibacterial activity. <i>Materials Today Communications</i> , 2020 , 24, 101222	2.5 9
155	A function-switchable metal-free photocatalyst for the efficient and selective production of hydrogen and hydrogen peroxide. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11773-11780	13 19
154	Phosphorus-doped porous carbon nitride for efficient sole production of hydrogen peroxide via photocatalytic water splitting with a two-channel pathway. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3701-3707	13 48
153	Carbon Dots Enable Efficient Delivery of Functional DNA in Plants.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 8857-8864	4.1 10
152	Carbon dot-modified mesoporous carbon as a supercapacitor with enhanced light-assisted capacitance. <i>Nanoscale</i> , 2020 , 12, 17925-17930	7.7 11
151	Carbon Dots Derived from Citric Acid and Glutathione as a Highly Efficient Intracellular Reactive Oxygen Species Scavenger for Alleviating the Lipopolysaccharide-Induced Inflammation in Macrophages. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 41088-41095	9.5 26
150	Cu atomic clusters on N-doped porous carbon with tunable oxidation state for the highly-selective electroreduction of CO ₂ . <i>Materials Advances</i> , 2020 , 1, 2286-2292	3.3 1

149	Facile synthesis of ultrahigh fluorescence N,S-self-doped carbon nanodots and their multiple applications for HS sensing, bioimaging in live cells and zebrafish, and anti-counterfeiting. <i>Nanoscale</i> , 2020 , 12, 20482-20490	7.7	14
148	Carbon dots modified WO ₂ -Na ₂ WO ₃ composite as UV-Vis-NIR broad spectrum-driven photocatalyst for overall water splitting. <i>Catalysis Today</i> , 2020 , 340, 152-160	5.3	7
147	Strategy for Activating Room-Temperature Phosphorescence of Carbon Dots in Aqueous Environments. <i>Chemistry of Materials</i> , 2019 , 31, 7979-7986	9.6	61
146	Hofmann-like metal-organic-framework-derived Pt Fe/C/N-GC composites as efficient electrocatalysts for methanol oxidation.. <i>RSC Advances</i> , 2019 , 9, 26450-26455	3.7	5
145	Biotoxicity of degradable carbon dots towards microalgae <i>Chlorella vulgaris</i> . <i>Environmental Science: Nano</i> , 2019 , 6, 3316-3323	7.1	15
144	A novel fluorescence immunosensor based on Förster resonance energy transfer between nitrogen and sulfur co-doped carbon dot functionalized silica nanospheres and Au@Ag NPs. <i>New Journal of Chemistry</i> , 2019 , 43, 1424-1430	3.6	6
143	A di-functional and label-free carbon-based chem-nanosensor for real-time monitoring of pH fluctuation and quantitative determining of Curcumin. <i>Analytica Chimica Acta</i> , 2019 , 1057, 132-144	6.6	20
142	Highly Selective and Efficient Electroreduction of Carbon Dioxide to Carbon Monoxide with Phosphate Silver-Derived Coral-like Silver. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 3536-3543	8.3	26
141	Maltase Decorated by Chiral Carbon Dots with Inhibited Enzyme Activity for Glucose Level Control. <i>Small</i> , 2019 , 15, e1901512	11	27
140	Enhanced RuBisCO activity and promoted dicotyledons growth with degradable carbon dots. <i>Nano Research</i> , 2019 , 12, 1585-1593	10	42
139	Negatively Charged Carbon Nanodots with Bacteria Resistance Ability for High-Performance Antibiofilm Formation and Anticorrosion Coating Design. <i>Small</i> , 2019 , 15, e1900007	11	29
138	Carbon quantum dot-covered porous Ag with enhanced activity for selective electroreduction of CO ₂ to CO. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 1453-1460	6.8	17
137	Co/Co ₉ S ₈ nanoparticles coupled with N,S-doped graphene-based mixed-dimensional heterostructures as bifunctional electrocatalysts for the overall oxygen electrode. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 2558-2565	6.8	9
136	Efficient photocatalytic water splitting through titanium silicalite stabilized CoO nanodots. <i>Nanoscale</i> , 2019 , 11, 15984-15990	7.7	19
135	Carbon dots-Pt modified polyaniline nanosheet grown on carbon cloth as stable and high-efficient electrocatalyst for hydrogen evolution in pH-universal electrolyte. <i>Applied Catalysis B: Environmental</i> , 2019 , 257, 117905	21.8	37
134	2D/1D ZnCdS p-n heterogeneous junction enhanced with NiWO for efficient photocatalytic hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , 2019 , 554, 113-124	9.3	38
133	Photocatalytic Polymerization from Amino Acid to Protein by Carbon Dots at Room Temperature.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 5144-5153	4.1	12
132	Carbon-Supported Oxygen Vacancy-Rich Co ₃ O ₄ for Robust Photocatalytic H ₂ O ₂ Production via Coupled Water Oxidation and Oxygen Reduction Reaction. <i>ACS Applied Energy Materials</i> , 2019 , 2, 8737-8746	6.1	34

131	Extraction of High-Quality Quantum Dot Photocatalysts via Combination of Size Selection and Electrochemiluminescence. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 20043-20050	8.3	10
130	Cobalt oxyhydroxide and carbon dots modified by platinum as superior electrocatalyst for methanol oxidation. <i>Materials Chemistry and Physics</i> , 2019 , 225, 64-71	4.4	15
129	Ternary Os-Ag-Si electrocatalysts for hydrogen evolution are more efficient than Os-Au-Si. <i>Journal of Colloid and Interface Science</i> , 2019 , 539, 257-262	9.3	
128	Synergistic Cu@CoO _x core-cage structure on carbon layers as highly active and durable electrocatalysts for methanol oxidation. <i>Applied Catalysis B: Environmental</i> , 2019 , 244, 795-801	21.8	30
127	Construction of CDs/CdS photocatalysts for stable and efficient hydrogen production in water and seawater. <i>Applied Catalysis B: Environmental</i> , 2019 , 242, 178-185	21.8	100
126	All-solid-state Z-scheme system of NiO/CDs/BiVO ₄ for visible light-driven efficient overall water splitting. <i>Chemical Engineering Journal</i> , 2019 , 358, 134-142	14.7	53
125	CDs+ (Na ⁺) groups in non-doped carbon as active sites for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8955-8961	13	18
124	Carbon dots promote the growth and photosynthesis of mung bean sprouts. <i>Carbon</i> , 2018 , 136, 94-102	10.4	107
123	Investigation of Regeneration Kinetics of a Carbon-Dot-Sensitized Metal Oxide Semiconductor with Scanning Electrochemical Microscopy. <i>ACS Applied Energy Materials</i> , 2018 , 1, 1483-1488	6.1	5
122	Study on highly enhanced photocatalytic tetracycline degradation of type II AgI/CuBiO and Z-scheme AgBr/CuBiO heterojunction photocatalysts. <i>Journal of Hazardous Materials</i> , 2018 , 349, 111-118	12.8	136
121	A Novel CoO _{1.6} C _{0.7} Nanocomposite with Enhanced Photocatalytic Activity and Stability for Hydrogen Evolution Achieved by Carbon Dots. <i>ChemistrySelect</i> , 2018 , 3, 904-910	1.8	7
120	One-step synthesis of ZnS-N/C nanocomposites derived from Zn-based chiral metal-organic frameworks with highly efficient photocatalytic activity for the selective oxidation of cis-cyclooctene. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 723-731	6.8	8
119	Facile microwave synthesis of a Z-scheme imprinted ZnFe ₂ O ₄ /Ag/PEDOT with the specific recognition ability towards improving photocatalytic activity and selectivity for tetracycline. <i>Chemical Engineering Journal</i> , 2018 , 337, 228-241	14.7	187
118	Cascaded photo-potential in a carbon dot-hematite system driving overall water splitting under visible light. <i>Nanoscale</i> , 2018 , 10, 2454-2460	7.7	27
117	Chiral evolution of carbon dots and the tuning of laccase activity. <i>Nanoscale</i> , 2018 , 10, 2333-2340	7.7	37
116	Z-Scheme in a Co ₃ (PO ₄) ₂ /Fe ₂ O ₃ photocatalysis system for overall water splitting under visible light. <i>Catalysis Science and Technology</i> , 2018 , 8, 840-846	5.5	33
115	A g-C ₃ N ₄ based photoelectrochemical cell using O ₂ /H ₂ O redox couples. <i>Energy and Environmental Science</i> , 2018 , 11, 1841-1847	35.4	30
114	Cobalt phosphide/carbon dots composite as an efficient electrocatalyst for oxygen evolution reaction. <i>Dalton Transactions</i> , 2018 , 47, 5459-5464	4.3	40

113	Degradable Carbon Dots with Broad-Spectrum Antibacterial Activity. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 26936-26946	9.5	143
112	Carbon Dots Enhance the Nitrogen Fixation Activity of Azotobacter Chroococcum. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 16308-16314	9.5	30
111	Engineering a polyoxometalate-based metal organic framework with more exposed active edge sites of Ag for visible light-driven selective oxidation of cis-cyclooctene. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 2493-2500	6.8	10
110	Pristine Carbon Dots Boost the Growth of by Enhancing Photosynthesis.. <i>ACS Applied Bio Materials</i> , 2018 , 1, 894-902	4.1	21
109	Multifunctional carbon dot for lifetime thermal sensing, nucleolus imaging and antialgal activity. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 5708-5717	7.3	20
108	Precise mono-Cu ion doping enhanced electrogenerated chemiluminescence from Cd-In-S supertetrahedral chalcogenide nanoclusters for dopamine detection. <i>Nanoscale</i> , 2018 , 10, 15932-15937	7.7	16
107	Impacts of Carbon Dots on Rice Plants: Boosting the Growth and Improving the Disease Resistance.. <i>ACS Applied Bio Materials</i> , 2018 , 1, 663-672	4.1	85
106	One-step hydrothermal synthesis of chiral carbon dots and their effects on mung bean plant growth. <i>Nanoscale</i> , 2018 , 10, 12734-12742	7.7	82
105	Enhanced Activity for CO ₂ Electroreduction on a Highly Active and Stable Ternary Au-CDots-C ₃ N ₄ Electrocatalyst. <i>ACS Catalysis</i> , 2018 , 8, 188-197	13.1	66
104	A nitrogen and boron co-doped metal-free carbon electrocatalyst for an efficient oxygen reduction reaction. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 2985-2991	6.8	23
103	Degradable Carbon Dots from Cigarette Smoking with Broad-Spectrum Antimicrobial Activities against Drug-Resistant Bacteria.. <i>ACS Applied Bio Materials</i> , 2018 , 1, 1871-1879	4.1	32
102	Matrix-Free and Highly Efficient Room-Temperature Phosphorescence of Nitrogen-Doped Carbon Dots. <i>Langmuir</i> , 2018 , 34, 12845-12852	4	45
101	Photocatalytic H ₂ O ₂ and H ₂ Generation from Living <i>Chlorella vulgaris</i> and Carbon Micro Particle Comodified g-C ₃ N ₄ . <i>Advanced Energy Materials</i> , 2018 , 8, 1802525	21.8	35
100	Carbon Defect-Induced Reversible Carbon-Oxygen Interfaces for Efficient Oxygen Reduction. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 39735-39744	9.5	33
99	Defects induced efficient overall water splitting on a carbon-based metal-free photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 166-174	21.8	34
98	High-performance NiO/g-C ₃ N ₄ composites for visible-light-driven photocatalytic overall water splitting. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 1646-1652	6.8	58
97	Strong coupling effect at the interface of cobalt phosphate-carbon dots boost photocatalytic water splitting. <i>Journal of Colloid and Interface Science</i> , 2018 , 530, 256-263	9.3	29
96	High-yield fabrication of TiCT MXene quantum dots and their electrochemiluminescence behavior. <i>Nanoscale</i> , 2018 , 10, 14000-14004	7.7	56

95	Control Strategy on Two-/Four-Electron Pathway of Water Splitting by Multidoped Carbon Based Catalysts. <i>ACS Catalysis</i> , 2017 , 7, 1637-1645	13.1	50
94	Carbon dots as solid-state electron mediator for BiVO ₄ /CDs/CdS Z-scheme photocatalyst working under visible light. <i>Applied Catalysis B: Environmental</i> , 2017 , 206, 501-509	21.8	221
93	C N-A 2D Crystalline, Hole-Free, Tunable-Narrow-Bandgap Semiconductor with Ferromagnetic Properties. <i>Advanced Materials</i> , 2017 , 29, 1605625	24	256
92	N,S co-doped carbon dots as a stable bio-imaging probe for detection of intracellular temperature and tetracycline. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 3293-3299	7.3	83
91	Fluorescent carbon dots with tunable negative charges for bio-imaging in bacterial viability assessment. <i>Carbon</i> , 2017 , 120, 95-102	10.4	43
90	High Efficiency Photocatalytic Water Splitting Using 2D Fe ₂ O ₃ /g-C ₃ N ₄ Z-Scheme Catalysts. <i>Advanced Energy Materials</i> , 2017 , 7, 1700025	21.8	501
89	Biocompatible Chitosan-Carbon Dot Hybrid Nanogels for NIR-Imaging-Guided Synergistic Photothermal-Chemo Therapy. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 18639-18649	9.5	97
88	Pyridine derivative-induced fluorescence in multifunctional modified carbon dots and their application in thermometers. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 3964-3969	7.3	15
87	Preparation of g-C ₃ N ₄ nanorod/InVO ₄ hollow sphere composite with enhanced visible-light photocatalytic activities. <i>Applied Catalysis B: Environmental</i> , 2017 , 213, 127-135	21.8	51
86	Simultaneous enzymatic activity modulation and rapid determination of enzyme kinetics by highly crystalline graphite dots. <i>Nanoscale</i> , 2017 , 9, 8410-8417	7.7	10
85	Carbon Dots as Fillers Inducing Healing/Self-Healing and Anticorrosion Properties in Polymers. <i>Advanced Materials</i> , 2017 , 29, 1701399	24	104
84	Carbon dots enhance the stability of CdS for visible-light-driven overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2017 , 216, 114-121	21.8	161
83	New Insight of Water-Splitting Photocatalyst: HO-Resistance Poisoning and Photothermal Deactivation in Sub-micrometer CoO Octahedrons. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 20585-20593	9.5	39
82	A Pt-CoO-CD electrocatalyst with enhanced electrocatalytic performance and resistance to CO poisoning achieved by carbon dots and CoO for direct methanol fuel cells. <i>Nanoscale</i> , 2017 , 9, 5467-5474	7.7	53
81	Nitrogen and sulfur co-doped chiral carbon quantum dots with independent photoluminescence and chirality. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 946-953	6.8	33
80	Mesoporous nitrogen, sulfur co-doped carbon dots/CoS hybrid as an efficient electrocatalyst for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 2717-2723	13	89
79	Carbon dots anchored on octahedral CoO as a stable visible-light-responsive composite photocatalyst for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19800-19807	13	74
78	Hydroxyl-Group-Dominated Graphite Dots Reshape Laser Desorption/Ionization Mass Spectrometry for Small Biomolecular Analysis and Imaging. <i>ACS Nano</i> , 2017 , 11, 9500-9513	16.7	59

77	One-step synthesis of CoO/g-C ₃ N ₄ composites by thermal decomposition for overall water splitting without sacrificial reagents. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 1691-1696	6.8	41
76	Fabrication of a CuBi ₂ O ₄ /g-C ₃ N ₄ p-n heterojunction with enhanced visible light photocatalytic efficiency toward tetracycline degradation. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 1714-1720	6.8	59
75	A CoO-CDots-CN three component electrocatalyst design concept for efficient and tunable CO reduction to syngas. <i>Nature Communications</i> , 2017 , 8, 1828	17.4	102
74	Oxygen Containing Functional Groups Dominate the Electrochemiluminescence of Pristine Carbon Dots. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 27546-27554	3.8	21
73	Advances, challenges and promises of carbon dots. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 1963-1986	6.8	88
72	Carbon dots decorated the exposing high-reactive (111) facets CoO octahedrons with enhanced photocatalytic activity and stability for tetracycline degradation under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2017 , 219, 36-44	21.8	73
71	Facile fabrication of a CoO/g-C ₃ N ₄ p-n heterojunction with enhanced photocatalytic activity and stability for tetracycline degradation under visible light. <i>Catalysis Science and Technology</i> , 2017 , 7, 3325-3331	5.5	150
70	Fluorescent carbon dots with highly negative charges as a sensitive probe for real-time monitoring of bacterial viability. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 6008-6015	7.3	35
69	Carbon dots/g-C ₃ N ₄ /ZnO nanocomposite as efficient visible-light driven photocatalyst for tetracycline total degradation. <i>Separation and Purification Technology</i> , 2017 , 173, 295-303	8.3	122
68	Near-infrared light photocatalytic ability for degradation of tetracycline using carbon dots modified Ag/AgBr nanocomposites. <i>Separation and Purification Technology</i> , 2017 , 174, 75-83	8.3	48
67	Cu-CDots nanocorals as electrocatalyst for highly efficient CO reduction to formate. <i>Nanoscale</i> , 2017 , 9, 298-304	7.7	39
66	Carbon dot and BiVO quantum dot composites for overall water splitting via a two-electron pathway. <i>Nanoscale</i> , 2016 , 8, 17314-17321	7.7	109
65	Third-order nonlinear optical properties of carboxyl group dominant carbon nanodots. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 8490-8495	7.1	24
64	Mediator-free Z-scheme photocatalytic system based on ultrathin CdS nanosheets for efficient hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 13626-13635	13	60
63	Air activation by a metal-free photocatalyst for totally-green hydrocarbon selective oxidation. <i>Catalysis Science and Technology</i> , 2016 , 6, 7252-7258	5.5	27
62	Nitrogen, phosphorus co-doped carbon dots/CoS ₂ hybrid for enhanced electrocatalytic hydrogen evolution reaction. <i>RSC Advances</i> , 2016 , 6, 66893-66899	3.7	19
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52	Low temperature synthesis of phosphorous and nitrogen co-doped yellow fluorescent carbon dots for sensing and bioimaging. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 6813-6819	7.3	118
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49	A practical and highly sensitive C ₃ N ₄ -TYR fluorescent probe for convenient detection of dopamine. <i>Nanoscale</i> , 2015 , 7, 12068-75	7.7	26
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47	Fluorescent porous carbon nanocapsules for two-photon imaging, NIR/pH dual-responsive drug carrier, and photothermal therapy. <i>Biomaterials</i> , 2015 , 53, 117-26	15.6	95
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45	Non-metal single/dual doped carbon quantum dots: a general flame synthetic method and electro-catalytic properties. <i>Nanoscale</i> , 2015 , 7, 5955-62	7.7	97
44	Reducing the charging voltage of a LiO ₂ battery to 1.9 V by incorporating a photocatalyst. <i>Energy and Environmental Science</i> , 2015 , 8, 2664-2667	35.4	101
43	Fluorescent N-Doped Carbon Dots as in Vitro and in Vivo Nanothermometer. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 27324-30	9.5	95
42	Carbon quantum dot/Cu _x S nanocomposites towards highly efficient lubrication and metal wear repair. <i>Nanoscale</i> , 2015 , 7, 11321-7	7.7	57

41	Carbon dots from PEG for highly sensitive detection of levodopa. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 2378-2387	7.3	41
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39	Silver modified carbon quantum dots for solvent-free selective oxidation of cyclohexane. <i>New Journal of Chemistry</i> , 2015 , 39, 2815-2821	3.6	30
38	Coupling surface plasmon resonance of gold nanoparticles with slow-photon-effect of TiO ₂ photonic crystals for synergistically enhanced photoelectrochemical water splitting. <i>Energy and Environmental Science</i> , 2014 , 7, 1409	35.4	265
37	One-step conversion from metal-organic frameworks to Co ₃ O ₄ @N-doped carbon nanocomposites towards highly efficient oxygen reduction catalysts. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 8184	13	121
36	Carbon quantum dots with photo-generated proton property as efficient visible light controlled acid catalyst. <i>Nanoscale</i> , 2014 , 6, 867-73	7.7	88
35	Phosphorus-doped macroporous carbon spheres for high efficiency selective oxidation of cyclooctene by air. <i>RSC Advances</i> , 2014 , 4, 22419	3.7	10
34	Porous cobalt, nitrogen-codoped carbon nanostructures from carbon quantum dots and VB12 and their catalytic properties for oxygen reduction. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 25350-7	3.6	47
33	Carbon dots for photoswitching enzyme catalytic activity. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 5652-5658	2.8	28
32	Quantitative and real-time effects of carbon quantum dots on single living HeLa cell membrane permeability. <i>Nanoscale</i> , 2014 , 6, 5116-20	7.7	55
31	A nickel-modified polyoxometalate towards a highly efficient catalyst for selective oxidation of hydrocarbons. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 12686	13	20
30	Carbon Quantum Dot/Silver Nanoparticle/Polyoxometalate Composites as Photocatalysts for Overall Water Splitting in Visible Light. <i>ChemCatChem</i> , 2014 , 6, 2634-2641	5.2	62
29	A graphene quantum dot photodynamic therapy agent with high singlet oxygen generation. <i>Nature Communications</i> , 2014 , 5, 4596	17.4	946
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27	Carbon quantum dot/NiFe layered double-hydroxide composite as a highly efficient electrocatalyst for water oxidation. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 7918-25	9.5	382
26	Tunable ternary (N, P, B)-doped porous nanocarbons and their catalytic properties for oxygen reduction reaction. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 22297-304	9.5	105
25	Near-infrared light controlled photocatalytic activity of carbon quantum dots for highly selective oxidation reaction. <i>Nanoscale</i> , 2013 , 5, 3289-97	7.7	247
24	Transition metal-directed assembly of diverse coordination polymers based on multifunctional ligand 2,4-dichloro-5-sulfamoylbenzoic acid. <i>CrystEngComm</i> , 2013 , 15, 8483	3.3	3

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22	Homochiral metal-organic porous materials for enantioselective recognition and electrocatalysis. <i>CrystEngComm</i> , 2013 , 15, 3288	3.3	13
21	Carbon quantum dots enhance the photocatalytic performance of BiVO ₄ with different exposed facets. <i>Dalton Transactions</i> , 2013 , 42, 6285-9	4.3	146
20	Bioinspired photoelectric conversion system based on carbon-quantum-dot-doped dye-semiconductor complex. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 5080-4	9.5	92
19	Role of Pt-pyridinic nitrogen sites in methanol oxidation on Pt/polypyrrole-carbon black Catalyst. <i>Journal of Power Sources</i> , 2012 , 197, 44-49	8.9	41
18	One-step ultrasonic synthesis of fluorescent N-doped carbon dots from glucose and their visible-light sensitive photocatalytic ability. <i>New Journal of Chemistry</i> , 2012 , 36, 861	3.6	414
17	Carbon nanodots: synthesis, properties and applications. <i>Journal of Materials Chemistry</i> , 2012 , 22, 24230		2021
16	Large scale electrochemical synthesis of high quality carbon nanodots and their photocatalytic property. <i>Dalton Transactions</i> , 2012 , 41, 9526-31	4.3	567
15	Carbon quantum dots/Ag ₃ PO ₄ complex photocatalysts with enhanced photocatalytic activity and stability under visible light. <i>Journal of Materials Chemistry</i> , 2012 , 22, 10501		614
14	Tunable synthesis of metal-graphene complex nanostructures and their catalytic ability for solvent-free cyclohexene oxidation in air. <i>Nanoscale</i> , 2012 , 4, 4964-7	7.7	37
13	Carbon quantum dots/Cu ₂ O composites with protruding nanostructures and their highly efficient (near) infrared photocatalytic behavior. <i>Journal of Materials Chemistry</i> , 2012 , 22, 17470		292
12	Fe ₂ O ₃ /carbon quantum dots complex photocatalysts and their enhanced photocatalytic activity under visible light. <i>Dalton Transactions</i> , 2011 , 40, 10822-5	4.3	266
11	Fluorescent carbon nanoparticles: electrochemical synthesis and their pH sensitive photoluminescence properties. <i>New Journal of Chemistry</i> , 2011 , 35, 2666	3.6	107
10	CuBi ₂ O ₄ single crystal nanorods prepared by hydrothermal method: Growth mechanism and optical properties. <i>Materials Research Bulletin</i> , 2011 , 46, 1443-1450	5.1	45
9	One-step ultrasonic synthesis of water-soluble carbon nanoparticles with excellent photoluminescent properties. <i>Carbon</i> , 2011 , 49, 605-609	10.4	688
8	Water-Soluble Fluorescent Carbon Quantum Dots and Photocatalyst Design. <i>Angewandte Chemie</i> , 2010 , 122, 4532-4536	3.6	230
7	Water-soluble fluorescent carbon quantum dots and photocatalyst design. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 4430-4	16.4	1947
6	Replacing Ru complex with carbon dots over MOF-derived Co ₃ O ₄ /In ₂ O ₃ catalyst for efficient solar-driven CO ₂ reduction. <i>Journal of Materials Chemistry A</i> ,	13	4

5	A metal free catalyst for efficient and stable one-step photocatalytic production of pure hydrogen peroxide. <i>Catalysis Science and Technology</i> ,	5.5	1
4	Photo-charge regulation of metal-free photocatalyst by carbon dots for efficient and stable hydrogen peroxide production. <i>Journal of Materials Chemistry A</i> ,	13	8
3	In-situ transient photovoltage study on interface electron transfer regulation of carbon dots/NiCo ₂ O ₄ photocatalyst for the enhanced overall water splitting activity. <i>Nano Research</i> ,1	10	12
2	Highly efficient metal-free catalyst from cellulose for hydrogen peroxide photoproduction instructed by machine learning and transient photovoltage technology. <i>Nano Research</i> ,1	10	2
1	Amino Modified Carbon Dots with Electron Sink Effect Increase Interface Charge Transfer Rate of Cu-Based Electrocatalyst to Enhance the CO ₂ Conversion Selectivity to C ₂ H ₄ . <i>Advanced Functional Materials</i> ,2113335	15.6	8