

# Yusuke Yamauchi

## List of Publications by Year in descending order

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1,035  
papers

78,048  
citations

317

138  
h-index

1316

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. Critical Reviews in Environmental Science and Technology, 2022, 52, 2611-2660.	12.8	45
2	Super-theoretical capacity mechanism of hollow nano-corn cob-like cobalt oxide. Chemical Engineering Journal, 2022, 430, 132700.	12.7	9
3	Nanoarchitectonics of Metal-Organic Frameworks for Capacitive Deionization via Controlled Pyrolyzed Approaches. Small, 2022, 18, e2102477.	10.0	35
4	Progress in Solid Polymer Electrolytes for Lithium-Ion Batteries and Beyond. Small, 2022, 18, e2103617.	10.0	107
5	Flexible organohydrogel ionic skin with Ultra-Low temperature freezing resistance and Ultra-Durable moisture retention. Journal of Colloid and Interface Science, 2022, 608, 396-404.	9.4	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. Chemical Engineering Journal, 2022, 427, 130946.	12.7	88
7	Nanoarchitectonics from 2D to 3D: MXenes-derived nitrogen-doped 3D nanofibrous architecture for extraordinarily-fast capacitive deionization. Chemical Engineering Journal, 2022, 430, 133161.	12.7	109
8	Material Evolution with Nanotechnology, Nanoarchitectonics, and Materials Informatics: What will be the Next Paradigm Shift in Nanoporous Materials?. Advanced Materials, 2022, 34, e2107212.	21.0	81
9	Transforming red mud into an efficient Acid-Base catalyst by hybridization with mesoporous ZSM-5 for Co-pyrolysis of biomass and plastics. Chemical Engineering Journal, 2022, 430, 132965.	12.7	24
10	Macroscopic MOF Architectures: Effective Strategies for Practical Application in Water Treatment. Small, 2022, 18, e2104387.	10.0	94
11	Eliminating tetracycline antibiotics matrix via photoactivated sulfate radical-based advanced oxidation process over the immobilized MIL-88A: Batch and continuous experiments. Chemical Engineering Journal, 2022, 431, 133213.	12.7	39
12	Defect engineering induced heterostructure of Zn-birnessite@spinel ZnMn <sub>2</sub> O <sub>4</sub> nanocrystal for flexible asymmetric supercapacitor. Chemical Engineering Journal, 2022, 430, 133115.	12.7	32
13	Borophene: Two-dimensional Boron Monolayer: Synthesis, Properties, and Potential Applications. Chemical Reviews, 2022, 122, 1000-1051.	47.7	106
14	Phase engineering of dual active 2D Bi <sub>2</sub> O <sub>3</sub> -based nanocatalysts for alkaline hydrogen evolution reaction electrocatalysis. Journal of Materials Chemistry A, 2022, 10, 808-817.	10.3	10
15	Highly adhesive and disposable inorganic barrier films: made from 2D silicate nanosheets and water. Journal of Materials Chemistry A, 2022, 10, 1956-1964.	10.3	1
16	Realizing Superior Redox Kinetics of Hollow Bimetallic Sulfide Nanoarchitectures by Defect-Induced Manipulation toward Flexible Solid-State Supercapacitors. Small, 2022, 18, e2104507.	10.0	85
17	Material Nanoarchitectonics of Functional Polymers and Inorganic Nanomaterials for Smart Supercapacitors. Small, 2022, 18, e2102397.	10.0	22
18	Nanoarchitectonics of low-dimensional metal-organic frameworks toward photo/electrochemical CO <sub>2</sub> reduction reactions. Journal of CO <sub>2</sub> Utilization, 2022, 57, 101883.	6.8	36

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19	Materials informatics-guided superior electrocatalyst: A case of pyrolysis-free single-atom coordinated with N-graphene nanomesh. Nano Energy, 2022, 94, 106868.	16.0	31
20	Î-Carrageenan Gel Modified Mesoporous Gold Chronocoulometric Sensor for Ultrasensitive Detection of MicroRNA. Bulletin of the Chemical Society of Japan, 2022, 95, 198-207.	3.2	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. Journal of Materials Chemistry A, 2022, 10, 6662-6678.	10.3	19
22	Tailoring the Structure of Chitosan-Based Porous Carbon Nanofiber Architectures toward Efficient Capacitive Charge Storage and Capacitive Deionization. ACS Applied Materials & Interfaces, 2022, 14, 4004-4021.	8.0	31
23	MgB <sub>2</sub> Superconducting Joint Architecture with the Functionality to Screen External Magnetic Fields for MRI Magnet Applications. ACS Applied Materials & Interfaces, 2022, 14, 3418-3426.	8.0	8
24	Ultrathin nanosheet-assembled nickel-based metal-organic framework microflowers for supercapacitor applications. Chemical Communications, 2022, 58, 1009-1012.	4.1	68
25	Efficient lithium-ion storage using a heterostructured porous carbon framework and its <i>in situ</i> transmission electron microscopy study. Chemical Communications, 2022, 58, 863-866.	4.1	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	10.0	0
27	Microwave one-pot synthesis of CNT-supported amorphous Niâ€P alloy nanoparticles with enhanced hydrogenation performance. Journal of Materials Chemistry A, 2022, 10, 6560-6568.	10.3	10
28	2D boron nanosheet architectonics: opening new territories by smart functionalization. Journal of Materials Chemistry A, 2022, 10, 2736-2750.	10.3	12
29	Plasmaâ€Induced Nanocrystalline Domain Engineering and Surface Passivation in Mesoporous Chalcogenide Semiconductor Thin Films. Angewandte Chemie - International Edition, 2022, 61, .	13.8	8
30	Metalâ€Organic Frameworks: A Robust Platform for Creating Nanoarchitected Carbon Materials. Accounts of Materials Research, 2022, 3, 426-438.	11.7	15
31	A General Concurrent Template Strategy for Ordered Mesoporous Intermetallic Nanoparticles with Controllable Catalytic Performance. Angewandte Chemie, 2022, 134, .	2.0	3
32	Cu-based MOF-derived architecture with Cu/Cu <sub>2</sub> O nanospheres anchored on porous carbon nanosheets for efficient capacitive deionization. Environmental Research, 2022, 210, 112909.	7.5	11
33	Fullerphene Nanosheets: A Bottomâ€Up 2D Material for Singleâ€Carbonâ€Atomâ€Level Molecular Discrimination. Advanced Materials Interfaces, 2022, 9, .	3.7	19
34	A General Concurrent Template Strategy for Ordered Mesoporous Intermetallic Nanoparticles with Controllable Catalytic Performance. Angewandte Chemie - International Edition, 2022, 61, .	13.8	35
35	Tailoring the Surface and Interface Structures of Copperâ€Based Catalysts for Electrochemical Reduction of CO <sub>2</sub> to Ethylene and Ethanol. Small, 2022, 18, e2107450.	10.0	87
36	Prussian blue analogue derived cobaltâ€nickel phosphide/carbon nanotube composite as electrocatalyst for efficient and stable hydrogen evolution reaction in wide-pH environment. Journal of Colloid and Interface Science, 2022, 616, 210-220.	9.4	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.	6.0	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.	12.2	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.	10.3	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.	7.4	26
41	MXene Nanoarchitectonics: Defect-Engineered 2D MXenes towards Enhanced Electrochemical Water Splitting. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	125
42	Boosting capacitive performance of manganese oxide nanorods by decorating with three-dimensional crushed graphene. <i>Nano Convergence</i> , 2022, 9, 10.	12.1	23
43	Molecular-Scale Manipulation of Layer Sequence in Heteroassembled Nanosheet Films toward Oxygen Evolution Electrocatalysts. <i>ACS Nano</i> , 2022, 16, 4028-4040.	14.6	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, .	13.8	27
45	Current Progress and Scalable Approach toward the Synthesis of 2D Metal-Organic Frameworks. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	9
46	Heterocyclic Conjugated Polymer Nanoarchitectonics with Synergistic Redox-Active Sites for High-Performance Aluminium Organic Batteries. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	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.	16.0	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.	18.8	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.	16.0	106
50	Engineering Stress in Thin Films: An Innovative Pathway Toward 3D Micro and Nanosystems. <i>Small</i> , 2022, 18, 2105748.	10.0	6
51	Nanoarchitectonics for Abuse-Drug Biosensors. <i>Small</i> , 2022, 18, e2104847.	10.0	14
52	Zwitterionic iodonium species afford halogen bond-based porous organic frameworks. <i>Chemical Science</i> , 2022, 13, 5650-5658.	7.4	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, .	3.7	0
54	Ultra-stable sodium ion storage of biomass porous carbon derived from sugarcane. <i>Chemical Engineering Journal</i> , 2022, 445, 136344.	12.7	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.	12.2	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, .	19.5	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.	3.2	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, .	2.0	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.	12.7	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.	7.5	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.	9.4	9
62	Nanoarchitected superparamagnetic iron oxide-doped mesoporous carbon nanozymes for glucose sensing. <i>Sensors and Actuators B: Chemical</i> , 2022, 366, 131980.	7.8	27
63	New Trends in Nanoarchitected SERS Substrates: Nanospaces, 2D Materials, and Organic Heterostructures. <i>Small</i> , 2022, 18, e2107182.	10.0	71
64	Hydrogel Nanoarchitectonics: An Evolving Paradigm for Ultrasensitive Biosensing. <i>Small</i> , 2022, 18, .	10.0	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.	6.7	24
67	Metal-Organic Framework-Derived Graphene Mesh: a Robust Scaffold for Highly Exposed Fe <sup>N&lt;sub&gt;4&lt;/sub&gt;</sup> Active Sites toward an Excellent Oxygen Reduction Catalyst in Acid Media. <i>Journal of the American Chemical Society</i> , 2022, 144, 9280-9291.	13.7	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, .	21.0	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.	2.4	0
71	Integrated, Transparent Silicon Carbide Electronics and Sensors for Radio Frequency Biomedical Therapy. <i>ACS Nano</i> , 2022, 16, 10890-10903.	14.6	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, .	12.0	61

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73	Template- and etching-free fabrication of two-dimensional hollow bimetallic metal-organic framework hexagonal nanoplates for ammonia sensing. Chemical Engineering Journal, 2022, 450, 138065.	12.7	22
74	N-doped hollow carbon nanoplates with mesoporous thin shells towards high-performance supercapacitors. Journal of Power Sources, 2022, 542, 231776.	7.8	12
75	1D-2D hybridization: Nanoarchitectonics for grain boundary-rich platinum nanowires coupled with MXene nanosheets as efficient methanol oxidation electrocatalysts. Chemical Engineering Journal, 2022, 450, 137932.	12.7	66
76	Clinical features of elderly-onset Adult-onset Still's disease. Modern Rheumatology, 2021, 31, 862-868.	1.8	15
77	Spatial-controlled etching of coordination polymers. Chinese Chemical Letters, 2021, 32, 635-641.	9.0	9
78	Metal-incorporated mesoporous oxides: Synthesis and applications. Journal of Hazardous Materials, 2021, 401, 123348.	12.4	19
79	Hollow carbon architectures with mesoporous shells via self-sacrificial templating strategy using metal-organic frameworks. Chemical Engineering Journal, 2021, 420, 127635.	12.7	19
80	Self-templated fabrication of hierarchical hollow manganese-cobalt phosphide yolk-shell spheres for enhanced oxygen evolution reaction. Chemical Engineering Journal, 2021, 405, 126580.	12.7	160
81	Morphologically controlled cobalt oxide nanoparticles for efficient oxygen evolution reaction. Journal of Colloid and Interface Science, 2021, 582, 322-332.	9.4	51
82	Ti3C2 MXenes-derived NaTi2(PO4)3/MXene nanohybrid for fast and efficient hybrid capacitive deionization performance. Chemical Engineering Journal, 2021, 407, 127148.	12.7	140
83	Microporous nickel phosphonate derived heteroatom doped nickel oxide and nickel phosphide: Efficient electrocatalysts for oxygen evolution reaction. Chemical Engineering Journal, 2021, 405, 126803.	12.7	112
84	Diels-Alder Conversion of Acrylic Acid and 2,5-Dimethylfuran to <i>p</i> -Xylene Over Heterogeneous Bi-BTC Metal-Organic Framework Catalysts Under Mild Conditions. Angewandte Chemie - International Edition, 2021, 60, 624-629.	13.8	27
85	Highly efficient water desalination by capacitive deionization on biomass-derived porous carbon nanoflakes. Separation and Purification Technology, 2021, 256, 117771.	7.9	106
86	Auto-programmed synthesis of metallic aerogels: Core-shell Cu@Fe@Ni aerogels for efficient oxygen evolution reaction. Nano Energy, 2021, 81, 105644.	16.0	50
87	Nanoarchitected porous organic polymers and their environmental applications for removal of toxic metal ions. Chemical Engineering Journal, 2021, 408, 127991.	12.7	65
88	Tailored Catalytic Nanoframes from Metal-Organic Frameworks by Anisotropic Surface Modification and Etching for the Hydrogen Evolution Reaction. Angewandte Chemie - International Edition, 2021, 60, 4747-4755.	13.8	92
89	Universal Electrochemical Synthesis of Mesoporous Chalcogenide Semiconductors: Mesoporous CdSe and CdTe Thin Films for Optoelectronic Applications. Angewandte Chemie - International Edition, 2021, 60, 9660-9665.	13.8	15
90	Sorghum biomass-derived porous carbon electrodes for capacitive deionization and energy storage. Microporous and Mesoporous Materials, 2021, 312, 110757.	4.4	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.	12.2	69
92	Hollow Carbon-Based Nanoarchitectures Based on ZIF: Inward/Outward Contraction Mechanism and Beyond. <i>Small</i> , 2021, 17, e2004142.	10.0	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.	2.0	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.	2.0	18
95	Diels-Alder Conversion of Acrylic Acid and 2,5-Dimethylfuran to <i>p</i> -Xylene Over Heterogeneous Bi-Metal-Organic Framework Catalysts Under Mild Conditions. <i>Angewandte Chemie</i> , 2021, 133, 634-639.	2.0	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.	12.4	36
97	Superconducting Joining Concept for Internal Magnesium Diffusion-Processed Magnesium Diboride Wires. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 3349-3357.	8.0	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.	4.1	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.	5.8	27
100	ZIF-8 derived hollow carbon to trap polysulfides for high performance lithium-sulfur batteries. <i>Nanoscale</i> , 2021, 13, 11086-11092.	5.6	16
101	Electrochemical Activity of Nitrogen-Containing Groups in Organic Electrode Materials and Related Improvement Strategies. <i>Advanced Energy Materials</i> , 2021, 11, 2002523.	19.5	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.	7.4	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.	10.3	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.	1.7	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.	10.3	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.	10.3	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.	2.8	11
108	Free-standing membranes from the chemical exfoliation of mesoporous amorphous titania thin film. <i>Chemical Communications</i> , 2021, 57, 7513-7516.	4.1	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.	5.6	22
110	Coreâ€“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.	6.7	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.	3.2	10
112	New Insights into the Lithium-Ion Diffusion Mechanism in Vanadate Compounds. <i>ACS Energy Letters</i> , 2021, 6, 886-892.	17.4	17
113	In Search of Excellence: Convex versus Concave Noble Metal Nanostructures for Electrocatalytic Applications. <i>Advanced Materials</i> , 2021, 33, e2004554.	21.0	34
114	Nanoengineering Metalâ€“Organic Frameworkâ€“Based Materials for Use in Electrochemical CO <sub>2</sub> Reduction Reactions. <i>Small</i> , 2021, 17, e2006590.	10.0	127
115	Significant Reduction in Thermal Conductivity and Improved Thermopower of Electronâ€“Doped Ba 1â€“ x La x TiO 3 with Nanostructured Rectangular Pores. <i>Advanced Electronic Materials</i> , 2021, 7, 2001044.	5.1	1
116	Single Atomâ€“Based Nanoarchitected Electrodes for Highâ€“Performance Lithiumâ€“Sulfur Batteries. <i>Advanced Materials Interfaces</i> , 2021, 8, 2002159.	3.7	22
117	Disposable Nitric Oxide Generator Based on a Structurally Deformed Nitrite-Type Layered Double Hydroxide. <i>Inorganic Chemistry</i> , 2021, 60, 16008-16015.	4.0	1
118	Singleâ€“Atom Catalysts. <i>Small</i> , 2021, 17, e2101584.	10.0	60
119	Mesoporous Rh nanoparticles as efficient electrocatalysts for hydrogen evolution reaction. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 96, 371-375.	5.8	15
120	Singleâ€“Atom Catalysts. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100436.	3.7	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.	10.0	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.	3.2	19
123	Adsorchromism: Molecular Nanoarchitectonics at 2D Nanosheetsâ€“Old Chemistry for Advanced Chromism. <i>Advanced Science</i> , 2021, 8, 2100539.	11.2	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.	10.1	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.	20.2	22
126	Electrically Induced Alignment of Semiconductor Nanosheets in Niobateâ€“Clay Binary Nanosheet Colloids toward Significantly Enhanced Photocatalysis. <i>Langmuir</i> , 2021, 37, 7789-7800.	3.5	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.	11.6	29
128	Nanoarchitected Porous Conducting Polymers: From Controlled Synthesis to Advanced Applications. <i>Advanced Materials</i> , 2021, 33, e2007318.	21.0	68
129	Carbon Nitride Functionalized with Sb Resulting in High Photocatalytic Activity. <i>ACS Applied Energy Materials</i> , 2021, 4, 5677-5686.	5.1	8
130	Electrochemical energy storage performance of 2D nanoarchitected hybrid materials. <i>Nature Communications</i> , 2021, 12, 3563.	12.8	62
131	Extracellular Vesicle Nanoarchitectonics for Novel Drug Delivery Applications. <i>Small</i> , 2021, 17, e2102220.	10.0	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.	14.6	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.	4.4	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.	19.5	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.	16.4	105
136	Synergistic Electrocatalytic Hydrogen Evolution in Ni/NiS Nanoparticles Wrapped in Multi-Heteroatom-Doped Reduced Graphene Oxide Nanosheets. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 34043-34052.	8.0	33
137	1Dâ€“2D Synergistic MXeneâ€“Nanotubes Hybrids for Efficient Perovskite Solar Cells. <i>Small</i> , 2021, 17, e2101925.	10.0	34
138	Direct Z-scheme CuInS <sub>2</sub> /Bi <sub>2</sub> MoO <sub>6</sub> heterostructure for enhanced photocatalytic degradation of tetracycline under visible light. <i>Journal of Hazardous Materials</i> , 2021, 415, 125591.	12.4	130
139	Metalâ€“Organic Framework-Derived CoO <sub>x</sub> /Carbon Composite Array for High-Performance Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 41649-41656.	8.0	21
140	Unlocking the Potential of Oxygen-Deficient Copper-Doped Co <sub>3</sub> O <sub>4</sub> Nanocrystals Confined in Carbon as an Advanced Electrode for Flexible Solid-State Supercapacitors. <i>ACS Energy Letters</i> , 2021, 6, 3011-3019.	17.4	173
141	KOH-Activated Hollow ZIF-8 Derived Porous Carbon: Nanoarchitected Control for Upgraded Capacitive Deionization and Supercapacitor. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 52034-52043.	8.0	149
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