

Si-Yu Lu

List of Publications by Citations

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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	Near-Infrared Photoluminescent Polymer-Carbon Nanodots with Two-Photon Fluorescence. <i>Advanced Materials</i> , 2017 , 29, 1603443	24	478
209	Recent progress on the photocatalysis of carbon dots: Classification, mechanism and applications. <i>Nano Today</i> , 2018 , 19, 201-218	17.9	353
208	Polymer-Passivated Inorganic Cesium Lead Mixed-Halide Perovskites for Stable and Efficient Solar Cells with High Open-Circuit Voltage over 1.3 V. <i>Advanced Materials</i> , 2018 , 30, 1705393	24	328
207	Design of Metal-Free Polymer Carbon Dots: A New Class of Room-Temperature Phosphorescent Materials. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2393-2398	16.4	295
206	Carbon-Quantum-Dots-Loaded Ruthenium Nanoparticles as an Efficient Electrocatalyst for Hydrogen Production in Alkaline Media. <i>Advanced Materials</i> , 2018 , 30, e1800676	24	280
205	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
204	Beyond bottom-up carbon nanodots: Citric-acid derived organic molecules. <i>Nano Today</i> , 2016 , 11, 128-132	17.9	180
203	Piezochromic Carbon Dots with Two-photon Fluorescence. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6187-6191	16.4	179
202	Near-infrared emissive carbon dots with 33.96% emission in aqueous solution for cellular sensing and light-emitting diodes. <i>Science Bulletin</i> , 2019 , 64, 1285-1292	10.6	173
201	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
200	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
199	Color-Tunable Carbon Dots Possessing Solid-State Emission for Full-Color Light-Emitting Diodes Applications. <i>ACS Photonics</i> , 2018 , 5, 502-510	6.3	151
198	Biomass-Derived Carbon Dots and Their Applications. <i>Energy and Environmental Materials</i> , 2019 , 2, 172-192	13	145
197	One-step hydrothermal synthesis of photoluminescent carbon nanodots with selective antibacterial activity against <i>Porphyromonas gingivalis</i> . <i>Nanoscale</i> , 2017 , 9, 7135-7142	7.7	135
196	Pressure-induced emission of cesium lead halide perovskite nanocrystals. <i>Nature Communications</i> , 2018 , 9, 4506	17.4	134
195	Kilogram-scale synthesis of carbon quantum dots for hydrogen evolution, sensing and bioimaging. <i>Chinese Chemical Letters</i> , 2019 , 30, 2323-2327	8.1	123
194	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

193	Construction of Ce-MOF@COF hybrid nanostructure: Label-free aptasensor for the ultrasensitive detection of oxytetracycline residues in aqueous solution environments. <i>Biosensors and Bioelectronics</i> , 2019 , 127, 92-100	11.8	114
192	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
191	High-Energy Density and Superhard Nitrogen-Rich B-N Compounds. <i>Physical Review Letters</i> , 2015 , 115, 105502	7.4	106
190	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
189	Colloidal Synthesis of Ultrathin Monoclinic BiVO ₄ Nanosheets for Z-Scheme Overall Water Splitting under Visible Light. <i>ACS Catalysis</i> , 2018 , 8, 8649-8658	13.1	105
188	Investigation of photoluminescence mechanism of graphene quantum dots and evaluation of their assembly into polymer dots. <i>Carbon</i> , 2014 , 77, 462-472	10.4	105
187	Recent advances in non-noble metal electrocatalysts for nitrate reduction. <i>Chemical Engineering Journal</i> , 2021 , 403, 126269	14.7	102
186	Insights into photoluminescence mechanisms of carbon dots: advances and perspectives. <i>Science Bulletin</i> , 2021 , 66, 839-856	10.6	96
185	High production-yield solid-state carbon dots with tunable photoluminescence for white/multi-color light-emitting diodes. <i>Science Bulletin</i> , 2019 , 64, 1788-1794	10.6	95
184	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
183	Two-dimensional oriented growth of Zn-MOF-on-Zr-MOF architecture: A highly sensitive and selective platform for detecting cancer markers. <i>Biosensors and Bioelectronics</i> , 2019 , 123, 51-58	11.8	94
182	Unveiling the Promotion of Surface-Adsorbed Chalcogenate on the Electrocatalytic Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 22470-22474	16.4	93
181	White Photoluminescent TiC MXene Quantum Dots with Two-Photon Fluorescence. <i>Advanced Science</i> , 2019 , 6, 1801470	13.6	92
180	pH-Dependent Synthesis of Novel Structure-Controllable Polymer-Carbon NanoDots with High Acidophilic Luminescence and Super Carbon Dots Assembly for White Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 4062-8	9.5	86
179	Supramolecular Cross-Link-Regulated Emission and Related Applications in Polymer Carbon Dots. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 12262-12277	9.5	86
178	Iron-group electrocatalysts for ambient nitrogen reduction reaction in aqueous media. <i>Nano Research</i> , 2021 , 14, 555-569	10	84
177	Rational Design of Multi-Color-Emissive Carbon Dots in a Single Reaction System by Hydrothermal. <i>Advanced Science</i> , 2020 , 8, 2001453	13.6	82
176	Self-crosslinking carbon dots loaded ruthenium dots as an efficient and super-stable hydrogen production electrocatalyst at all pH values. <i>Nano Energy</i> , 2019 , 65, 104023	17.1	80

175	Recent advances in electrospun nanofibers for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16747-16789	13	79
174	Electrochemical non-enzymatic glucose sensors: recent progress and perspectives. <i>Chemical Communications</i> , 2020 , 56, 14553-14569	5.8	79
173	UV-Vis-NIR Full-Range Responsive Carbon Dots with Large Multiphoton Absorption Cross Sections and Deep-Red Fluorescence at Nucleoli and In Vivo. <i>Small</i> , 2020 , 16, e2000680	11	77
172	Retrosynthesis of Tunable Fluorescent Carbon Dots for Precise Long-Term Mitochondrial Tracking. <i>Small</i> , 2019 , 15, e1901517	11	72
171	Cobalt-Ruthenium Nanoalloys Parceled in Porous Nitrogen-Doped Graphene as Highly Efficient Difunctional Catalysts for Hydrogen Evolution Reaction and Hydrolysis of Ammonia Borane. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 7014-7023	8.3	70
170	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
169	Graphitic Nitrogen and High-Crystalline Triggered Strong Photoluminescence and Room-Temperature Ferromagnetism in Carbonized Polymer Dots. <i>Advanced Science</i> , 2019 , 6, 1801192	13.6	69
168	Hierarchical CuO@ZnCo LDH heterostructured nanowire arrays toward enhanced water oxidation electrocatalysis. <i>Nanoscale</i> , 2020 , 12, 5359-5362	7.7	68
167	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
166	Ultralong and efficient phosphorescence from silica confined carbon nanodots in aqueous solution. <i>Nano Today</i> , 2020 , 34, 100900	17.9	66
165	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
164	Greatly Enhanced Electrocatalytic N ₂ Reduction over V ₂ O ₃ /C by P Doping. <i>ChemNanoMat</i> , 2020 , 6, 13153-1319	13.5	62
163	Porous LaFeO ₃ nanofiber with oxygen vacancies as an efficient electrocatalyst for N ₂ conversion to NH ₃ under ambient conditions. <i>Journal of Energy Chemistry</i> , 2020 , 50, 402-408	12	62
162	Pressure-triggered aggregation-induced emission enhancement in red emissive amorphous carbon dots. <i>Nanoscale Horizons</i> , 2019 , 4, 1227-1231	10.8	60
161	A NiCo LDH nanosheet array on graphite felt: an efficient 3D electrocatalyst for the oxygen evolution reaction in alkaline media. <i>Inorganic Chemistry Frontiers</i> ,	6.8	60
160	Rational design of carbon materials as anodes for potassium-ion batteries. <i>Energy Storage Materials</i> , 2021 , 34, 483-507	19.4	59
159	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
158	Bi nanodendrites for efficient electrocatalytic N fixation to NH ₃ under ambient conditions. <i>Chemical Communications</i> , 2020 , 56, 2107-2110	5.8	55

157	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
156	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
155	Ambient electrochemical NH synthesis from N and water enabled by ZrO nanoparticles. <i>Chemical Communications</i> , 2020 , 56, 3673-3676	5.8	54
154	Metal-based electrocatalytic conversion of CO ₂ to formic acid/formate. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 21947-21960	13	54
153	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
152	Noble-metal-free electrocatalysts toward H ₂ O ₂ production. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 23123-23141	13	53
151	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
150	SrTiO ₃ -based thermoelectrics: Progress and challenges. <i>Nano Energy</i> , 2020 , 78, 105195	17.1	52
149	Piezochromic Carbon Dots with Two-photon Fluorescence. <i>Angewandte Chemie</i> , 2017 , 129, 6283-6287	3.6	51
148	The light of carbon dots: From mechanism to applications. <i>Matter</i> , 2022 , 5, 110-149	12.7	48
147	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
146	Design of Metal-Free Polymer Carbon Dots: A New Class of Room-Temperature Phosphorescent Materials. <i>Angewandte Chemie</i> , 2018 , 130, 2417-2422	3.6	46
145	Carbon dots as a new class of nanomedicines: Opportunities and challenges. <i>Coordination Chemistry Reviews</i> , 2021 , 442, 214010	23.2	46
144	Hollow carbon shells enhanced by confined ruthenium as cost-efficient and superior catalysts for the alkaline hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 6676-6685	13	45
143	Noble-metal-free electrospun nanomaterials as electrocatalysts for oxygen reduction reaction. <i>Materials Today Physics</i> , 2020 , 15, 100280	8	45
142	Biofilm-Responsive Polymeric Nanoparticles with Self-Adaptive Deep Penetration for In Vivo Photothermal Treatment of Implant Infection. <i>Chemistry of Materials</i> , 2020 , 32, 7725-7738	9.6	45
141	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
140	Oxygen vacancy engineered SrTiO ₃ nanofibers for enhanced photocatalytic H ₂ production. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17974-17980	13	44

139	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
138	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
137	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
136	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
135	Morphological and Interfacial Engineering of Cobalt-Based Electrocatalysts by Carbon Dots for Enhanced Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 7047-7057	8.3	42
134	Cocktail polyprodrug nanoparticles concurrently release cisplatin and peroxynitrite-generating nitric oxide in cisplatin-resistant cancers. <i>Chemical Engineering Journal</i> , 2020 , 402, 126125	14.7	42
133	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
132	Recent advances in chiral carbonized polymer dots: From synthesis and properties to applications. <i>Nano Today</i> , 2020 , 34, 100953	17.9	41
131	Novel cookie-with-chocolate carbon dots displaying extremely acidophilic high luminescence. <i>Nanoscale</i> , 2014 , 6, 13939-44	7.7	40
130	Magnetron sputtering enabled sustainable synthesis of nanomaterials for energy electrocatalysis. <i>Green Chemistry</i> , 2021 , 23, 2834-2867	10	40
129	Recent Progress in Electrocatalytic Methanation of CO ₂ at Ambient Conditions. <i>Advanced Functional Materials</i> , 2021 , 31, 2009449	15.6	40
128	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
127	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
126	Stable hybrid perovskite MAPb(I _{1-x} Br _x) ₃ for photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2019 , 253, 41-48	21.8	36
125	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
124	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
123	Unified Catalyst for Efficient and Stable Hydrogen Production by Both the Electrolysis of Water and the Hydrolysis of Ammonia Borane. <i>Advanced Sustainable Systems</i> , 2019 , 3, 1800161	5.9	35
122	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

121	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
120	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
119	Green synthesis of nitrogen and sulfur co-doped carbon dots from <i>Allium fistulosum</i> for cell imaging. <i>New Journal of Chemistry</i> , 2019 , 43, 718-723	3.6	33
118	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
117	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
116	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
115	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
114	Rational collaborative ablation of bacterial biofilms ignited by physical cavitation and concurrent deep antibiotic release. <i>Biomaterials</i> , 2020 , 262, 120341	15.6	31
113	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
112	Thermally-assisted photocatalytic CO ₂ reduction to fuels. <i>Chemical Engineering Journal</i> , 2021 , 408, 127280-7	14.7	31
111	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
110	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
109	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
108	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
107	Recent advances in perovskite oxides as electrode materials for supercapacitors. <i>Chemical Communications</i> , 2021 , 57, 2343-2355	5.8	29
106	Palladium Coordination Polymers Nanosheets: New Strategy for Sensitive Photothermal Detection of HS. <i>Analytical Chemistry</i> , 2019 , 91, 10823-10829	7.8	28
105	Core-Shell Heterostructured CuFe@FeFe Prussian Blue Analogue Coupling with Silver Nanoclusters via a One-Step Bioinspired Approach: Efficiently Nonlabeled Aptasensor for Detection of Bleomycin in Various Aqueous Environments. <i>Analytical Chemistry</i> , 2018 , 90, 13624-13631	7.8	28
104	BODIPY@carbon dot nanocomposites for enhanced photodynamic activity. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 1747-1753	7.8	27

103	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
102	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
101	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
100	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
99	Smart Responsive Luminescent Aptamer-Functionalized Covalent Organic Framework Hydrogel for High-Resolution Visualization and Security Protection of Latent Fingerprints. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 44664-44672	9.5	23
98	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
97	Pressure-induced structural transition and band gap evolution of double perovskite CsAgBiBr nanocrystals. <i>Nanoscale</i> , 2019 , 11, 17004-17009	7.7	22
96	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
95	Insights into supramolecular-interaction-regulated piezochromic carbonized polymer dots. <i>Nanoscale</i> , 2019 , 11, 5072-5079	7.7	21
94	Recent advances in supramolecular antidotes. <i>Theranostics</i> , 2021 , 11, 1513-1526	12.1	21
93	Pressure-Induced Emission Enhancements of Mn ²⁺ -Doped Cesium Lead Chloride Perovskite Nanocrystals 2020 , 2, 381-388		20
92	Metal-catalyzed hydrolysis of ammonia borane: Mechanism, catalysts, and challenges. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 30325-30340	6.7	20
91	Advances and challenges in 2D MXenes: From structures to energy storage and conversions. <i>Nano Today</i> , 2021 , 40, 101273	17.9	19
90	Superconductivity in dense carbon-based materials. <i>Physical Review B</i> , 2016 , 93,	3.3	18
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	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
87	Bioorthogonal supramolecular cell-conjugation for targeted hitchhiking drug delivery. <i>Materials Today</i> , 2020 , 40, 9-17	21.8	18
86	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

85	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
84	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
83	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
82	Enhanced electrocatalytic N-to-NH fixation by ZrS nanofibers with a sulfur vacancy. <i>Chemical Communications</i> , 2020 , 56, 14031-14034	5.8	16
81	Efficient carbon-based catalyst derived from natural cattail fiber for hydrogen evolution reaction. <i>Journal of Solid State Chemistry</i> , 2019 , 274, 207-214	3.3	15
80	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
79	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
78	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
77	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
76	Advances in the application of high pressure in carbon dots. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 2617-2626	7.6	14
75	Carbon Dots in Bioimaging, Biosensing and Therapeutics: A Comprehensive Review. <i>Small Science</i> , 2200012		14
74	In Situ Activated Co ₃ Ni _x O ₄ as a Highly Active and Ultrastable Electrocatalyst for Hydrogen Generation. <i>ACS Catalysis</i> , 2021 , 11, 8174-8182	13.1	13
73	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
72	Exploiting Ru-Induced Lattice Strain in CoRu Nanoalloys for Robust Bifunctional Hydrogen Production. <i>Angewandte Chemie</i> , 2021 , 133, 3327-3335	3.6	13
71	Computational Studies on Carbon Dots Electrocatalysis: A Review. <i>Advanced Functional Materials</i> , 2107196	15.6	13
70	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
69	Carbon Dots as New Building Blocks for Electrochemical Energy Storage and Electrocatalysis. <i>Advanced Energy Materials</i> , 2022 , 12, 2103426	21.8	13
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

67	Pressure-Triggered Blue Emission of Zero-Dimensional Organic Bismuth Bromide Perovskite. <i>Advanced Science</i> , 2021 , 8, 2004853	13.6	12
66	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
65	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
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