

Hui Huang

List of Publications by Citations

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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	Water splitting. Metal-free efficient photocatalyst for stable visible water splitting via a two-electron pathway. <i>Science</i> , 2015 , 347, 970-4	33.3	3101
201	Carbon nanodots: synthesis, properties and applications. <i>Journal of Materials Chemistry</i> , 2012 , 22, 24230		2021
200	Water-soluble fluorescent carbon quantum dots and photocatalyst design. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 4430-4	16.4	1947
199	A graphene quantum dot photodynamic therapy agent with high singlet oxygen generation. <i>Nature Communications</i> , 2014 , 5, 4596	17.4	946
198	One-step ultrasonic synthesis of water-soluble carbon nanoparticles with excellent photoluminescent properties. <i>Carbon</i> , 2011 , 49, 605-609	10.4	688
197	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
196	Large scale electrochemical synthesis of high quality carbon nanodots and their photocatalytic property. <i>Dalton Transactions</i> , 2012 , 41, 9526-31	4.3	567
195	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
194	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
193	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
192	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
191	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
190	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
189	C N-A 2D Crystalline, Hole-Free, Tunable-Narrow-Bandgap Semiconductor with Ferromagnetic Properties. <i>Advanced Materials</i> , 2017 , 29, 1605625	24	256
188	Carbon quantum dot sensitized TiO ₂ nanotube arrays for photoelectrochemical hydrogen generation under visible light. <i>Nanoscale</i> , 2013 , 5, 2274-8	7.7	256
187	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
186	Water-Soluble Fluorescent Carbon Quantum Dots and Photocatalyst Design. <i>Angewandte Chemie</i> , 2010 , 122, 4532-4536	3.6	230

185	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
184	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
183	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
182	Bioinspired Bifunctional Membrane for Efficient Clean Water Generation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 772-9	9.5	152
181	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
180	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
179	Degradable Carbon Dots with Broad-Spectrum Antibacterial Activity. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 26936-26946	9.5	143
178	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
177	Fluorescent N-doped carbon dots for both cellular imaging and highly-sensitive catechol detection. <i>Carbon</i> , 2015 , 91, 66-75	10.4	122
176	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
175	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
174	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
173	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
172	Carbon dots promote the growth and photosynthesis of mung bean sprouts. <i>Carbon</i> , 2018 , 136, 94-102	10.4	107
171	Fluorescent carbon nanoparticles: electrochemical synthesis and their pH sensitive photoluminescence properties. <i>New Journal of Chemistry</i> , 2011 , 35, 2666	3.6	107
170	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
169	Carbon Dots as Fillers Inducing Healing/Self-Healing and Anticorrosion Properties in Polymers. <i>Advanced Materials</i> , 2017 , 29, 1701399	24	104
168	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

167	Reducing the charging voltage of a LiD2 battery to 1.9 V by incorporating a photocatalyst. <i>Energy and Environmental Science</i> , 2015 , 8, 2664-2667	35.4	101
166	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
165	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
164	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
163	Immobilization of Carbon Dots in Molecularly Imprinted Microgels for Optical Sensing of Glucose at Physiological pH. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 15735-45	9.5	96
162	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
161	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
160	Advances in carbon dots: from the perspective of traditional quantum dots. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 1586-1613	7.8	94
159	Carbon quantum dots modified MoS2 with visible-light-induced high hydrogen evolution catalytic ability. <i>Carbon</i> , 2016 , 99, 599-606	10.4	93
158	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
157	Intrinsic "Vacancy Point Defect" Induced Electrochemiluminescence from Coreless Supertetrahedral Chalcogenide Nanocluster. <i>Journal of the American Chemical Society</i> , 2016 , 138, 7718-24	16.4	90
156	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
155	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
154	Advances, challenges and promises of carbon dots. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 1963-1986	6.8	88
153	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
152	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
151	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
150	Tuning laccase catalytic activity with phosphate functionalized carbon dots by visible light. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 10004-12	9.5	79

149	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
148	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
147	Carbon Nanodot Surface Modifications Initiate Highly Efficient, Stable Catalysts for Both Oxygen Evolution and Reduction Reactions. <i>Advanced Energy Materials</i> , 2016 , 6, 1502039	21.8	73
146	A nickel nanoparticle/carbon quantum dot hybrid as an efficient electrocatalyst for hydrogen evolution under alkaline conditions. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 18598-18604	13	71
145	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
144	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
143	Strategy for Activating Room-Temperature Phosphorescence of Carbon Dots in Aqueous Environments. <i>Chemistry of Materials</i> , 2019 , 31, 7979-7986	9.6	61
142	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
141	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
140	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
139	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
138	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
137	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
136	High-yield fabrication of TiCT MXene quantum dots and their electrochemiluminescence behavior. <i>Nanoscale</i> , 2018 , 10, 14000-14004	7.7	56
135	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
134	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
133	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
132	One-step synthesis of chiral carbon quantum dots and their enantioselective recognition. <i>RSC Advances</i> , 2016 , 6, 59956-59960	3.7	52

131	High-Safety and Low-Cost Photoassisted Chargeable Aqueous Sodium-Ion Batteries with 90% Input Electric Energy Savings. <i>Advanced Energy Materials</i> , 2016 , 6, 1600632	21.8	52
130	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
129	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
128	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
127	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
126	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
125	A metal-free photocatalyst for highly efficient hydrogen peroxide photoproduction in real seawater. <i>Nature Communications</i> , 2021 , 12, 483	17.4	48
124	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
123	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
122	Matrix-Free and Highly Efficient Room-Temperature Phosphorescence of Nitrogen-Doped Carbon Dots. <i>Langmuir</i> , 2018 , 34, 12845-12852	4	45
121	Fluorescent carbon dots with tunable negative charges for bio-imaging in bacterial viability assessment. <i>Carbon</i> , 2017 , 120, 95-102	10.4	43
120	Template-free fabrication of mesoporous carbons from carbon quantum dots and their catalytic application to the selective oxidation of hydrocarbons. <i>Nanoscale</i> , 2014 , 6, 5831-7	7.7	43
119	Enhanced RuBisCO activity and promoted dicotyledons growth with degradable carbon dots. <i>Nano Research</i> , 2019 , 12, 1585-1593	10	42
118	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
117	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
116	Carbon dots from PEG for highly sensitive detection of levodopa. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 2378-2387	7.3	41
115	Cobalt phosphide/carbon dots composite as an efficient electrocatalyst for oxygen evolution reaction. <i>Dalton Transactions</i> , 2018 , 47, 5459-5464	4.3	40
114	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, 20583-20593	9.5	39

113	Cu-CDots nanocorals as electrocatalyst for highly efficient CO reduction to formate. <i>Nanoscale</i> , 2017 , 9, 298-304	7.7	39
112	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
111	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
110	Dodecahedron ZIF-67 anchoring ZnCdS particles for photocatalytic hydrogen evolution. <i>Molecular Catalysis</i> , 2020 , 485, 110832	3.3	37
109	Chiral evolution of carbon dots and the tuning of laccase activity. <i>Nanoscale</i> , 2018 , 10, 2333-2340	7.7	37
108	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
107	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
106	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
105	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
104	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
103	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
102	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
101	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
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	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
98	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
97	Carbon Dots Enhance the Nitrogen Fixation Activity of <i>Azotobacter Chroococcum</i> . <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 16308-16314	9.5	30
96	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

95	Synergistic Cu@CoOx 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
94	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
93	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
92	Carbon dots for photoswitching enzyme catalytic activity. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 5652-5658	7.5	28
91	Maltase Decorated by Chiral Carbon Dots with Inhibited Enzyme Activity for Glucose Level Control. <i>Small</i> , 2019 , 15, e1901512	11	27
90	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
89	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
88	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
87	A practical and highly sensitive C3N4-TYR fluorescent probe for convenient detection of dopamine. <i>Nanoscale</i> , 2015 , 7, 12068-75	7.7	26
86	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
85	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
84	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
83	Charge storage of carbon dot enhances photo-production of H2 and H2O2 over Ni2P/carbon dot catalyst under normal pressure. <i>Chemical Engineering Journal</i> , 2021 , 409, 128184	14.7	23
82	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
81	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
80	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
79	H2O2 production and in situ sterilization over a ZnO/g-C3N4 heterojunction photocatalyst. <i>Chemical Engineering Journal</i> , 2021 , 420, 129722	14.7	22
78	Pristine Carbon Dots Boost the Growth of by Enhancing Photosynthesis.. <i>ACS Applied Bio Materials</i> , 2018 , 1, 894-902	4.1	21

77	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
76	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
75	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
74	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
73	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
72	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
71	Efficient photocatalytic water splitting through titanium silicalite stabilized CoO nanodots. <i>Nanoscale</i> , 2019 , 11, 15984-15990	7.7	19
70	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
69	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
68	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
67	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
66	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
65	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
64	N-Doped carbon dot with surface dominant non-linear optical properties. <i>RSC Advances</i> , 2016 , 6, 95476-95482	3.5	17
63	A Bright and Stable Violet Carbon Dot Light-Emitting Diode. <i>Advanced Optical Materials</i> , 2020 , 8, 2000239	39.1	16
62	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
61	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
60	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

59	Biotoxicity of degradable carbon dots towards microalgae <i>Chlorella vulgaris</i> . <i>Environmental Science: Nano</i> , 2019 , 6, 3316-3323	7.1	15
58	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
57	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
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39	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
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