

Si-Yu Lu

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.

210
papers

9,816
citations

54
h-index

90
g-index

232
ext. papers

14,567
ext. citations

10.6
avg, IF

7.17
L-index

#	Paper	IF	Citations
210	The light of carbon dots: From mechanism to applications. <i>Matter</i> , 2022 , 5, 110-149	12.7	48
209	Rationally Driven Drug Nonradiative Decay via a Label-Free Polyprodrug Strategy to Renew Tumor Cascade Photothermal-Chemotherapy.. <i>Macromolecular Rapid Communications</i> , 2022 , e2100918	4.8	0
208	Ethanol-derived white emissive carbon dots: the formation process investigation and multi-color/white LEDs preparation. <i>Nano Research</i> , 2022 , 15, 942	10	13
207	Photoinduced Single-Crystal to Single-Crystal Transformation via Conformational Change with Turn-On Fluorescence. <i>Crystal Growth and Design</i> , 2022 , 22, 2082-2086	3.5	0
206	Carbon Dots as a Potential Therapeutic Agent for the Treatment of cancer-related Anemia.. <i>Advanced Materials</i> , 2022 , e2200905	24	1
205	Carbon Dots as New Building Blocks for Electrochemical Energy Storage and Electrocatalysis. <i>Advanced Energy Materials</i> , 2022 , 12, 2103426	21.8	13
204	In vivo hitchhiking of immune cells by intracellular self-assembly of bacteria-mimetic nanomedicine for targeted therapy of melanoma.. <i>Science Advances</i> , 2022 , 8, eabn1805	14.3	2
203	Which kind of nitrogen chemical states doped carbon dots loaded by g-CN is the best for photocatalytic hydrogen production.. <i>Journal of Colloid and Interface Science</i> , 2022 , 622, 662-674	9.3	0
202	Engineering Nitrogen Vacancy in Polymeric Carbon Nitride for Nitrate Electroreduction to Ammonia. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 54967-54973	9.5	5
201	N-doped silk wadding-derived carbon/SnO @reduced graphene oxide film as an ultra-stable anode for sodium-ion half/full battery. <i>Chemical Engineering Journal</i> , 2021 , 433, 133675	14.7	2
200	Recent advances in performance improvement of Metal-organic Frameworks to remove antibiotics: Mechanism and evaluation.. <i>Science of the Total Environment</i> , 2021 , 811, 152351	10.2	3
199	NIR II Light-Response Au Nanoframes: Amplification of a Pressure- and Temperature-Sensing Strategy for Portable Detection and Photothermal Therapy of Cancer Cells. <i>Analytical Chemistry</i> , 2021 , 93, 14307-14316	7.8	4
198	Fast Broad-Spectrum Staining and Photodynamic Inhibition of Pathogenic Microorganisms by a Water-Soluble Aggregation-Induced Emission Photosensitizer. <i>Frontiers in Chemistry</i> , 2021 , 9, 755419	5	7
197	Suppressing Water Dissociation via Control of Intrinsic Oxygen Defects for Awakening Solar H ₂ O-to-H ₂ O Generation. <i>Small</i> , 2021 , 17, e2100400	11	9
196	Efficient Combination of G-C N and CDs for Enhanced Photocatalytic Performance: A Review of Synthesis, Strategies, and Applications. <i>Small</i> , 2021 , 17, e2007523	11	32
195	Rational Design of Multicolor-Emitting Chiral Carbonized Polymer Dots for Full-Color and White Circularly Polarized Luminescence. <i>Angewandte Chemie</i> , 2021 , 133, 14210-14218	3.6	9
194	Rational Design of Multicolor-Emitting Chiral Carbonized Polymer Dots for Full-Color and White Circularly Polarized Luminescence. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 14091-14099	16.4	54

193	Coupling of Ru and O-Vacancy on 2D Mo-Based Electrocatalyst Via a Solid-Phase Interface Reaction Strategy for Hydrogen Evolution Reaction. <i>Advanced Energy Materials</i> , 2021 , 11, 2100141	21.8	22
192	In Situ Activated Co ₃ Ni ₂ O ₄ as a Highly Active and Ultrastable Electrocatalyst for Hydrogen Generation. <i>ACS Catalysis</i> , 2021 , 11, 8174-8182	13.1	13
191	Red-emitting, self-oxidizing carbon dots for the preparation of white LEDs with super-high color rendering index. <i>Science China Chemistry</i> , 2021 , 64, 1547-1553	7.9	34
190	Polyamine-Responsive Morphological Transformation of a Supramolecular Peptide for Specific Drug Accumulation and Retention in Cancer Cells. <i>Small</i> , 2021 , 17, e2101139	11	10
189	Facile Synthesis of Water-Stable Multicolor Carbonized Polymer Dots from a Single Unconjugated Glucose for Engineering White Light-Emitting Diodes with a High Color Rendering Index. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 30098-30105	9.5	14
188	Self-Standing Film Assembled using SnS-Sn/Multiwalled Carbon Nanotubes Encapsulated Carbon Fibers: A Potential Large-Scale Production Material for Ultra-stable Sodium-Ion Battery Anodes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 28359-28368	9.5	30
187	Membrane-free selective oxidation of thioethers with water over a nickel phosphide nanocube electrode. <i>Cell Reports Physical Science</i> , 2021 , 2, 100462	6.1	5
186	A composite prepared from covalent organic framework and gold nanoparticles for the electrochemical determination of enrofloxacin. <i>Advanced Powder Technology</i> , 2021 , 32, 2106-2115	4.6	5
185	Ag@TiO ₂ as an Efficient Electrocatalyst for N ₂ Fixation to NH ₃ under Ambient Conditions. <i>ChemistrySelect</i> , 2021 , 6, 5271-5274	1.8	3
184	Selenium Vacancy Promotes Transfer Semihydrogenation of Alkynes from Water Electrolysis. <i>ACS Catalysis</i> , 2021 , 11, 9471-9478	13.1	5
183	Hydrogen Evolution Reaction: Coupling of Ru and O-Vacancy on 2D Mo-Based Electrocatalyst Via a Solid-Phase Interface Reaction Strategy for Hydrogen Evolution Reaction (Adv. Energy Mater. 26/2021). <i>Advanced Energy Materials</i> , 2021 , 11, 2170102	21.8	0
182	Facile construction for new core-shell Z-scheme photocatalyst GO/AgI/BiO with enhanced visible-light photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2021 , 581, 148-158	9.3	30
181	Recent advances in non-noble metal electrocatalysts for nitrate reduction. <i>Chemical Engineering Journal</i> , 2021 , 403, 126269	14.7	102
180	Thermally-assisted photocatalytic CO ₂ reduction to fuels. <i>Chemical Engineering Journal</i> , 2021 , 408, 127280	14.7	31
179	Rational design of carbon materials as anodes for potassium-ion batteries. <i>Energy Storage Materials</i> , 2021 , 34, 483-507	19.4	59
178	Carbon dots-confined CoP-CoO nanoheterostructure with strong interfacial synergy triggered the robust hydrogen evolution from ammonia borane. <i>Journal of Energy Chemistry</i> , 2021 , 57, 198-205	12	33
177	Commercial indium-tin oxide glass: A catalyst electrode for efficient N ₂ reduction at ambient conditions. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 1024-1029	11.3	44
176	Recent advances in supramolecular antidotes. <i>Theranostics</i> , 2021 , 11, 1513-1526	12.1	21

175	Photoacoustic Cavitation-Ignited Reactive Oxygen Species to Amplify Peroxynitrite Burst by Photosensitization-Free Polymeric Nanocapsules. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 4720-4731	16.4	35
174	Transformable Honeycomb-Like Nanoassemblies of Carbon Dots for Regulated Multisite Delivery and Enhanced Antitumor Chemoimmunotherapy. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 6581-6592	16.4	27
173	Anion Vacancy Engineering in Electrocatalytic Water Splitting. <i>ChemNanoMat</i> , 2021 , 7, 102-109	3.5	4
172	Tumor Microenvironment-"AND" Near-Infrared Light-Activated Coordination Polymer Nanoprodrug for On-Demand CO-Sensitized Synergistic Cancer Therapy. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2001728	10.1	7
171	Photoacoustic Cavitation-Ignited Reactive Oxygen Species to Amplify Peroxynitrite Burst by Photosensitization-Free Polymeric Nanocapsules. <i>Angewandte Chemie</i> , 2021 , 133, 4770-4781	3.6	2
170	Transformable Honeycomb-Like Nanoassemblies of Carbon Dots for Regulated Multisite Delivery and Enhanced Antitumor Chemoimmunotherapy. <i>Angewandte Chemie</i> , 2021 , 133, 6655-6666	3.6	1
169	A magnetron sputtered Mo ₃ Si thin film: an efficient electrocatalyst for N ₂ reduction under ambient conditions. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 884-888	13	53
168	Insights into photoluminescence mechanisms of carbon dots: advances and perspectives. <i>Science Bulletin</i> , 2021 , 66, 839-856	10.6	96
167	A regenerable ion-imprinted magnetic biocomposite for selective adsorption and detection of Pb in aqueous solution. <i>Journal of Hazardous Materials</i> , 2021 , 408, 124410	12.8	9
166	Exploiting Ru-Induced Lattice Strain in CoRu Nanoalloys for Robust Bifunctional Hydrogen Production. <i>Angewandte Chemie</i> , 2021 , 133, 3327-3335	3.6	13
165	Exploiting Ru-Induced Lattice Strain in CoRu Nanoalloys for Robust Bifunctional Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 3290-3298	16.4	120
164	Iron-group electrocatalysts for ambient nitrogen reduction reaction in aqueous media. <i>Nano Research</i> , 2021 , 14, 555-569	10	84
163	New-phase retention in colloidal core/shell nanocrystals pressure-modulated phase engineering. <i>Chemical Science</i> , 2021 , 12, 6580-6587	9.4	3
162	Modulating Oxygen Vacancies of TiO ₂ Nanospheres by Mn-Doping to Boost Electrocatalytic N ₂ Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 1512-1517	8.3	18
161	Magnetron sputtering enabled sustainable synthesis of nanomaterials for energy electrocatalysis. <i>Green Chemistry</i> , 2021 , 23, 2834-2867	10	40
160	Synthesis of an AIEgen functionalized cucurbit[7]uril for subcellular bioimaging and synergistic photodynamic therapy and supramolecular chemotherapy. <i>Chemical Science</i> , 2021 , 12, 7727-7734	9.4	11
159	Recent advances in perovskite oxides as electrode materials for supercapacitors. <i>Chemical Communications</i> , 2021 , 57, 2343-2355	5.8	29
158	Cu ₂ Sb decorated Cu nanowire arrays for selective electrocatalytic CO ₂ to CO conversion. <i>Nano Research</i> , 2021 , 14, 2831-2836	10	24

157	Embedding CsPbBr ₃ quantum dots into a pillar[5]arene-based supramolecular self-assembly for an efficient photocatalytic cross-coupling hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 10180-10185	13	9
156	A-site perovskite oxides: an emerging functional material for electrocatalysis and photocatalysis. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 6650-6670	13	48
155	Single Atom Ruthenium-Doped CoP/CDs Nanosheets via Splicing of Carbon-Dots for Robust Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 7234-7244	16.4	110
154	Single Atom Ruthenium-Doped CoP/CDs Nanosheets via Splicing of Carbon-Dots for Robust Hydrogen Production. <i>Angewandte Chemie</i> , 2021 , 133, 7310-7320	3.6	3
153	Pressure-Triggered Blue Emission of Zero-Dimensional Organic Bismuth Bromide Perovskite. <i>Advanced Science</i> , 2021 , 8, 2004853	13.6	12
152	Theoretical Understanding of Structure-Property Relationships in Luminescence of Carbon Dots. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 7671-7687	6.4	31
151	Full-spectrum responsive photocatalytic activity via non-noble metal Bi decorated mulberry-like BiVO ₄ . <i>Journal of Materials Science and Technology</i> , 2021 , 83, 102-112	9.1	15
150	Recent development of electrochemical nitrate reduction to ammonia: A mini review. <i>Electrochemistry Communications</i> , 2021 , 129, 107094	5.1	11
149	Nitrogen-Doped Chiral CuO/CoO Nanofibers: An Enhanced Electrochemiluminescence Sensing Strategy for Detection of 3,4-Dihydroxy-Phenylalanine Enantiomers. <i>Analytical Chemistry</i> , 2021 , 93, 11470-11478	7.8	11478
148	Photoinduced Reaction Pathway Change for Boosting CO ₂ Hydrogenation over a MnO-Co Catalyst. <i>ACS Catalysis</i> , 2021 , 11, 10316-10323	13.1	1
147	NiFe Layered-Double-Hydroxide Nanosheet Arrays on Graphite Felt: A 3D Electrocatalyst for Highly Efficient Water Oxidation in Alkaline Media. <i>Inorganic Chemistry</i> , 2021 , 60, 12703-12708	5.1	36
146	Cerium-Doped Perovskite Nanocrystals for Extremely High-Performance Deep-Ultraviolet Photoelectric Detection. <i>Advanced Optical Materials</i> , 2021 , 9, 2100423	8.1	5
145	Self-standing and high-performance B4C/Sn/acetylene black@reduced graphene oxide films as sodium-ion half/full battery anodes. <i>Applied Materials Today</i> , 2021 , 24, 101137	6.6	3
144	Engineering white light-emitting diodes with high color rendering index from biomass carbonized polymer dots. <i>Journal of Colloid and Interface Science</i> , 2021 , 598, 274-282	9.3	12
143	Solid-State Red Laser with a Single Longitudinal Mode from Carbon Dots. <i>Angewandte Chemie</i> , 2021 , 133, 25718	3.6	1
142	Solid-State Red Laser with a Single Longitudinal Mode from Carbon Dots. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25514-25521	16.4	8
141	Cell density-dependent regulation of microcystin synthetase genes (mcy) expression and microcystin-LR production in <i>Microcystis aeruginosa</i> that mimics quorum sensing. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 220, 112330	7	6
140	Carbon dots as a new class of nanomedicines: Opportunities and challenges. <i>Coordination Chemistry Reviews</i> , 2021 , 442, 214010	23.2	46

139	Rational Building of Nonblinking Carbon Dots via Charged State Recovery. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 8614-8620	6.4	1
138	Red-light-responsive coordination polymers nanorods: New strategy for ultrasensitive photothermal detection of targeted cancer cells. <i>Biosensors and Bioelectronics</i> , 2021 , 190, 113417	11.8	3
137	Advances and challenges in 2D MXenes: From structures to energy storage and conversions. <i>Nano Today</i> , 2021 , 40, 101273	17.9	19
136	Boron-nitrogen-doped carbon dots on multi-walled carbon nanotubes for efficient electrocatalysis of oxygen reduction reactions. <i>Journal of Colloid and Interface Science</i> , 2021 , 600, 865-871	9.3	11
135	Recent advances in strategies for highly selective electrocatalytic N ₂ reduction toward ambient NH ₃ synthesis. <i>Current Opinion in Electrochemistry</i> , 2021 , 29, 100766	7.2	43
134	Native Mitochondria-Targeting polymeric nanoparticles for mild photothermal therapy rationally potentiated with immune checkpoints blockade to inhibit tumor recurrence and metastasis. <i>Chemical Engineering Journal</i> , 2021 , 424, 130171	14.7	13
133	Decoration of Ru/RuO hybrid nanoparticles on MoO plane as bifunctional electrocatalyst for overall water splitting. <i>Journal of Colloid and Interface Science</i> , 2021 , 604, 508-516	9.3	3
132	Recent Progress in Electrocatalytic Methanation of CO ₂ at Ambient Conditions. <i>Advanced Functional Materials</i> , 2021 , 31, 2009449	15.6	40
131	NIR emissive light-harvesting systems through perovskite passivation and sequential energy transfer for third-level fingerprint imaging. <i>Chemical Communications</i> , 2021 , 57, 9434-9437	5.8	4
130	Surface oxygen vacancies promoted Pt redispersion to single-atoms for enhanced photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 13890-13897	13	9
129	Electrocatalytic hydrogen peroxide production in acidic media enabled by NiS ₂ nanosheets. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 6117-6122	13	45
128	Rational collaborative ablation of bacterial biofilms ignited by physical cavitation and concurrent deep antibiotic release. <i>Biomaterials</i> , 2020 , 262, 120341	15.6	31
127	Oxidation-etching induced morphology regulation of Cu catalysts for high-performance electrochemical N ₂ reduction. <i>EcoMat</i> , 2020 , 2, e12026	9.4	7
126	High-performance non-enzymatic glucose detection: using a conductive Ni-MOF as an electrocatalyst. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 5411-5415	7.3	63
125	Recent advances in electrospun one-dimensional carbon nanofiber structures/heterostructures as anode materials for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11493-11510	13	69
124	Selective Decoating-Induced Activation of Supramolecularly Coated Toxic Nanoparticles for Multiple Applications. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 25604-25615	9.5	11
123	Carbon Dots: UV-Vis-NIR Full-Range Responsive Carbon Dots with Large Multiphoton Absorption Cross Sections and Deep-Red Fluorescence at Nucleoli and In Vivo (Small 19/2020). <i>Small</i> , 2020 , 16, 2070107	11.7	2
122	Bi _{0.5} Sb _{1.5} Te ₃ /PEDOT:PSS-based flexible thermoelectric film and device. <i>Chemical Engineering Journal</i> , 2020 , 397, 125360	14.7	66

121	A cobalt phosphorus nanoparticle decorated N-doped carbon nanosheet array for efficient and durable hydrogen evolution at alkaline pH. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 3884-3887	5.8	94
120	Ultralong and efficient phosphorescence from silica confined carbon nanodots in aqueous solution. <i>Nano Today</i> , 2020 , 34, 100900	17.9	66
119	Aqueous Self-Assembly of Block Copolymers to Form Manganese Oxide-Based Polymeric Vesicles for Tumor Microenvironment-Activated Drug Delivery. <i>Nano-Micro Letters</i> , 2020 , 12, 124	19.5	15
118	Identifying the Origin of Ti Activity toward Enhanced Electrocatalytic N Reduction over TiO Nanoparticles Modulated by Mixed-Valent Copper. <i>Advanced Materials</i> , 2020 , 32, e2000299	24	171
117	Pressure-Induced Emission Enhancements of Mn ²⁺ -Doped Cesium Lead Chloride Perovskite Nanocrystals 2020 , 2, 381-388		20
116	In vivo photothermal inhibition of methicillin-resistant Staphylococcus aureus infection by in situ templated formulation of pathogen-targeting phototheranostics. <i>Nanoscale</i> , 2020 , 12, 7651-7659	7.7	54
115	Sn dendrites for electrocatalytic N ₂ reduction to NH ₃ under ambient conditions. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 4469-4472	5.8	43
114	Greatly Enhanced Electrocatalytic N ₂ Reduction over V ₂ O ₃ /C by P Doping. <i>ChemNanoMat</i> , 2020 , 6, 13153, 1319 62		
113	Cocktail polyprodrug nanoparticles concurrently release cisplatin and peroxyxynitrite-generating nitric oxide in cisplatin-resistant cancers. <i>Chemical Engineering Journal</i> , 2020 , 402, 126125	14.7	42
112	CuO@CoFe Layered Double Hydroxide Core-Shell Heterostructure as an Efficient Water Oxidation Electrocatalyst under Mild Alkaline Conditions. <i>Inorganic Chemistry</i> , 2020 , 59, 9491-9495	5.1	37
111	Recent advances in electrospun nanofibers for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16747-16789	13	79
110	S,N-Codoped oil-soluble fluorescent carbon dots for a high color-rendering WLED. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 4343-4349	7.1	24
109	Graphene Oxide and Adiponectin-Functionalized Sulfonated Poly(etheretherketone) with Effective Osteogenicity and Remotely Repeatable Photodisinfection. <i>Chemistry of Materials</i> , 2020 , 32, 2180-2193	9.6	36
108	Carbon Dots and RuP ₂ Nanohybrid as an Efficient Bifunctional Catalyst for Electrochemical Hydrogen Evolution Reaction and Hydrolysis of Ammonia Borane. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 3995-4002	8.3	42
107	Hierarchical CuO@ZnCo LDH heterostructured nanowire arrays toward enhanced water oxidation electrocatalysis. <i>Nanoscale</i> , 2020 , 12, 5359-5362	7.7	68
106	Ambient electrochemical NH synthesis from N and water enabled by ZrO nanoparticles. <i>Chemical Communications</i> , 2020 , 56, 3673-3676	5.8	54
105	Solution-phase vertical growth of aligned NiCoO nanosheet arrays on Au nanosheets with weakened oxygen-hydrogen bonds for photocatalytic oxygen evolution. <i>Nanoscale</i> , 2020 , 12, 6195-6203	7.7	10
104	Bi nanodendrites for efficient electrocatalytic N fixation to NH under ambient conditions. <i>Chemical Communications</i> , 2020 , 56, 2107-2110	5.8	55

103	Bi and Sn Co-doping Enhanced Thermoelectric Properties of CuSbS Materials with Excellent Thermal Stability. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 8271-8279	9.5	14
102	Co ₃ (hexahydroxytriphenylene) ₂ : A conductive metal-organic framework for ambient electrocatalytic N ₂ reduction to NH ₃ . <i>Nano Research</i> , 2020 , 13, 1008-1012	10	33
101	Designed controllable nitrogen-doped carbon-dots-loaded MoP nanoparticles for boosting hydrogen evolution reaction in alkaline medium. <i>Nano Energy</i> , 2020 , 72, 104730	17.1	105
100	Carbon Dots Enhance Ruthenium Nanoparticles for Efficient Hydrogen Production in Alkaline. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2020 , 2009082-0	3.8	4
99	Carbon quantum dots enhanced the activity for the hydrogen evolution reaction in ruthenium-based electrocatalysts. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 277-284	7.8	58
98	Aqueous stable Pd nanoparticles/covalent organic framework nanocomposite: an efficient nanoenzyme for colorimetric detection and multicolor imaging of cancer cells. <i>Nanoscale</i> , 2020 , 12, 825-831	7.7	17
97	Interface electron collaborative migration of Co ₃ O ₄ /carbon dots: Boosting the hydrolytic dehydrogenation of ammonia borane. <i>Journal of Energy Chemistry</i> , 2020 , 48, 43-53	12	44
96	DyF : An Efficient Electrocatalyst for N Fixation to NH ₃ under Ambient Conditions. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 487-489	4.5	30
95	Photoactivated Fluorescence Enhancement in F,N-Doped Carbon Dots with Piezochromic Behavior. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 9986-9991	16.4	55
94	Carbon Dots-Implanted Graphitic Carbon Nitride Nanosheets for Photocatalysis: Simultaneously Manipulating Carrier Transport in Inter- and Intralayers. <i>Solar Rrl</i> , 2020 , 4, 1900517	7.1	23
93	A General Route to Prepare Low-Ruthenium-Content Bimetallic Electrocatalysts for pH-Universal Hydrogen Evolution Reaction by Using Carbon Quantum Dots. <i>Angewandte Chemie</i> , 2020 , 132, 1735-1743	3.6	26
92	Photoactivated Fluorescence Enhancement in F,N-Doped Carbon Dots with Piezochromic Behavior. <i>Angewandte Chemie</i> , 2020 , 132, 10072-10077	3.6	7
91	Optimization on preparation of FeO/chitosan as potential matrix material for the removal of microcystin-LR and its evaluation of adsorption properties. <i>International Journal of Biological Macromolecules</i> , 2020 , 156, 1574-1583	7.9	16
90	A General Route to Prepare Low-Ruthenium-Content Bimetallic Electrocatalysts for pH-Universal Hydrogen Evolution Reaction by Using Carbon Quantum Dots. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 1718-1726	16.4	250
89	Unveiling the Promotion of Surface-Adsorbed Chalcogenate on the Electrocatalytic Oxygen Evolution Reaction. <i>Angewandte Chemie</i> , 2020 , 132, 22656-22660	3.6	18
88	Noble-metal-free electrospun nanomaterials as electrocatalysts for oxygen reduction reaction. <i>Materials Today Physics</i> , 2020 , 15, 100280	8	45
87	Dual-Responsive Polyprodrug Nanoparticles with Cascade-Enhanced Magnetic Resonance Signals for Deep-Penetration Drug Release in Tumor Therapy. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 49489-49501	9.5	18
86	Recent advances in chiral carbonized polymer dots: From synthesis and properties to applications. <i>Nano Today</i> , 2020 , 34, 100953	17.9	41

85	Noble-metal-free electrocatalysts toward H ₂ O ₂ production. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 23123-23141	13	53
84	Metal-based electrocatalytic conversion of CO ₂ to formic acid/formate. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 21947-21960	13	54
83	Electrochemical non-enzymatic glucose sensors: recent progress and perspectives. <i>Chemical Communications</i> , 2020 , 56, 14553-14569	5.8	79
82	CuP nanoparticle-reduced graphene oxide hybrid: an efficient electrocatalyst to realize N-to-NH conversion under ambient conditions. <i>Chemical Communications</i> , 2020 , 56, 9328-9331	5.8	38
81	Bioorthogonal supramolecular cell-conjugation for targeted hitchhiking drug delivery. <i>Materials Today</i> , 2020 , 40, 9-17	21.8	18
80	Confining Carbon Dots in Porous Wood: The Singlet Oxygen Enhancement Strategy for Photothermal Signal-Amplified Detection of Mn ²⁺ . <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 17687-17696	8.3	9
79	Selective Transfer Semihydrogenation of Alkynes with H ₂ O (D ₂ O) as the H (D) Source over a Pd-P Cathode. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 21170-21175	16.4	31
78	SrTiO ₃ -based thermoelectrics: Progress and challenges. <i>Nano Energy</i> , 2020 , 78, 105195	17.1	52
77	Spatiotemporally controlled O and singlet oxygen self-sufficient nanophotosensitizers enable the high-yield synthesis of drugs and efficient hypoxic tumor therapy. <i>Chemical Science</i> , 2020 , 11, 8817-8827	9.4	8
76	Electrocatalytic N ₂ reduction to NH ₃ with high Faradaic efficiency enabled by vanadium phosphide nanoparticle on V foil. <i>Nano Research</i> , 2020 , 13, 2967-2972	10	32
75	Defects Enhance the Electrocatalytic Hydrogen Evolution Properties of MoS ₂ -based Materials. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 3123-3134	4.5	18
74	Enabling electrochemical conversion of N ₂ to NH ₃ under ambient conditions by a CoP ₃ nanoneedle array. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 17956-17959	13	35
73	ROS-initiated chemiluminescence-driven payload release from macrocycle-based Azo-containing polymer nanocapsules. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 8878-8883	7.3	2
72	Metal-catalyzed hydrolysis of ammonia borane: Mechanism, catalysts, and challenges. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 30325-30340	6.7	20
71	Enhanced electrocatalytic N-to-NH fixation by ZrS ₂ nanofibers with a sulfur vacancy. <i>Chemical Communications</i> , 2020 , 56, 14031-14034	5.8	16
70	Magnetron sputtering enabled synthesis of nanostructured materials for electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 20260-20285	13	7
69	Iron-based phosphides as electrocatalysts for the hydrogen evolution reaction: recent advances and future prospects. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 19729-19745	13	166
68	A nitrogen fixation strategy to synthesize NO via the thermally assisted photocatalytic conversion of air. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 19623-19630	13	12

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