

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.

203 papers	11,351 citations	56 h-index	102 g-index
220 ext. papers	13,471 ext. citations	11.9 avg, IF	6.49 L-index

#	Paper	IF	Citations
203	Virus-enabled synthesis and assembly of nanowires for lithium ion battery electrodes. <i>Science</i> , 2006 , 312, 885-8	33.3	1654
202	Amino-acid- and peptide-directed synthesis of chiral plasmonic gold nanoparticles. <i>Nature</i> , 2018 , 556, 360-365	50.4	446
201	Free-floating ultrathin two-dimensional crystals from sequence-specific peptoid polymers. <i>Nature Materials</i> , 2010 , 9, 454-60	27	338
200	Photocatalytic hydrogen generation from hydriodic acid using methylammonium lead iodide in dynamic equilibrium with aqueous solution. <i>Nature Energy</i> , 2017 , 2,	62.3	301
199	Spontaneous assembly of viruses on multilayered polymer surfaces. <i>Nature Materials</i> , 2006 , 5, 234-40	27	285
198	Coordination tuning of cobalt phosphates towards efficient water oxidation catalyst. <i>Nature Communications</i> , 2015 , 6, 8253	17.4	283
197	Reversible and cooperative photoactivation of single-atom Cu/TiO photocatalysts. <i>Nature Materials</i> , 2019 , 18, 620-626	27	275
196	Hydrated manganese(II) phosphate ($Mn_2(PO_4)_2 \cdot 4H_2O$) as a water oxidation catalyst. <i>Journal of the American Chemical Society</i> , 2014 , 136, 7435-43	16.4	266
195	Organolead Halide Perovskites for Low Operating Voltage Multilevel Resistive Switching. <i>Advanced Materials</i> , 2016 , 28, 6562-7	24	219
194	Concave Rhombic Dodecahedral Au Nanocatalyst with Multiple High-Index Facets for CO ₂ Reduction. <i>ACS Nano</i> , 2015 , 9, 8384-93	16.7	199
193	Morphology-Directed Selective Production of Ethylene or Ethane from CO on a Cu Mesopore Electrode. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 796-800	16.4	183
192	Wafer-scale transferable molybdenum disulfide thin-film catalysts for photoelectrochemical hydrogen production. <i>Energy and Environmental Science</i> , 2016 , 9, 2240-2248	35.4	150
191	Epidermal devices for noninvasive, precise, and continuous mapping of macrovascular and microvascular blood flow. <i>Science Advances</i> , 2015 , 1, e1500701	14.3	145
190	Selective Electrochemical Production of Formate from Carbon Dioxide with Bismuth-Based Catalysts in an Aqueous Electrolyte. <i>ACS Catalysis</i> , 2018 , 8, 931-937	13.1	132
189	Stamped microbattery electrodes based on self-assembled M13 viruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 17227-31	11.5	127
188	Peptide-mediated reduction of silver ions on engineered biological scaffolds. <i>ACS Nano</i> , 2008 , 2, 1480-6	16.7	127
187	Subwavelength light focusing using random nanoparticles. <i>Nature Photonics</i> , 2013 , 7, 454-458	33.9	125

186	Dielectric Meta-Holograms Enabled with Dual Magnetic Resonances in Visible Light. <i>ACS Nano</i> , 2017 , 11, 9382-9389	16.7	122
185	Synthesis and microcontact printing of dual end-functionalized mucin-like glycopolymers for microarray applications. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4973-6	16.4	121
184	N-doped monolayer graphene catalyst on silicon photocathode for hydrogen production. <i>Energy and Environmental Science</i> , 2013 , 6, 3658	35.4	119
183	Layer-by-Layer Surface Modification and Patterned Electrostatic Deposition of Quantum Dots. <i>Nano Letters</i> , 2004 , 4, 1421-1425	11.5	118
182	A new water oxidation catalyst: lithium manganese pyrophosphate with tunable Mn valency. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4201-11	16.4	116
181	A new hematite photoanode doping strategy for solar water splitting: oxygen vacancy generation. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 2117-24	3.6	115
180	N-doped graphene quantum sheets on silicon nanowire photocathodes for hydrogen production. <i>Energy and Environmental Science</i> , 2015 , 8, 1329-1338	35.4	113
179	Redox cofactor from biological energy transduction as molecularly tunable energy-storage compound. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8322-8	16.4	113
178	Defining a Materials Database for the Design of Copper Binary Alloy Catalysts for Electrochemical CO Conversion. <i>Advanced Materials</i> , 2018 , 30, e1704717	24	110
177	Mn5O8 Nanoparticles as Efficient Water Oxidation Catalysts at Neutral pH. <i>ACS Catalysis</i> , 2015 , 5, 4624-4628	16.28	109
176	Revisiting whitlockite, the second most abundant biomineral in bone: nanocrystal synthesis in physiologically relevant conditions and biocompatibility evaluation. <i>ACS Nano</i> , 2014 , 8, 634-41	16.7	103
175	Mechanistic Investigation of Water Oxidation Catalyzed by Uniform, Assembled MnO Nanoparticles. <i>Journal of the American Chemical Society</i> , 2017 , 139, 2277-2285	16.4	102
174	One-step synthesis of N-doped graphene quantum sheets from monolayer graphene by nitrogen plasma. <i>Advanced Materials</i> , 2014 , 26, 3501-5	24	98
173	Achieving highly efficient CO ₂ to CO electroreduction exceeding 300 mA cm ⁻² with single-atom nickel electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10651-10661	13	97
172	"Crypto-Display" in Dual-Mode Metasurfaces by Simultaneous Control of Phase and Spectral Responses. <i>ACS Nano</i> , 2018 , 12, 6421-6428	16.7	94
171	Partially Oxidized Sub-10 nm MnO Nanocrystals with High Activity for Water Oxidation Catalysis. <i>Scientific Reports</i> , 2015 , 5, 10279	4.9	90
170	Genetically Driven Assembly of Nanorings Based on the M13 Virus. <i>Nano Letters</i> , 2004 , 4, 23-27	11.5	89
169	Nano-hydroxyapatite modulates osteoblast lineage commitment by stimulation of DNA methylation and regulation of gene expression. <i>Biomaterials</i> , 2015 , 65, 32-42	15.6	86

168	Outfitting Next Generation Displays with Optical Metasurfaces. <i>ACS Photonics</i> , 2018 , 5, 3876-3895	6.3	85
167	BMHP1-derived self-assembling peptides: hierarchically assembled structures with self-healing propensity and potential for tissue engineering applications. <i>ACS Nano</i> , 2011 , 5, 1845-59	16.7	84
166	Current Status and Bioinspired Perspective of Electrochemical Conversion of CO to a Long-Chain Hydrocarbon. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 538-545	6.4	83
165	New challenges of electrokinetic studies in investigating the reaction mechanism of electrochemical CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 14043-14057	13	83
164	Tyrosine-mediated two-dimensional peptide assembly and its role as a bio-inspired catalytic scaffold. <i>Nature Communications</i> , 2014 , 5, 3665	17.4	83
163	Theoretical and Experimental Studies of Epidermal Heat Flux Sensors for Measurements of Core Body Temperature. <i>Advanced Healthcare Materials</i> , 2016 , 5, 119-27	10.1	83
162	Biomimetic whitlockite inorganic nanoparticles-mediated in situ remodeling and rapid bone regeneration. <i>Biomaterials</i> , 2017 , 112, 31-43	15.6	82
161	Chondroitin Sulfate-Based Biomineralizing Surface Hydrogels for Bone Tissue Engineering. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 21639-21650	9.5	78
160	In Vitro and In Vivo Evaluation of Whitlockite Biocompatibility: Comparative Study with Hydroxyapatite and Tricalcium Phosphate. <i>Advanced Healthcare Materials</i> , 2016 , 5, 128-36	10.1	78
159	Solar Water Splitting: Efficient Water Splitting Cascade Photoanodes with Ligand-Engineered MnO Cocatalysts (Adv. Sci. 10/2018). <i>Advanced Science</i> , 2018 , 5, 1870061	13.6	78
158	A ferroelectric photocatalyst for enhancing hydrogen evolution: polarized particulate suspension. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 10408-13	3.6	74
157	Folding of a single-chain, information-rich polypeptoid sequence into a highly ordered nanosheet. <i>Biopolymers</i> , 2011 , 96, 586-95	2.2	74
156	Controlling surface mobility in interdiffusing polyelectrolyte multilayers. <i>ACS Nano</i> , 2008 , 2, 561-71	16.7	73
155	An iron oxide photoanode with hierarchical nanostructure for efficient water oxidation. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 2297-2305	13	68
154	Pragmatic Metasurface Hologram at Visible Wavelength: The Balance between Diffraction Efficiency and Fabrication Compatibility. <i>ACS Photonics</i> , 2018 , 5, 1643-1647	6.3	66
153	Graphene Quantum Sheet Catalyzed Silicon Photocathode for Selective CO ₂ Conversion to CO. <i>Advanced Functional Materials</i> , 2016 , 26, 233-242	15.6	66
152	Solvent-assisted patterning of polyelectrolyte multilayers and selective deposition of virus assemblies. <i>Nano Letters</i> , 2008 , 8, 1081-9	11.5	62
151	Highly Stretchable and Notch-Insensitive Hydrogel Based on Polyacrylamide and Milk Protein. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 29220-29226	9.5	60

150	Full-field subwavelength imaging using a scattering superlens. <i>Physical Review Letters</i> , 2014 , 113, 113901.4	7.4	58
149	Amorphous Cobalt Phyllosilicate with Layered Crystalline Motifs as Water Oxidation Catalyst. <i>Advanced Materials</i> , 2017 , 29, 1606893	24	57
148	Arginine-Presenting Peptide Hydrogels Decorated with Hydroxyapatite as Biomimetic Scaffolds for Bone Regeneration. <i>Biomacromolecules</i> , 2017 , 18, 3541-3550	6.9	57
147	Thermal transport characteristics of human skin measured in vivo using ultrathin conformal arrays of thermal sensors and actuators. <i>PLoS ONE</i> , 2015 , 10, e0118131	3.7	55
146	Reaction Mechanisms of the Electrochemical Conversion of Carbon Dioxide to Formic Acid on Tin Oxide Electrodes. <i>ChemElectroChem</i> , 2017 , 4, 2130-2136	4.3	54
145	Cysteine-encoded chirality evolution in plasmonic rhombic dodecahedral gold nanoparticles. <i>Nature Communications</i> , 2020 , 11, 263	17.4	54
144	Hybrid Z-Scheme Using Photosystem I and BiVO ₄ for Hydrogen Production. <i>Advanced Functional Materials</i> , 2015 , 25, 2369-2377	15.6	53
143	Plasmonic metamaterials for chiral sensing applications. <i>Nanoscale</i> , 2020 , 12, 58-66	7.7	52
142	Nanostructural dependence of hydrogen production in silicon photocathodes. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5414	13	51
141	Chemically Deposited Amorphous Zn-Doped NiFeOxHy for Enhanced Water Oxidation. <i>ACS Catalysis</i> , 2020 , 10, 235-244	13.1	50
140	Extended gold nano-morphology diagram: synthesis of rhombic dodecahedra using CTAB and ascorbic acid. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 6861	7.1	48
139	Catalytic synergy effect of MoS ₂ /reduced graphene oxide hybrids for a highly efficient hydrogen evolution reaction. <i>RSC Advances</i> , 2017 , 7, 5480-5487	3.7	47
138	Tyrosine-Rich Peptides as a Platform for Assembly and Material Synthesis. <i>Advanced Science</i> , 2019 , 6, 1801255	13.6	47
137	Cyclic two-step electrolysis for stable electrochemical conversion of carbon dioxide to formate. <i>Nature Communications</i> , 2019 , 10, 3919	17.4	45
136	Hybrid system of semiconductor and photosynthetic protein. <i>Nanotechnology</i> , 2014 , 25, 342001	3.4	45
135	Stretching-Induced Growth of PEDOT-Rich Cores: A New Mechanism for Strain-Dependent Resistivity Change in PEDOT:PSS Films. <i>Advanced Functional Materials</i> , 2013 , 23, 4020-4027	15.6	45
134	Phase transformation from hydroxyapatite to the secondary bone mineral, whitlockite. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 1342-1349	7.3	44
133	Tunable Metasurfaces: Kerker-Conditioned Dynamic Cryptographic Nanoprints (Advanced Optical Materials 4/2019). <i>Advanced Optical Materials</i> , 2019 , 7, 1970016	8.1	42

132	Fatigue-free, electrically reliable copper electrode with nanohole array. <i>Small</i> , 2012 , 8, 3300-6	11	42
131	Manganese oxide-based heterogeneous electrocatalysts for water oxidation. <i>Energy and Environmental Science</i> , 2020 , 13, 2310-2340	35.4	41
130	A wafer-scale antireflective protection layer of solution-processed TiO ₂ nanorods for high performance silicon-based water splitting photocathodes. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 9477-9485	13.485	41
129	Geometric metasurface enabling polarization independent beam splitting. <i>Scientific Reports</i> , 2018 , 8, 9468	4.9	40
128	Tris(2-benzimidazolylmethyl)amine-Directed Synthesis of Single-Atom Nickel Catalysts for Electrochemical CO Production from CO. <i>Chemistry - A European Journal</i> , 2018 , 24, 18444-18454	4.8	40
127	Design Principle and Loss Engineering for Photovoltaic-Electrolysis Cell System. <i>ACS Omega</i> , 2017 , 2, 1009-1018	3.9	39
126	Improved diffusion barrier by stuffing the grain boundaries of TiN with a thin Al interlayer for Cu metallization. <i>Applied Physics Letters</i> , 2001 , 79, 2549-2551	3.4	39
125	Sulfur-Modified Graphitic Carbon Nitride Nanostructures as an Efficient Electrocatalyst for Water Oxidation. <i>Small</i> , 2017 , 13, 1603893	11	38
124	Mechanistic Investigation of Biomass Oxidation Using Nickel Oxide Nanoparticles in a CO-Saturated Electrolyte for Paired Electrolysis. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 2941-2948	6.4	36
123	Chiral Scatterometry on Chemically Synthesized Single Plasmonic Nanoparticles. <i>ACS Nano</i> , 2019 , 13, 8659-8668	16.7	36
122	Virus templated gold nanocube chain for SERS nanoprobe. <i>Small</i> , 2014 , 10, 3007-11	11	36
121	Kerker-Conditioned Dynamic Cryptographic Nanoprints. <i>Advanced Optical Materials</i> , 2018 , 7, 1801070	8.1	35
120	Morphology-Directed Selective Production of Ethylene or Ethane from CO ₂ on a Cu Mesopore Electrode. <i>Angewandte Chemie</i> , 2017 , 129, 814-818	3.6	34
119	Angle-resolved light scattering of individual rod-shaped bacteria based on Fourier transform light scattering. <i>Scientific Reports</i> , 2014 , 4, 5090	4.9	34
118	Biomolecule-Enabled Chiral Assembly of Plasmonic Nanostructures. <i>ChemNanoMat</i> , 2017 , 3, 685-697	3.5	34
117	Electric-Field-Assisted Layer-by-Layer Assembly of Weakly Charged Polyelectrolyte Multilayers. <i>Macromolecules</i> , 2011 , 44, 2866-2872	5.5	34
116	Water-Floating Giant Nanosheets from Helical Peptide Pentamers. <i>ACS Nano</i> , 2016 , 10, 8263-70	16.7	33
115	Wavelength-decoupled geometric metasurfaces by arbitrary dispersion control. <i>Communications Physics</i> , 2019 , 2,	5.4	33

114	Chiral Surface and Geometry of Metal Nanocrystals. <i>Advanced Materials</i> , 2020 , 32, e1905758	24	33
113	Uniform, Assembled 4 nm Mn ₃ O ₄ Nanoparticles as Efficient Water Oxidation Electrocatalysts at Neutral pH. <i>Advanced Functional Materials</i> , 2020 , 30, 1910424	15.6	32
112	Enhanced performance of NaTaO ₃ using molecular co-catalyst [Mo ₃ S ₄] ⁴⁺ for water splitting into H ₂ and O ₂ . <i>Chemical Communications</i> , 2012 , 48, 10452-4	5.8	32
111	Protein/peptide based nanomaterials for energy application. <i>Current Opinion in Biotechnology</i> , 2013 , 24, 599-605	11.4	31
110	Revealing Structural Disorder in Hydrogenated Amorphous Silicon for a Low-Loss Photonic Platform at Visible Frequencies. <i>Advanced Materials</i> , 2021 , 33, e2005893	24	31
109	Uniform Chiral Gap Synthesis for High Dissymmetry Factor in Single Plasmonic Gold Nanoparticle. <i>ACS Nano</i> , 2020 , 14, 3595-3602	16.7	28
108	p-Type CuBi ₂ O ₄ thin films prepared by flux-mediated one-pot solution process with improved structural and photoelectrochemical characteristics. <i>Materials Letters</i> , 2017 , 188, 192-196	3.3	27
107	Active Color Control in a Metasurface by Polarization Rotation. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 982	2.6	27
106	Synthetic Mechanism Discovery of Monophase Cuprous Oxide for Record High Photoelectrochemical Conversion of CO to Methanol in Water. <i>ACS Nano</i> , 2018 , 12, 8187-8196	16.7	24
105	Growth Mechanism of Strain-Dependent Morphological Change in PEDOT:PSS Films. <i>Scientific Reports</i> , 2016 , 6, 25332	4.9	22
104	Redox Cofactor from Biological Energy Transduction as Molecularly Tunable Energy-Storage Compound. <i>Angewandte Chemie</i> , 2013 , 125, 8480-8486	3.6	22
103	Electrocatalytic Reduction of CO to Ethylene by Molecular Cu-Complex Immobilized on Graphitized Mesoporous Carbon. <i>Small</i> , 2020 , 16, e2000955	11	21
102	Metasurface zone plate for light manipulation in vectorial regime. <i>Communications Physics</i> , 2019 , 2,	5.4	21
101	Bioinspired Toolkit Based on Intermolecular Encoder toward Evolutionary 4D Chiral Plasmonic Materials. <i>Accounts of Chemical Research</i> , 2019 , 52, 2768-2783	24.3	20
100	Efficient Water Splitting Cascade Photoanodes with Ligand-Engineered MnO Cocatalysts. <i>Advanced Science</i> , 2018 , 5, 1800727	13.6	20
99	Multilayer diffusion barrier for copper metallization using a thin interlayer metal (M=Ru, Cr, and Zr) between two TiN films. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2003 , 21, 804		20
98	Electrochemical C-N Bond Formation for Sustainable Amine Synthesis. <i>Trends in Chemistry</i> , 2020 , 2, 1004-1009	10.89	20
97	Involvement of high-valent manganese-oxo intermediates in oxidation reactions: realisation in nature, nano and molecular systems. <i>Nano Convergence</i> , 2018 , 5, 18	9.2	20

96	Optimization of Al interlayer thickness for the multilayer diffusion barrier scheme in Cu metallization. <i>Journal of Applied Physics</i> , 2002 , 92, 1099-1105	2.5	19
95	Plasmon Enhanced Fluorescence Based on Porphyrin-Peptoid Hybridized Gold Nanoparticle Platform. <i>Small</i> , 2017 , 13, 1700071	11	18
94	Mechanistic Investigation with Kinetic Parameters on Water Oxidation Catalyzed by Manganese Oxide Nanoparticle Film. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 10595-10604	8.3	18
93	Identifying peptide sequences that can control the assembly of gold nanostructures. <i>Molecular Systems Design and Engineering</i> , 2018 , 3, 581-590	4.6	18
92	Enhanced conductivity of solution-processed indium tin oxide nanoparticle films by oxygen partial pressure controlled annealing. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 5953	7.1	18
91	Self-assembled magnetic nanospheres with three-dimensional magnetic vortex. <i>Applied Physics Letters</i> , 2014 , 105, 232402	3.4	18
90	Water Oxidation Mechanism for 3d Transition Metal Oxide Catalysts under Neutral Condition. <i>Journal of the Korean Ceramic Society</i> , 2017 , 54, 1-8	2.2	18
89	Highly Active MnO Catalysts Integrated onto Fe ₂ O ₃ Nanorods for Efficient Water Splitting. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600176	4.6	18
88	Recent advances and perspectives of halide perovskite photocatalyst. <i>Current Opinion in Electrochemistry</i> , 2018 , 11, 98-104	7.2	18
87	Cysteine Induced Chiral Morphology in Palladium Nanoparticle. <i>Particle and Particle Systems Characterization</i> , 2019 , 36, 1900062	3.1	17
86	Importance of Entropic Contribution to Electrochemical Water Oxidation Catalysis. <i>ACS Energy Letters</i> , 2019 , 4, 1918-1929	20.1	17
85	Proton Conduction in a Tyrosine-Rich Peptide/Manganese Oxide Hybrid Nanofilm. <i>Advanced Functional Materials</i> , 2017 , 27, 1702185	15.6	17
84	Rise of nano effects in electrode during electrocatalytic CO conversion. <i>Nanotechnology</i> , 2017 , 28, 3520014	9.4	17
83	Failure mechanism of a multilayer (TiN/Al/TiN) diffusion barrier between copper and silicon. <i>Journal of Applied Physics</i> , 2002 , 92, 5512-5519	2.5	17
82	Capturing Manganese Oxide Intermediates in Electrochemical Water Oxidation at Neutral pH by In Situ Raman Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 4673-4681	16.4	17
81	Single Nanoparticle Chiroptics in a Liquid: Optical Activity in Hyper-Rayleigh Scattering from Au Helicoids. <i>Nano Letters</i> , 2020 , 20, 5792-5798	11.5	16
80	Nickel-Doping Effect on Mn ₃ O ₄ Nanoparticles for Electrochemical Water Oxidation under Neutral Condition. <i>Small Methods</i> , 2020 , 4, 1900733	12.8	16
79	Self-assembly of "S-bilayers", a step toward expanding the dimensionality of S-layer assemblies. <i>ACS Nano</i> , 2013 , 7, 4946-53	16.7	16

78	Hierarchical carbon-silicon nanowire heterostructures for the hydrogen evolution reaction. <i>Nanoscale</i> , 2018 , 10, 13936-13941	7.7	16
77	Double-Layer Graphene Outperforming Monolayer as Catalyst on Silicon Photocathode for Hydrogen Production. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 3570-3580	9.5	15
76	Chirality control of inorganic materials and metals by peptides or amino acids. <i>Materials Advances</i> , 2020 , 1, 512-524	3.3	15
75	Glutamylcysteine- and Cysteinyglycine-Directed Growth of Chiral Gold Nanoparticles and their Crystallographic Analysis. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 12976-12983	16.4	15
74	Defect-engineered MoS ₂ with extended photoluminescence lifetime for high-performance hydrogen evolution. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 10173-10178	7.1	15
73	Highly Selective Active Chlorine Generation Electrocatalyzed by CoO Nanoparticles: Mechanistic Investigation through in Situ Electrokinetic and Spectroscopic Analyses. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 1226-1233	6.4	15
72	Physically Transient Field-Effect Transistors Based on Black Phosphorus. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42630-42636	9.5	15
71	Importance of Interfacial Band Structure between the Substrate and Mn ₃ O ₄ Nanocatalysts during Electrochemical Water Oxidation. <i>ACS Catalysis</i> , 2020 , 10, 1237-1245	13.1	14
70	Electronic interaction between transition metal single-atoms and anatase TiO ₂ boosts CO ₂ photoreduction with H ₂ O. <i>Energy and Environmental Science</i> ,	35.4	14
69	Tailoring a Tyrosine-Rich Peptide into Size- and Thickness-Controllable Nanofilms. <i>ACS Omega</i> , 2018 , 3, 3901-3907	3.9	13
68	Material science lesson from the biological photosystem. <i>Nano Convergence</i> , 2016 , 3, 19	9.2	12
67	Spontaneously polarized lithium-doped zinc oxide nanowires as photoanodes for electrical water splitting. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 3223-3227	13	12
66	Proton-enabled activation of peptide materials for biological bimodal memory. <i>Nature Communications</i> , 2020 , 11, 5896	17.4	12
65	Hierarchically Structured Fe ₃ O ₄ Nanoparticles for High-Performance Magnetorheological Fluids with Long-Term Stability. <i>ACS Applied Nano Materials</i> , 2020 , 3, 10931-10940	5.6	12
64	Controlled Molybdenum Disulfide Assembly inside Carbon Nanofiber by Boudouard Reaction Inspired Selective Carbon Oxidation. <i>Advanced Materials</i> , 2017 , 29, 1605327	24	11
63	Methylamine Treated Mn ₃ O ₄ Nanoparticles as a Highly Efficient Water Oxidation Catalyst under Neutral Condition. <i>ChemCatChem</i> , 2019 , 11, 1665-1672	5.2	11
62	Biofunctionalized ceramic with self-assembled networks of nanochannels. <i>ACS Nano</i> , 2015 , 9, 4447-57	16.7	11
61	Electrochemical Selective Hydrocarboxylation of Styrene Using CO and Water. <i>Advanced Science</i> , 2020 , 7, 1900137	13.6	11

60	Redox-Active Tyrosine-Mediated Peptide Template for Large-Scale Single-Crystalline Two-Dimensional Silver Nanosheets. <i>ACS Nano</i> , 2020 , 14, 1738-1744	16.7	10
59	Chiral 432 Helicoid II Nanoparticle Synthesized with Glutathione and Poly(T)20 Nucleotide. <i>ChemNanoMat</i> , 2020 , 6, 362-367	3.5	10
58	Size-controllable and uniform gold bumpy nanocubes for single-particle-level surface-enhanced Raman scattering sensitivity. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 9044-9051	3.6	9
57	Anion Extraction-Induced Polymorph Control of Transition Metal Dichalcogenides. <i>Nano Letters</i> , 2019 , 19, 8644-8652	11.5	9
56	A Single Chiral Nanoparticle Induced Valley Polarization Enhancement. <i>Small</i> , 2020 , 16, e2003005	11	9
55	Redox-neutral electrochemical conversion of CO ₂ to dimethyl carbonate. <i>Nature Energy</i> ,	62.3	9
54	High-Density Single-Layer Coating of Gold Nanoparticles onto Multiple Substrates by Using an Intrinsically Disordered Protein of β -Synuclein for Nanoapplications. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8519-8532	9.5	8
53	Hydrogen Production via Water Electrolysis: The Benefits of a Solar Cell-Powered Process. <i>IEEE Electrification Magazine</i> , 2018 , 6, 19-25	2.6	8
52	Metal Halide Perovskites for Solar Fuel Production and Photoreactions. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 8292-8301	6.4	8
51	A tyrosine-rich peptide induced flower-like palladium nanostructure and its catalytic activity. <i>RSC Advances</i> , 2015 , 5, 78026-78029	3.7	7
50	Spectroscopic capture of a low-spin Mn(IV)-oxo species in Ni-MnO nanoparticles during water oxidation catalysis. <i>Nature Communications</i> , 2020 , 11, 5230	17.4	7
49	Vitamin B12-Immobilized Graphene Oxide for Efficient Electrocatalytic Carbon Dioxide Reduction Reaction. <i>ChemSusChem</i> , 2020 , 13, 5620-5624	8.3	7
48	Demonstration of the nanosize effect of carbon nanomaterials on the dehydrogenation temperature of ammonia borane. <i>Nanoscale Advances</i> , 2019 , 1, 4697-4703	5.1	7
47	Tyrosyltyrosylcysteine-Directed Synthesis of Chiral Cobalt Oxide Nanoparticles and Peptide Conformation Analysis. <i>ACS Nano</i> , 2021 , 15, 979-988	16.7	7
46	Invited paper: Application of chitin and Chitosan toward electrochemical hybrid device. <i>Electronic Materials Letters</i> , 2011 , 7, 13-16	2.9	6
45	Recent advances in heterogeneous Mn-based electrocatalysts toward biological photosynthetic Mn ₄ Ca cluster. <i>Catalysis Today</i> , 2020 , 353, 232-241	5.3	6
44	Effects of proton conduction on dielectric properties of peptides.. <i>RSC Advances</i> , 2018 , 8, 34047-34055	3.7	6
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