

Zhenghui Kang

List of Publications by Year in descending order

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308
papers

31,703
citations

6254

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4774

169
g-index

314
all docs

314
docs citations

314
times ranked

25224
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | 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. Nano Research, 2022, 15, 1786-1795. | 10.4 | 41 |
| 2 | Carbon dots mediated charge sinking effect for boosting hydrogen evolution in Cu-In-Zn-S QDs/MoS ₂ photocatalysts. Applied Catalysis B: Environmental, 2022, 301, 120755. | 20.2 | 63 |
| 3 | Carbon dots dominated photoelectric surface in titanium dioxide nanotube/nitrogen-doped carbon dot/gold nanocomposites for improved photoelectrochemical water splitting. Journal of Colloid and Interface Science, 2022, 606, 1274-1283. | 9.4 | 14 |
| 4 | Carbon dots regulate the interface electron transfer and catalytic kinetics of Pt-based alloys catalyst for highly efficient hydrogen oxidation. Journal of Energy Chemistry, 2022, 66, 61-67. | 12.9 | 45 |
| 5 | All-in-one photocatalysis device for one-step high concentration H ₂ O ₂ photoproduction. Chemical Engineering Journal, 2022, 427, 131972. | 12.7 | 10 |
| 6 | Highly efficient CoNiP nanoboxes on graphene oxide for the hydrolysis of ammonia borane. Chemical Engineering Journal, 2022, 428, 131219. | 12.7 | 35 |
| 7 | A WO _x mediated interface boosts the activity and stability of Pt-catalyst for alkaline water splitting. Chemical Engineering Journal, 2022, 431, 133287. | 12.7 | 14 |
| 8 | Real-time monitoring the interfacial dynamic processes at model cell membranes: Taking cell penetrating peptide TAT as an example. Journal of Colloid and Interface Science, 2022, 609, 707-717. | 9.4 | 9 |
| 9 | Carbon dots enhance the interface electron transfer and photoelectrochemical kinetics in TiO ₂ photoanode. Applied Catalysis B: Environmental, 2022, 304, 120983. | 20.2 | 55 |
| 10 | Rh/RhO _x nanosheets as pH-universal bifunctional catalysts for hydrazine oxidation and hydrogen evolution reactions. Journal of Materials Chemistry A, 2022, 10, 1891-1898. | 10.3 | 25 |
| 11 | Carbon dots with tunable third-order nonlinear coefficient instructed by machine learning. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 426, 113729. | 3.9 | 4 |
| 12 | Converting water impurity in organic solvent into hydrogen and hydrogen peroxide by organic semiconductor photocatalyst. Applied Catalysis B: Environmental, 2022, 305, 121047. | 20.2 | 21 |
| 13 | Chiral carbon dots as a functional domain for tyrosinase Cu active site modulation via remote target interaction. Nanoscale, 2022, 14, 1202-1210. | 5.6 | 10 |
| 14 | An A-site management and oxygen-deficient regulation strategy with a perovskite oxide electrocatalyst for the oxygen evolution reaction. Journal of Materials Chemistry A, 2022, 10, 1336-1342. | 10.3 | 27 |
| 15 | 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. Journal of Materials Chemistry A, 2022, 10, 4279-4287. | 10.3 | 25 |
| 16 | Dynamic Interface with Enhanced Visible-Light Absorption and Electron Transfer for Direct Photoreduction of Flue Gas to Syngas. ACS Applied Materials & Interfaces, 2022, 14, 6476-6483. | 8.0 | 9 |
| 17 | Bifunctional Pd-O ₂ Center at the Liquid-Solid-Gas Triphase Interface for H ₂ O ₂ Photosynthesis. ACS Catalysis, 2022, 12, 2138-2149. | 11.2 | 58 |
| 18 | Real-time monitoring the staged interactions between cationic surfactants and a phospholipid bilayer membrane. Physical Chemistry Chemical Physics, 2022, 24, 5360-5370. | 2.8 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | The Pivotal Role of s ² , p ² , and f ¹ Block Metals in Water Electrolysis: Status Quo and Perspectives. <i>Advanced Materials</i> , 2022, 34, e2108432. | 21.0 | 55 |
| 20 | Carbon dots with chiral surface selectively inhibit the activity of laccase. <i>Applied Surface Science</i> , 2022, 583, 152540. | 6.1 | 9 |
| 21 | A metal-free catalyst for the efficient and stable one-step photocatalytic production of pure hydrogen peroxide. <i>Catalysis Science and Technology</i> , 2022, 12, 1837-1842. | 4.1 | 6 |
| 22 | Carbon dots promote the carrier recombination in Poly (9-vinyl carbazole) to enhance its electroluminescence. <i>Applied Surface Science</i> , 2022, 585, 152649. | 6.1 | 5 |
| 23 | Diverse catalytic behavior of a dye-based polymer metal-free catalyst for hydrogen peroxide photoproduction. <i>Materials Advances</i> , 2022, 3, 4243-4251. | 5.4 | 2 |
| 24 | Highly efficient metal-free catalyst from cellulose for hydrogen peroxide photoproduction instructed by machine learning and transient photovoltage technology. <i>Nano Research</i> , 2022, 15, 4000-4007. | 10.4 | 26 |
| 25 | High-throughput glycolytic inhibitor discovery targeting glioblastoma by graphite dots ² -assisted LDI mass spectrometry. <i>Science Advances</i> , 2022, 8, eabl4923. | 10.3 | 14 |
| 26 | Amino Modified Carbon Dots with Electron Sink Effect Increase Interface Charge Transfer Rate of Cu ²⁺ -Based Electrocatalyst to Enhance the CO ₂ Conversion Selectivity to C ₂ H ₄ . <i>Advanced Functional Materials</i> , 2022, 32, . | 14.9 | 29 |
| 27 | A comprehensive understanding on the roles of carbon dots in metallated graphyne based catalyst for photoinduced H ₂ O ₂ production. <i>Nano Today</i> , 2022, 43, 101428. | 11.9 | 25 |
| 28 | 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. | 9.4 | 18 |
| 29 | 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. | 12.7 | 20 |
| 30 | Fe-doped SnO ₂ nanosheet for ambient electrocatalytic nitrogen reduction reaction. <i>Nano Research</i> , 2022, 15, 6026-6035. | 10.4 | 24 |
| 31 | Layered double hydroxide nanosheets activate CsPbBr ₃ nanocrystals for enhanced photocatalytic CO ₂ reduction. <i>Nano Research</i> , 2022, 15, 5953-5961. | 10.4 | 22 |
| 32 | Enhanced supercapacitor performance of Bi ₂ O ₃ by Mn doping. <i>Journal of Alloys and Compounds</i> , 2022, 914, 165258. | 5.5 | 20 |
| 33 | Small-molecule catalyzed H ₂ O ₂ production via a phase-transfer photocatalytic process. <i>Applied Catalysis B: Environmental</i> , 2022, 314, 121499. | 20.2 | 15 |
| 34 | A biomass derived porous carbon materials with adjustable interfacial electron transmission dynamics as highly-efficient air cathode for Zn-Air battery. <i>Materials Research Bulletin</i> , 2022, 153, 111908. | 5.2 | 5 |
| 35 | Continuous Homogeneous Catalytic Oxidation of C-H Bonds by Metal-Free Carbon Dots with a Poly(ascorbic acid) Structure. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 26682-26689. | 8.0 | 7 |
| 36 | The Electron Transport Regulation in Carbon Dots/In ₂ O ₃ Electrocatalyst Enable 100% Selectivity for Oxygen Reduction to Hydrogen Peroxide. <i>Advanced Functional Materials</i> , 2022, 32, . | 14.9 | 27 |

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|----|--|------|-----------|
| 37 | A carbon dot-based metal-free photocatalyst enables O ₂ to serve as both a reactant and electron sink for enhancing H ₂ O ₂ photoproduction. Journal of Materials Chemistry A, 2022, 10, 15074-15079. | 10.3 | 10 |
| 38 | Highly crystalline core dominated the catalytic performance of carbon dot for cyclohexane to adipic acid reaction. Nano Research, 2022, 15, 7662-7669. | 10.4 | 5 |
| 39 | Ascorbic acid derived carbon dots promote circadian rhythm and contribute to attention deficit hyperactivity disorder. Nano Research, 2022, 15, 8247-8254. | 10.4 | 3 |
| 40 | Composition Engineering of Amorphous Nickel Boride Nanoarchitectures Enabling Highly Efficient Electrosynthesis of Hydrogen Peroxide. Advanced Materials, 2022, 34, . | 21.0 | 48 |
| 41 | Carbon dots with positive surface charge from tartaric acid and <i>m</i> -aminophenol for selective killing of Gram-positive bacteria. Journal of Materials Chemistry B, 2021, 9, 125-130. | 5.8 | 50 |
| 42 | Progress of electrochemical CO ₂ reduction reactions over polyoxometalate-based materials. Chinese Journal of Catalysis, 2021, 42, 920-937. | 14.0 | 32 |
| 43 | Imaging Cellular Aerobic Glycolysis using Carbon Dots for Early Warning of Tumorigenesis. Advanced Materials, 2021, 33, e2005096. | 21.0 | 48 |
| 44 | Interface photo-charge kinetics regulation by carbon dots for efficient hydrogen peroxide production. Journal of Materials Chemistry A, 2021, 9, 515-522. | 10.3 | 53 |
| 45 | Chiral Control of Carbon Dots via Surface Modification for Tuning the Enzymatic Activity of Glucose Oxidase. ACS Applied Materials & Interfaces, 2021, 13, 5877-5886. | 8.0 | 48 |
| 46 | ZIF/Co-C ₃ N ₄ with enhanced electrocatalytic reduction of carbon dioxide activity by the photoactivation process. Nanoscale, 2021, 13, 14089-14095. | 5.6 | 7 |
| 47 | A metal-free photocatalyst for highly efficient hydrogen peroxide photoproduction in real seawater. Nature Communications, 2021, 12, 483. | 12.8 | 193 |
| 48 | Carbon dots up-regulate heme oxygenase-1 expression towards acute lung injury therapy. Journal of Materials Chemistry B, 2021, 9, 9005-9011. | 5.8 | 8 |
| 49 | Ultra-Bright and Stable Pure Blue Light-Emitting Diode from O, N Co-Doped Carbon Dots. Laser and Photonics Reviews, 2021, 15, 2000412. | 8.7 | 54 |
| 50 | Photocatalyst for High-Performance H ₂ Production: Ga-Doped Polymeric Carbon Nitride. Angewandte Chemie, 2021, 133, 6189-6194. | 2.0 | 21 |
| 51 | Photocatalyst for High-Performance H ₂ Production: Ga-Doped Polymeric Carbon Nitride. Angewandte Chemie - International Edition, 2021, 60, 6124-6129. | 13.8 | 108 |
| 52 | Facile electron delivery from graphene template to ultrathin metal-organic layers for boosting CO ₂ photoreduction. Nature Communications, 2021, 12, 813. | 12.8 | 114 |
| 53 | Water-soluble carbon dots derived from curcumin and citric acid with enhanced broad-spectrum antibacterial and antibiofilm activity. Materials Today Communications, 2021, 26, 102000. | 1.9 | 20 |
| 54 | Simple Semiempirical Method for the Location Determination of HOMO and LUMO of Carbon Dots. Journal of Physical Chemistry C, 2021, 125, 7451-7457. | 3.1 | 22 |

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|----|---|------|-----------|
| 55 | A molecular architectural design that promises potent antimicrobial activity against multidrug-resistant pathogens. <i>NPG Asia Materials</i> , 2021, 13, . | 7.9 | 15 |
| 56 | Carbonâ€•Based Whiteâ€•Lightâ€•Emitting Diodes with Adjustable Correlated Color Temperature Guided by Machine Learning. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12585-12590. | 13.8 | 60 |
| 57 | 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. | 12.7 | 54 |
| 58 | Photocatalytic selective H ₂ release from formic acid enabled by CO ₂ captured carbon nitride. <i>Nanotechnology</i> , 2021, 32, 275404. | 2.6 | 3 |
| 59 | Carbonâ€•Based Whiteâ€•Lightâ€•Emitting Diodes with Adjustable Correlated Color Temperature Guided by Machine Learning. <i>Angewandte Chemie</i> , 2021, 133, 12693-12698. | 2.0 | 8 |
| 60 | Effective Low-Temperature Methanol Aqueous Phase Reforming with Metal-Free Carbon Dots/C ₃ N ₄ Composites. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 24702-24709. | 8.0 | 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. | 8.0 | 41 |
| 62 | In-situ photovoltage transients assisted catalytic study on H ₂ O ₂ photoproduction over organic molecules modified carbon nitride photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2021, 285, 119817. | 20.2 | 42 |
| 63 | Bandgap engineering of two-dimensional C ₃ N bilayers. <i>Nature Electronics</i> , 2021, 4, 486-494. | 26.0 | 36 |
| 64 | Fluorescent nanoparticles as tools in ecology and physiology. <i>Biological Reviews</i> , 2021, 96, 2392-2424. | 10.4 | 13 |
| 65 | Hydroxyl-terminated carbon dots for efficient conversion of cyclohexane to adipic acid. <i>Journal of Colloid and Interface Science</i> , 2021, 591, 281-289. | 9.4 | 18 |
| 66 | Carbon nitride assisted 2D conductive metal-organic frameworks composite photocatalyst for efficient visible light-driven H ₂ O ₂ production. <i>Applied Catalysis B: Environmental</i> , 2021, 289, 120035. | 20.2 | 84 |
| 67 | Carbon dots/Bi ₂ WO ₆ composite with compensatory photo-electronic effect for overall water photo-splitting at normal pressure. <i>Chinese Chemical Letters</i> , 2021, 32, 2283-2286. | 9.0 | 23 |
| 68 | Pseudoâ€•Periodically Coupling Niâ€•O Lattice with Ceâ€•O Lattice in Ultrathin Heteronanowire Arrays for Efficient Water Oxidation. <i>Small</i> , 2021, 17, e2101727. | 10.0 | 39 |
| 69 | Pyrolic nitrogen dominated the carbon dot mimic oxidase activity. <i>Carbon</i> , 2021, 179, 692-700. | 10.3 | 50 |
| 70 | Agâ€•Inâ€•Znâ€•S Quantum Dot-Dominated Interface Kinetics in Agâ€•Inâ€•Znâ€•S/NiFe LDH Composites toward Efficient Photoassisted Electrocatalytic Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 42125-42137. | 8.0 | 26 |
| 71 | A carbon dotâ€•based total green and selfâ€•recoverable solidâ€•state electrochemical cell fully utilizing O ₂ /H ₂ O redox couple. <i>SusMat</i> , 2021, 1, 448-457. | 14.9 | 12 |
| 72 | Converting Organic Wastewater into CO Using MOFs-Derived Co/In ₂ O ₃ Double-Shell Photocatalyst. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 40754-40765. | 8.0 | 21 |

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|----|--|------|-----------|
| 73 | 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. | 20.2 | 52 |
| 74 | Electric field polarized sulfonated carbon dots/NiFe layered double hydroxide as highly efficient electrocatalyst for oxygen evolution reaction. <i>Chemical Engineering Journal</i> , 2021, 420, 129690. | 12.7 | 16 |
| 75 | Carbon dots/PtW6O24 composite as efficient and stable electrocatalyst for hydrogen oxidation reaction in PEMFCs. <i>Chemical Engineering Journal</i> , 2021, 426, 130709. | 12.7 | 25 |
| 76 | Polytriptycene@CdS double shell hollow spheres with enhanced interfacial charge transfer for highly efficient photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2021, 9, 9105-9112. | 10.3 | 30 |
| 77 | Carbon dots modified Ti3C2Tx-based fibrous supercapacitor with photo-enhanced capacitance. <i>Nano Research</i> , 2021, 14, 3886-3892. | 10.4 | 31 |
| 78 | Edible and highly biocompatible nanodots from natural plants for the treatment of stress gastric ulcers. <i>Nanoscale</i> , 2021, 13, 6809-6818. | 5.6 | 17 |
| 79 | Highly stable and bright blue light-emitting diodes based on carbon dots with a chemically inert surface. <i>Nanoscale Advances</i> , 2021, 3, 6949-6955. | 4.6 | 6 |
| 80 | Revealing Hydrogen Evolution Performance of Single-Atom Platinum Electrocatalyst with Polyoxometalate Molecular Models. <i>ACS Energy Letters</i> , 2021, 6, 4055-4062. | 17.4 | 35 |
| 81 | Photo-Voltage Transients for Real-Time Analysis of the Interactions between Molecules and Membranes. <i>ACS Applied Bio Materials</i> , 2021, 4, 620-629. | 4.6 | 5 |
| 82 | Photo-charge regulation of metal-free photocatalyst by carbon dots for efficient and stable hydrogen peroxide production. <i>Journal of Materials Chemistry A</i> , 2021, 9, 25453-25462. | 10.3 | 34 |
| 83 | Advanced hydrogen evolution electrocatalysts promising sustainable hydrogen and chlor-alkali co-production. <i>Energy and Environmental Science</i> , 2021, 14, 6191-6210. | 30.8 | 53 |
| 84 | Organic Semiconductor/Carbon Dot Composites for Highly Efficient Hydrogen and Hydrogen Peroxide Coproduction from Water Photosplitting. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 60561-60570. | 8.0 | 24 |
| 85 | Carbon dots modified WO2-NaxWO3 composite as UV-Vis-NIR broad spectrum-driven photocatalyst for overall water splitting. <i>Catalysis Today</i> , 2020, 340, 152-160. | 4.4 | 14 |
| 86 | Pd Nanoparticles with Twin Structures on F-doped Graphene for Formic Acid Oxidation. <i>ChemCatChem</i> , 2020, 12, 504-509. | 3.7 | 15 |
| 87 | 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. | 10.3 | 89 |
| 88 | A CO ₂ adsorption dominated carbon defect-based electrocatalyst for efficient carbon dioxide reduction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1205-1211. | 10.3 | 75 |
| 89 | Highly Efficient Photoreduction of Low Concentration CO ₂ to Syngas by Using a Polyoxometalates/Ru Composite. <i>Chemistry - A European Journal</i> , 2020, 26, 2735-2740. | 3.3 | 38 |
| 90 | Polyoxometalate film simultaneously converts multiple low-value all-weather environmental energy to electricity. <i>Nano Energy</i> , 2020, 68, 104349. | 16.0 | 18 |

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|-----|---|------|-----------|
| 91 | Highly mesoporous carbon nitride photocatalysts for efficient and stable overall water splitting. <i>Applied Surface Science</i> , 2020, 509, 144706. | 6.1 | 15 |
| 92 | Carbon Dots Enable Efficient Delivery of Functional DNA in Plants. <i>ACS Applied Bio Materials</i> , 2020, 3, 8857-8864. | 4.6 | 33 |
| 93 | Carbon dot-modified mesoporous carbon as a supercapacitor with enhanced light-assisted capacitance. <i>Nanoscale</i> , 2020, 12, 17925-17930. | 5.6 | 25 |
| 94 | Spatial-temporal profiling of antibiotic metabolites using graphite dots-assisted laser desorption ionization mass spectrometry. <i>Talanta</i> , 2020, 220, 121371. | 5.5 | 6 |
| 95 | Enhanced charge separation and photocatalytic hydrogen evolution in carbonized-polymer-dot-coupled lead halide perovskites. <i>Materials Horizons</i> , 2020, 7, 2719-2725. | 12.2 | 38 |
| 96 | 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. | 8.0 | 74 |
| 97 | A photo-activated process cascaded electrocatalysis for the highly efficient CO ₂ reduction over a core-shell ZIF-8@Co/C. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16616-16623. | 10.3 | 13 |
| 98 | Optoelectronic and photocatalytic properties of In ³⁺ /VI QDs: Bridging between traditional and emerging new QDs. <i>Journal of Semiconductors</i> , 2020, 41, 091701. | 3.7 | 13 |
| 99 | Photo-tunable organic resistive random access memory based on PVP/N-doped carbon dot nanocomposites for encrypted image storage. <i>Journal of Materials Chemistry C</i> , 2020, 8, 14789-14795. | 5.5 | 18 |
| 100 | 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. | 5.4 | 4 |
| 101 | Carbon Nitride Quantum Dots Enhancing the Anodic Electrochemiluminescence of Ruthenium(II) Tris(2,2'-bipyridyl) via Inhibiting the Oxygen Evolution Reaction. <i>Analytical Chemistry</i> , 2020, 92, 15352-15360. | 6.5 | 24 |
| 102 | Reduced polyoxometalates and bipyridine ruthenium complex forming a tunable photocatalytic system for high efficient CO ₂ reduction. <i>Chemical Engineering Journal</i> , 2020, 398, 125518. | 12.7 | 47 |
| 103 | A Bright and Stable Violet Carbon Dot Light-Emitting Diode. <i>Advanced Optical Materials</i> , 2020, 8, 2000239. | 7.3 | 30 |
| 104 | Single atoms or not? The limitation of EXAFS. <i>Applied Physics Letters</i> , 2020, 116, . | 3.3 | 46 |
| 105 | Highly efficient water splitting over a RuO ₂ /F-doped graphene electrocatalyst with ultra-low ruthenium content. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 2188-2194. | 6.0 | 29 |
| 106 | Functionalization of metal oxides with thiocyanate groups: A general strategy for boosting oxygen evolution reaction in neutral media. <i>Nano Energy</i> , 2020, 76, 105079. | 16.0 | 16 |
| 107 | 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. | 8.0 | 21 |
| 108 | Advances in carbon dots: from the perspective of traditional quantum dots. <i>Materials Chemistry Frontiers</i> , 2020, 4, 1586-1613. | 5.9 | 208 |

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|-----|--|------|-----------|
| 109 | A 4e ⁻ 2e ⁻ 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. | 20.2 | 68 |
| 110 | Highly Efficient Oxygen Evolution by a Thermocatalytic Process Cascaded Electrocatalysis Over Sulfur-Treated Fe-Based Metal-Organic Frameworks. <i>Advanced Energy Materials</i> , 2020, 10, 2000184. | 19.5 | 75 |
| 111 | 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. | 10.3 | 44 |
| 112 | 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. | 20.2 | 110 |
| 113 | Crystallized RuTe ₂ as unexpected bifunctional catalyst for overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2020, 278, 119281. | 20.2 | 161 |
| 114 | A photoactive process cascaded electrocatalysis for enhanced methanol oxidation over Pt-MXene-TiO ₂ composite. <i>Nano Research</i> , 2020, 13, 2683-2690. | 10.4 | 37 |
| 115 | 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. | 5.8 | 57 |
| 116 | Polyoxometalate-based electron transfer modulation for efficient electrocatalytic carbon dioxide reduction. <i>Chemical Science</i> , 2020, 11, 3007-3015. | 7.4 | 61 |
| 117 | Bi-functional Fe ₂ ZrO ₅ modified hematite photoanode for efficient solar water splitting. <i>Applied Catalysis B: Environmental</i> , 2020, 269, 118768. | 20.2 | 38 |
| 118 | One-Step Direct Fixation of Atmospheric CO ₂ by Si-H Surface in Solution. <i>IScience</i> , 2020, 23, 100806. | 4.1 | 3 |
| 119 | Pt-O bond as an active site superior to PtO in hydrogen evolution reaction. <i>Nature Communications</i> , 2020, 11, 490. | 12.8 | 184 |
| 120 | Tree-inspired ultra-rapid steam generation and simultaneous energy harvesting under weak illumination. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10260-10268. | 10.3 | 25 |
| 121 | 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. | 1.9 | 30 |
| 122 | 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. | 10.3 | 42 |
| 123 | Carbon dots: advances in nanocarbon applications. <i>Nanoscale</i> , 2019, 11, 19214-19224. | 5.6 | 267 |
| 124 | The design of room-temperature-phosphorescent carbon dots and their application as a security ink. <i>Journal of Materials Chemistry C</i> , 2019, 7, 10605-10612. | 5.5 | 88 |
| 125 | A switchable-selectivity multiple-interface Ni-WC hybrid catalyst for efficient nitroarene reduction. <i>Journal of Catalysis</i> , 2019, 377, 174-182. | 6.2 | 24 |
| 126 | Efficient photocatalytic water splitting through titanium silicalite stabilized CoO nanodots. <i>Nanoscale</i> , 2019, 11, 15984-15990. | 5.6 | 28 |

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|-----|---|------|-----------|
| 127 | Co-doped carbon layer to lower the onset potential of hematite for solar water oxidation. <i>Applied Catalysis B: Environmental</i> , 2019, 258, 117962. | 20.2 | 28 |
| 128 | Nonlinear optical switching behavior of nitrogen-doped carbon dots. <i>Optical Materials</i> , 2019, 95, 109216. | 3.6 | 12 |
| 129 | Cable-like Ru/WNO@C nanowires for simultaneous high-efficiency hydrogen evolution and low-energy consumption chlor-alkali electrolysis. <i>Energy and Environmental Science</i> , 2019, 12, 2569-2580. | 30.8 | 137 |
| 130 | High-Performance Metal-Organic Framework-Based Single Ion Conducting Solid-State Electrolytes for Low-Temperature Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 43206-43213. | 8.0 | 104 |
| 131 | Photocatalytic Polymerization from Amino Acid to Protein by Carbon Dots at Room Temperature. <i>ACS Applied Bio Materials</i> , 2019, 2, 5144-5153. | 4.6 | 17 |
| 132 | N doped carbon dots modified needle-like NiCo ₂ O ₄ supported on graphene as efficient dual-functional electrocatalyst for oxygen reduction and evolution reactions. <i>Journal of Electroanalytical Chemistry</i> , 2019, 855, 113617. | 3.8 | 29 |
| 133 | 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. | 5.1 | 66 |
| 134 | Biotoxicity of degradable carbon dots towards microalgae <i>Chlorella vulgaris</i> . <i>Environmental Science: Nano</i> , 2019, 6, 3316-3323. | 4.3 | 28 |
| 135 | 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. | 6.7 | 35 |
| 136 | Installing earth-abundant metal active centers to covalent organic frameworks for efficient heterogeneous photocatalytic CO ₂ reduction. <i>Applied Catalysis B: Environmental</i> , 2019, 254, 624-633. | 20.2 | 212 |
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| 138 | Enhanced RuBisCO activity and promoted dicotyledons growth with degradable carbon dots. <i>Nano Research</i> , 2019, 12, 1585-1593. | 10.4 | 73 |
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