

# Yusuke Yamauchi

## List of Publications by Year in descending order

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1,035  
papers

78,048  
citations

315

138  
h-index

1310

224  
g-index

1080  
all docs

1080  
docs citations

1080  
times ranked

50229  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanomaterials for sustainable remediation of chemical contaminants in water and soil. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 2611-2660.	6.6	45
2	Super-theoretical capacity mechanism of hollow nano-corn cob-like cobalt oxide. <i>Chemical Engineering Journal</i> , 2022, 430, 132700.	6.6	9
3	Nanoarchitectonics of Metal-Organic Frameworks for Capacitive Deionization via Controlled Pyrolyzed Approaches. <i>Small</i> , 2022, 18, e2102477.	5.2	35
4	Progress in Solid Polymer Electrolytes for Lithium-Ion Batteries and Beyond. <i>Small</i> , 2022, 18, e2103617.	5.2	107
5	Flexible organohydrogel ionic skin with Ultra-Low temperature freezing resistance and Ultra-Durable moisture retention. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 396-404.	5.0	37
6	Gram-Scale production of Cu <sub>3</sub> P-Cu <sub>2</sub> O Janus nanoparticles into nitrogen and phosphorous doped porous carbon framework as bifunctional electrocatalysts for overall water splitting. <i>Chemical Engineering Journal</i> , 2022, 427, 130946.	6.6	88
7	Nanoarchitectonics from 2D to 3D: MXenes-derived nitrogen-doped 3D nanofibrous architecture for extraordinarily-fast capacitive deionization. <i>Chemical Engineering Journal</i> , 2022, 430, 133161.	6.6	109
8	Material Evolution with Nanotechnology, Nanoarchitectonics, and Materials Informatics: What will be the Next Paradigm Shift in Nanoporous Materials?. <i>Advanced Materials</i> , 2022, 34, e2107212.	11.1	81
9	Transforming red mud into an efficient Acid-Base catalyst by hybridization with mesoporous ZSM-5 for Co-pyrolysis of biomass and plastics. <i>Chemical Engineering Journal</i> , 2022, 430, 132965.	6.6	24
10	Macroscopic MOF Architectures: Effective Strategies for Practical Application in Water Treatment. <i>Small</i> , 2022, 18, e2104387.	5.2	94
11	Eliminating tetracycline antibiotics matrix via photoactivated sulfate radical-based advanced oxidation process over the immobilized MIL-88A: Batch and continuous experiments. <i>Chemical Engineering Journal</i> , 2022, 431, 133213.	6.6	39
12	Defect engineering induced heterostructure of Zn-birnessite@spinel ZnMn <sub>2</sub> O <sub>4</sub> nanocrystal for flexible asymmetric supercapacitor. <i>Chemical Engineering Journal</i> , 2022, 430, 133115.	6.6	32
13	Borophene: Two-dimensional Boron Monolayer: Synthesis, Properties, and Potential Applications. <i>Chemical Reviews</i> , 2022, 122, 1000-1051.	23.0	106
14	Phase engineering of dual active 2D Bi <sub>2</sub> O <sub>3</sub> -based nanocatalysts for alkaline hydrogen evolution reaction electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2022, 10, 808-817.	5.2	10
15	Highly adhesive and disposable inorganic barrier films: made from 2D silicate nanosheets and water. <i>Journal of Materials Chemistry A</i> , 2022, 10, 1956-1964.	5.2	1
16	Realizing Superior Redox Kinetics of Hollow Bimetallic Sulfide Nanoarchitectures by Defect-Induced Manipulation toward Flexible Solid-State Supercapacitors. <i>Small</i> , 2022, 18, e2104507.	5.2	85
17	Material Nanoarchitectonics of Functional Polymers and Inorganic Nanomaterials for Smart Supercapacitors. <i>Small</i> , 2022, 18, e2102397.	5.2	22
18	Nanoarchitectonics of low-dimensional metal-organic frameworks toward photo/electrochemical CO <sub>2</sub> reduction reactions. <i>Journal of CO<sub>2</sub> Utilization</i> , 2022, 57, 101883.	3.3	36

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19	Materials informatics-guided superior electrocatalyst: A case of pyrolysis-free single-atom coordinated with N-graphene nanomesh. <i>Nano Energy</i> , 2022, 94, 106868.	8.2	31
20	Î <sup>+</sup> -Carrageenan Gel Modified Mesoporous Gold Chronocoulometric Sensor for Ultrasensitive Detection of MicroRNA. <i>Bulletin of the Chemical Society of Japan</i> , 2022, 95, 198-207.	2.0	10
21	Performance enhancement strategies for surface plasmon resonance sensors in direct glucose detection using pristine and modified UiO-66: effects of morphology, immobilization technique, and signal amplification. <i>Journal of Materials Chemistry A</i> , 2022, 10, 6662-6678.	5.2	19
22	Tailoring the Structure of Chitosan-Based Porous Carbon Nanofiber Architectures toward Efficient Capacitive Charge Storage and Capacitive Deionization. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 4004-4021.	4.0	31
23	MgB <sub>2</sub> Superconducting Joint Architecture with the Functionality to Screen External Magnetic Fields for MRI Magnet Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 3418-3426.	4.0	8
24	Ultrathin nanosheet-assembled nickel-based metal-organic framework microflowers for supercapacitor applications. <i>Chemical Communications</i> , 2022, 58, 1009-1012.	2.2	68
25	Efficient lithium-ion storage using a heterostructured porous carbon framework and its <i>in situ</i> transmission electron microscopy study. <i>Chemical Communications</i> , 2022, 58, 863-866.	2.2	42
26	Engineering Stress in Thin Films: An Innovative Pathway Toward 3D Micro and Nanosystems (Small) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	9.2	0
27	Microwave one-pot synthesis of CNT-supported amorphous Ni-P alloy nanoparticles with enhanced hydrogenation performance. <i>Journal of Materials Chemistry A</i> , 2022, 10, 6560-6568.	5.2	10
28	2D boron nanosheet architectonics: opening new territories by smart functionalization. <i>Journal of Materials Chemistry A</i> , 2022, 10, 2736-2750.	5.2	12
29	Plasma-Induced Nanocrystalline Domain Engineering and Surface Passivation in Mesoporous Chalcogenide Semiconductor Thin Films. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	8
30	Metal-Organic Frameworks: A Robust Platform for Creating Nanoarchitected Carbon Materials. <i>Accounts of Materials Research</i> , 2022, 3, 426-438.	5.9	15
31	A General Concurrent Template Strategy for Ordered Mesoporous Intermetallic Nanoparticles with Controllable Catalytic Performance. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	3
32	Cu-based MOF-derived architecture with Cu/Cu <sub>2</sub> O nanospheres anchored on porous carbon nanosheets for efficient capacitive deionization. <i>Environmental Research</i> , 2022, 210, 112909.	3.7	11
33	Fullerphene Nanosheets: A Bottom-Up 2D Material for Single-Carbon-Atom-Level Molecular Discrimination. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	19
34	A General Concurrent Template Strategy for Ordered Mesoporous Intermetallic Nanoparticles with Controllable Catalytic Performance. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	35
35	Tailoring the Surface and Interface Structures of Copper-Based Catalysts for Electrochemical Reduction of CO <sub>2</sub> to Ethylene and Ethanol. <i>Small</i> , 2022, 18, e2107450.	5.2	87
36	Prussian blue analogue derived cobalt-nickel phosphide/carbon nanotube composite as electrocatalyst for efficient and stable hydrogen evolution reaction in wide-pH environment. <i>Journal of Colloid and Interface Science</i> , 2022, 616, 210-220.	5.0	49

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37	MoS <sub>2</sub> nanosheets with expanded interlayer spacing for ultra-stable aqueous Mg-ion hybrid supercapacitor. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 1666-1673.	3.0	16
38	Heterointerface optimization in a covalent organic framework-on-MXene for high-performance capacitive deionization of oxygenated saline water. <i>Materials Horizons</i> , 2022, 9, 1708-1716.	6.4	82
39	Ru ions enhancing the interface bonding between the Pt nanoparticle catalyst and perovskite support for super anti-sintering performance. <i>Journal of Materials Chemistry A</i> , 2022, 10, 8227-8237.	5.2	2
40	Mesoporous PdBi nanocages for enhanced electrocatalytic performances by all-direction accessibility and steric site activation. <i>Chemical Science</i> , 2022, 13, 3819-3825.	3.7	26
41	MXene Nanoarchitectonics: Defect-Engineered 2D MXenes towards Enhanced Electrochemical Water Splitting. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	125
42	Boosting capacitive performance of manganese oxide nanorods by decorating with three-dimensional crushed graphene. <i>Nano Convergence</i> , 2022, 9, 10.	6.3	23
43	Molecular-Scale Manipulation of Layer Sequence in Heteroassembled Nanosheet Films toward Oxygen Evolution Electrocatalysts. <i>ACS Nano</i> , 2022, 16, 4028-4040.	7.3	29
44	Heterocyclic Conjugated Polymer Nanoarchitectonics with Synergistic Redox-Active Sites for High-Performance Aluminium Organic Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	27
45	Current Progress and Scalable Approach toward the Synthesis of 2D Metal-Organic Frameworks. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	9
46	Heterocyclic Conjugated Polymer Nanoarchitectonics with Synergistic Redox-Active Sites for High-Performance Aluminium Organic Batteries. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	4
47	Significant effect of synthesis methodologies of metal-organic frameworks upon the additively manufactured dual-mode triboelectric nanogenerator towards self-powered applications. <i>Nano Energy</i> , 2022, 98, 107253.	8.2	30
48	Nanoarchitectonics of MXene/semiconductor heterojunctions toward artificial photosynthesis via photocatalytic CO <sub>2</sub> reduction. <i>Coordination Chemistry Reviews</i> , 2022, 459, 214440.	9.5	97
49	MOF-on-MOF nanoarchitectures for selectively functionalized nitrogen-doped carbon-graphitic carbon/carbon nanotubes heterostructure with high capacitive deionization performance. <i>Nano Energy</i> , 2022, 97, 107146.	8.2	106
50	Engineering Stress in Thin Films: An Innovative Pathway Toward 3D Micro and Nanosystems. <i>Small</i> , 2022, 18, 2105748.	5.2	6
51	Nanoarchitectonics for Abuse-Drug Biosensors. <i>Small</i> , 2022, 18, e2104847.	5.2	14
52	Zwitterionic iodonium species afford halogen bond-based porous organic frameworks. <i>Chemical Science</i> , 2022, 13, 5650-5658.	3.7	16
53	Fullerphene Nanosheets: A Bottom-Up 2D Material for Single-Carbon-Atom-Level Molecular Discrimination ( <i>Adv. Mater. Interfaces</i> 11/2022). <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	0
54	Ultra-stable sodium ion storage of biomass porous carbon derived from sugarcane. <i>Chemical Engineering Journal</i> , 2022, 445, 136344.	6.6	56

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55	Electrochemical preparation of nano/micron structure transition metal-based catalysts for the oxygen evolution reaction. <i>Materials Horizons</i> , 2022, 9, 1788-1824.	6.4	32
56	Atomic-Level Platinum Filling into Ni Vacancies of Dual-Deficient NiO for Boosting Electrocatalytic Hydrogen Evolution. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	110
57	Daylight-Driven Rechargeable TiO <sub>2</sub> Nanocatalysts Suppress Wheat Blast Caused by <i>Magnaporthe oryzae</i> <i>Triticum</i> . <i>Bulletin of the Chemical Society of Japan</i> , 2022, 95, 1263-1271.	2.0	4
58	R <sup>1/4</sup> cktitelbild: Heterocyclic Conjugated Polymer Nanoarchitectonics with Synergistic Redox-Active Sites for High-Performance Aluminium Organic Batteries ( <i>Angew. Chem.</i> 25/2022). <i>Angewandte Chemie</i> , 2022, 134, .	1.6	0
59	Metal-ion inserted vanadium oxide nanoribbons as high-performance cathodes for aqueous zinc-ion batteries. <i>Chemical Engineering Journal</i> , 2022, 446, 136861.	6.6	34
60	Polyaniline coated MOF-derived Mn <sub>2</sub> O <sub>3</sub> nanorods for efficient hybrid capacitive deionization. <i>Environmental Research</i> , 2022, 212, 113331.	3.7	16
61	CeO <sub>2</sub> ~x quantum dots decorated nitrogen-doped hollow porous carbon for supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2022, 622, 147-155.	5.0	9
62	Nanoarchitected superparamagnetic iron oxide-doped mesoporous carbon nanozymes for glucose sensing. <i>Sensors and Actuators B: Chemical</i> , 2022, 366, 131980.	4.0	27
63	New Trends in Nanoarchitected SERS Substrates: Nanospaces, 2D Materials, and Organic Heterostructures. <i>Small</i> , 2022, 18, e2107182.	5.2	71
64	Hydrogel Nanoarchitetonics: An Evolving Paradigm for Ultrasensitive Biosensing. <i>Small</i> , 2022, 18, .	5.2	31
65	Photo-enhanced rechargeable high-energy-density metal batteries for solar energy conversion and storage. , 2022, 1, e9120007.		89
66	Two-Dimensional Layered Heterostructures of Nanoporous Carbons Using Reduced Graphene Oxide and Metal-Organic Frameworks. <i>Chemistry of Materials</i> , 2022, 34, 4946-4954.	3.2	24
67	Metal-Organic Framework-Derived Graphene Mesh: a Robust Scaffold for Highly Exposed Fe <sup>N<sub>4</sub></sup> Active Sites toward an Excellent Oxygen Reduction Catalyst in Acid Media. <i>Journal of the American Chemical Society</i> , 2022, 144, 9280-9291.	6.6	108
68	Photovoltaic-powered supercapacitors for driving overall water splitting: A dual-modulated 3D architecture. , 2022, 4, 1262-1273.		21
69	Noble-Metal-Based Hollow Mesoporous Nanoparticles: Synthesis Strategies and Applications. <i>Advanced Materials</i> , 2022, 34, .	11.1	44
70	Theory of Chiral Electrodeposition by Chiral Micro-Nano-Vortices under a Vertical Magnetic Field -1: 2D Nucleation by Micro-Vortices. <i>Magnetochemistry</i> , 2022, 8, 71.	1.0	0
71	Integrated, Transparent Silicon Carbide Electronics and Sensors for Radio Frequency Biomedical Therapy. <i>ACS Nano</i> , 2022, 16, 10890-10903.	7.3	17
72	Embedding Metal-Organic Frameworks for the Design of Flexible Hybrid Supercapacitors by Electrospinning: Synthesis of Highly Graphitized Carbon Nanofibers Containing Metal Oxide Nanoparticles. <i>Small Structures</i> , 2022, 3, .	6.9	61

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73	Template- and etching-free fabrication of two-dimensional hollow bimetallic metal-organic framework hexagonal nanoplates for ammonia sensing. <i>Chemical Engineering Journal</i> , 2022, 450, 138065.	6.6	22
74	N-doped hollow carbon nanoplates with mesoporous thin shells towards high-performance supercapacitors. <i>Journal of Power Sources</i> , 2022, 542, 231776.	4.0	12
75	1D-2D hybridization: Nanoarchitectonics for grain boundary-rich platinum nanowires coupled with MXene nanosheets as efficient methanol oxidation electrocatalysts. <i>Chemical Engineering Journal</i> , 2022, 450, 137932.	6.6	66
76	Clinical features of elderly-onset Adult-onset Still's disease. <i>Modern Rheumatology</i> , 2021, 31, 862-868.	0.9	15
77	Spatial-controlled etching of coordination polymers. <i>Chinese Chemical Letters</i> , 2021, 32, 635-641.	4.8	9
78	Metal-incorporated mesoporous oxides: Synthesis and applications. <i>Journal of Hazardous Materials</i> , 2021, 401, 123348.	6.5	19
79	Hollow carbon architectures with mesoporous shells via self-sacrificial templating strategy using metal-organic frameworks. <i>Chemical Engineering Journal</i> , 2021, 420, 127635.	6.6	19
80	Self-templated fabrication of hierarchical hollow manganese-cobalt phosphide yolk-shell spheres for enhanced oxygen evolution reaction. <i>Chemical Engineering Journal</i> , 2021, 405, 126580.	6.6	160
81	Morphologically controlled cobalt oxide nanoparticles for efficient oxygen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2021, 582, 322-332.	5.0	51
82	Ti <sub>3</sub> C <sub>2</sub> MXenes-derived NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /MXene nanohybrid for fast and efficient hybrid capacitive deionization performance. <i>Chemical Engineering Journal</i> , 2021, 407, 127148.	6.6	140
83	Microporous nickel phosphonate derived heteroatom doped nickel oxide and nickel phosphide: Efficient electrocatalysts for oxygen evolution reaction. <i>Chemical Engineering Journal</i> , 2021, 405, 126803.	6.6	112
84	Diels-Alder Conversion of Acrylic Acid and 2,5-Dimethylfuran to <i>para</i> -Xylene Over Heterogeneous Bi <sub>2</sub> TC Metal-Organic Framework Catalysts Under Mild Conditions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 624-629.	7.2	27
85	Highly efficient water desalination by capacitive deionization on biomass-derived porous carbon nanoflakes. <i>Separation and Purification Technology</i> , 2021, 256, 117771.	3.9	106
86	Auto-programmed synthesis of metallic aerogels: Core-shell Cu@Fe@Ni aerogels for efficient oxygen evolution reaction. <i>Nano Energy</i> , 2021, 81, 105644.	8.2	50
87	Nanoarchitected porous organic polymers and their environmental applications for removal of toxic metal ions. <i>Chemical Engineering Journal</i> , 2021, 408, 127991.	6.6	65
88	Tailored Catalytic Nanoframes from Metal-Organic Frameworks by Anisotropic Surface Modification and Etching for the Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 4747-4755.	7.2	92
89	Universal Electrochemical Synthesis of Mesoporous Chalcogenide Semiconductors: Mesoporous CdSe and CdTe Thin Films for Optoelectronic Applications. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9660-9665.	7.2	15
90	Sorghum biomass-derived porous carbon electrodes for capacitive deionization and energy storage. <i>Microporous and Mesoporous Materials</i> , 2021, 312, 110757.	2.2	63

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91	Nitroxide radical polymers for emerging plastic energy storage and organic electronics: fundamentals, materials, and applications. <i>Materials Horizons</i> , 2021, 8, 803-829.	6.4	69
92	Hollow Carbon-Based Nanoarchitectures Based on ZIF: Inward/Outward Contraction Mechanism and Beyond. <i>Small</i> , 2021, 17, e2004142.	5.2	62
93	Universal Electrochemical Synthesis of Mesoporous Chalcogenide Semiconductors: Mesoporous CdSe and CdTe Thin Films for Optoelectronic Applications. <i>Angewandte Chemie</i> , 2021, 133, 9746-9751.	1.6	4
94	Tailored Catalytic Nanoframes from Metal-Organic Frameworks by Anisotropic Surface Modification and Etching for the Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , 2021, 133, 4797-4805.	1.6	18
95	Diels-Alder Conversion of Acrylic Acid and 2,5-Dimethylfuran to <i>para</i> -Xylene Over Heterogeneous Bi-Metal-Organic Framework Catalysts Under Mild Conditions. <i>Angewandte Chemie</i> , 2021, 133, 634-639.	1.6	8
96	Nanoarchitected porous carbons derived from ZIFs toward highly sensitive and selective QCM sensor for hazardous aromatic vapors. <i>Journal of Hazardous Materials</i> , 2021, 405, 124248.	6.5	36
97	Superconducting Joining Concept for Internal Magnesium Diffusion-Processed Magnesium Diboride Wires. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 3349-3357.	4.0	12
98	Synthetic and natural MOR zeolites as high-capacity adsorbents for the removal of nitrous oxide. <i>Chemical Communications</i> , 2021, 57, 1312-1315.	2.2	14
99	Mesoporous TiO <sub>2</sub> -based architectures as promising sensing materials towards next-generation biosensing applications. <i>Journal of Materials Chemistry B</i> , 2021, 9, 1189-1207.	2.9	27
100	ZIF-8 derived hollow carbon to trap polysulfides for high performance lithium-sulfur batteries. <i>Nanoscale</i> , 2021, 13, 11086-11092.	2.8	16
101	Electrochemical Activity of Nitrogen-Containing Groups in Organic Electrode Materials and Related Improvement Strategies. <i>Advanced Energy Materials</i> , 2021, 11, 2002523.	10.2	59
102	Graphene-carbon 2D heterostructures with hierarchically-porous P,N-doped layered architecture for capacitive deionization. <i>Chemical Science</i> , 2021, 12, 10334-10340.	3.7	146
103	Performance of metal-organic frameworks in the electrochemical sensing of environmental pollutants. <i>Journal of Materials Chemistry A</i> , 2021, 9, 8195-8220.	5.2	135
104	Fabrication and Characterization of Prussian Blue-Derived Iron Carbide-Iron Oxide Hybrid on Reduced Graphene Oxide Nanosheets. <i>KONA Powder and Particle Journal</i> , 2021, 38, 260-268.	0.9	2
105	Soft template-mediated coupling construction of sandwiched mesoporous PPy/Ag nanoplates for rapid and selective NH <sub>3</sub> sensing. <i>Journal of Materials Chemistry A</i> , 2021, 9, 8308-8316.	5.2	18
106	Nitrogen, phosphorus co-doped eave-like hierarchical porous carbon for efficient capacitive deionization. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12807-12817.	5.2	79
107	Significant role of thorny surface morphology of polyaniline on adsorption of triiodide ions towards counter electrode in dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 2021, 45, 5958-5970.	1.4	11
108	Free-standing membranes from the chemical exfoliation of mesoporous amorphous titania thin film. <i>Chemical Communications</i> , 2021, 57, 7513-7516.	2.2	2

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109	Highly dispersed secondary building unit-stabilized binary metal center on a hierarchical porous carbon matrix for enhanced oxygen evolution reaction. <i>Nanoscale</i> , 2021, 13, 1213-1219.	2.8	22
110	Core-Shell MOF@COF Motif Hybridization: Selectively Functionalized Precursors for Titanium Dioxide Nanoparticle-Embedded Nitrogen-Rich Carbon Architectures with Superior Capacitive Deionization Performance. <i>Chemistry of Materials</i> , 2021, 33, 1657-1666.	3.2	121
111	Mesoporous Alumina-Titania Composites with Enhanced Molybdenum Adsorption towards Medical Radioisotope Production. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 502-507.	2.0	10
112	New Insights into the Lithium-Ion Diffusion Mechanism in Vanadate Compounds. <i>ACS Energy Letters</i> , 2021, 6, 886-892.	8.8	17
113	In Search of Excellence: Convex versus Concave Noble Metal Nanostructures for Electrocatalytic Applications. <i>Advanced Materials</i> , 2021, 33, e2004554.	11.1	34
114	Nanoengineering Metal-Organic Framework-Based Materials for Use in Electrochemical CO <sub>2</sub> Reduction Reactions. <i>Small</i> , 2021, 17, e2006590.	5.2	127
115	Significant Reduction in Thermal Conductivity and Improved Thermopower of Electron-Doped Ba <sub>1-x</sub> La <sub>x</sub> TiO <sub>3</sub> with Nanostructured Rectangular Pores. <i>Advanced Electronic Materials</i> , 2021, 7, 2001044.	2.6	1
116	Single Atom-Based Nanoarchitected Electrodes for High-Performance Lithium-Sulfur Batteries. <i>Advanced Materials Interfaces</i> , 2021, 8, 2002159.	1.9	22
117	Disposable Nitric Oxide Generator Based on a Structurally Deformed Nitrite-Type Layered Double Hydroxide. <i>Inorganic Chemistry</i> , 2021, 60, 16008-16015.	1.9	1
118	Single-Atom Catalysts. <i>Small</i> , 2021, 17, e2101584.	5.2	60
119	Mesoporous Rh nanoparticles as efficient electrocatalysts for hydrogen evolution reaction. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 96, 371-375.	2.9	15
120	Single-Atom Catalysts. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100436.	1.9	8
121	Ti <sup>3+</sup> Tuning the Ratio of Cu <sup>+</sup> /Cu <sup>0</sup> in the Ultrafine Cu Nanoparticles for Boosting the Hydrogenation Reaction. <i>Small</i> , 2021, 17, e2008052.	5.2	25
122	Nitrogenization of Biomass-Derived Porous Carbon Microtubes Promotes Capacitive Deionization Performance. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 1645-1650.	2.0	19
123	Adsorchromism: Molecular Nanoarchitectonics at 2D Nanosheets—Old Chemistry for Advanced Chromism. <i>Advanced Science</i> , 2021, 8, 2100539.	5.6	30
124	Enantioselective SERS sensing of pseudoephedrine in blood plasma biomatrix by hierarchical mesoporous Au films coated with a homochiral MOF. <i>Biosensors and Bioelectronics</i> , 2021, 180, 113109.	5.3	37
125	Exceptionally stable green rust, a mixed-valent iron-layered double hydroxide, as an efficient solar photocatalyst for H <sub>2</sub> production from ammonia borane. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119854.	10.8	22
126	Electrically Induced Alignment of Semiconductor Nanosheets in Niobate-Clay Binary Nanosheet Colloids toward Significantly Enhanced Photocatalysis. <i>Langmuir</i> , 2021, 37, 7789-7800.	1.6	6

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127	Light-conversion phosphor nanoarchitectonics for improved light harvesting in sensitized solar cells. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2021, 47, 100404.	5.6	29
128	Nanoarchitected Porous Conducting Polymers: From Controlled Synthesis to Advanced Applications. <i>Advanced Materials</i> , 2021, 33, e2007318.	11.1	68
129	Carbon Nitride Functionalized with Sb Resulting in High Photocatalytic Activity. <i>ACS Applied Energy Materials</i> , 2021, 4, 5677-5686.	2.5	8
130	Electrochemical energy storage performance of 2D nanoarchitected hybrid materials. <i>Nature Communications</i> , 2021, 12, 3563.	5.8	62
131	Extracellular Vesicle Nanoarchitectonics for Novel Drug Delivery Applications. <i>Small</i> , 2021, 17, e2102220.	5.2	48
132	Solar-Powered Sustainable Water Production: State-of-the-Art Technologies for Sunlightâ€“Energyâ€“Water Nexus. <i>ACS Nano</i> , 2021, 15, 12535-12566.	7.3	220
133	Reverse micelle-mediated synthesis of plate-assembled hierarchical three-dimensional flower-like gamma-alumina particles. <i>Microporous and Mesoporous Materials</i> , 2021, 321, 111055.	2.2	16
134	Aqueous Formateâ€“Based Liâ€“CO <sub>2</sub> Battery with Low Charge Overpotential and High Working Voltage. <i>Advanced Energy Materials</i> , 2021, 11, 2101630.	10.2	19
135	A critical review on biochar-based engineered hierarchical porous carbon for capacitive charge storage. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 145, 111029.	8.2	105
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