

# Opportunities and challenges for a sustainable energy f

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Managing and mapping data lineage for business intelligence and analytics applications in health care. , 2011, , .		2
2	Photovoltaics literature survey (No. 97). Progress in Photovoltaics: Research and Applications, 2012, 20, 912-914.	4.4	0
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4	The emerging energy web. European Physical Journal: Special Topics, 2012, 214, 547-569.	1.2	14
5	Net primary energy balance of a solar-driven photoelectrochemical water-splitting device. Energy and Environmental Science, 2013, 6, 2380.	15.6	69
6	Reactive Distillation Column for Disproportionation of Trichlorosilane to Silane: Reducing Refrigeration Load with Intermediate Condensers. Industrial & Engineering Chemistry Research, 2013, 52, 6211-6220.	1.8	35
7	Facile solution synthesis of Ag@Pt core-shell nanoparticles with dendritic Pt shells. Physical Chemistry Chemical Physics, 2013, 15, 3490.	1.3	159
8	Global energy consumption due to friction in paper machines. Tribology International, 2013, 62, 58-77.	3.0	83
9	Graphene encapsulated and SiC reinforced silicon nanowires as an anode material for lithium ion batteries. Nanoscale, 2013, 5, 8689.	2.8	56
10	Metabolic and cellular organization in evolutionarily diverse microalgae as related to biofuels production. Current Opinion in Chemical Biology, 2013, 17, 506-514.	2.8	83
11	Theoretical Limits of Hydrogen Storage in Metal-Organic Frameworks: Opportunities and Trade-Offs. Chemistry of Materials, 2013, 25, 3373-3382.	3.2	211
12	Electrode Properties of $\text{P}2\text{Na}_{2/3}\text{MnCoO}_2$ as Cathode Materials for Sodium-Ion Batteries. Journal of Physical Chemistry C, 2013, 117, 15545-15551.	1.5	174
13	Nitrogen-doped carbon nanomaterials as non-metal electrocatalysts for water oxidation. Nature Communications, 2013, 4, 2390.	5.8	923
14	Metal free sensitizer and catalyst for dye sensitized solar cells. Energy and Environmental Science, 2013, 6, 3439.	15.6	365
15	Chemically Stable Proton Conducting Doped BaCeO <sub>3</sub> -No More Fear to SOFC Wastes. Scientific Reports, 2013, 3, 2138.	1.6	68
16	Energy and carbon accounting to compare bioenergy crops. Current Opinion in Biotechnology, 2013, 24, 369-375.	3.3	13
17	Plasmonic materials for energy: From physics to applications. Materials Today, 2013, 16, 375-386.	8.3	304
18	Coordination of storage and generation in power system frequency control using an $\text{H}_{\infty}$ approach. IET Generation, Transmission and Distribution, 2013, 7, 1263-1271.	1.4	28

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20	Friedelâ€“Crafts Acylation Using Solar Irradiation. <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 1580-1583.	3.2	14
21	An experimental investigation of melting of nanoparticle-enhanced phase change materials (NePCMs) in a bottom-heated vertical cylindrical cavity. <i>International Journal of Heat and Mass Transfer</i> , 2013, 66, 111-117.	2.5	105
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24	Microstructure evolution of Nafion/silica membrane under humidity conditions. <i>Journal of Power Sources</i> , 2013, 234, 333-339.	4.0	14
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31	Engineering xylose metabolism in triacylglycerol-producing <i>Rhodococcus opacus</i> for lignocellulosic fuel production. <i>Biotechnology for Biofuels</i> , 2013, 6, 134.	6.2	94
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40	Mapping biofuel field: A bibliometric evaluation of research output. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 28, 82-91.	8.2	65
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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1484	Cobalt incorporated $\text{MoS}_2$ hollow structure with rich out-of-plane edges for efficient hydrogen production. <i>Electrochimica Acta</i> , 2018, 276, 81-91.	2.6	31
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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1928	Enhanced catalytic activity of electrodeposited Ni-Cu-P toward oxygen evolution reaction. Applied Catalysis B: Environmental, 2018, 237, 409-415.	10.8	116
1929	Correlating the nanoparticle size dependent refractive index of ZnO optical spacer layer and the efficiency of hybrid solar cell through optical modelling. Thin Solid Films, 2018, 660, 558-563.	0.8	10
1930	Investigating Tribological Performances for GNPs/MoS <sub>2</sub> Coating at Variable Temperatures. Tribology Letters, 2018, 66, 1.	1.2	2
1931	Vanadium-Based Cathode Materials for Rechargeable Multivalent Batteries: Challenges and Opportunities. Electrochemical Energy Reviews, 2018, 1, 169-199.	13.1	142
1932	Real-time recovery strategies for volatile fatty acid-inhibited anaerobic digestion of food waste for methane production. Bioresource Technology, 2018, 265, 82-92.	4.8	49
1933	Developing High-Performance Lithium Metal Anode in Liquid Electrolytes: Challenges and Progress. Advanced Materials, 2018, 30, e1706375.	11.1	335

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1935	Mixed protonic-electronic conducting perovskite oxide as a robust oxygen evolution reaction catalyst. <i>Electrochimica Acta</i> , 2018, 282, 324-330.	2.6	23
1936	Ternary $Fe_3O_4@C@PANi$ nanocomposites as high-performance supercapacitor electrode materials. <i>Journal of Materials Science</i> , 2018, 53, 12322-12333.	1.7	37
1937	Carbon@ $SnS_2$ core-shell microspheres for lithium-ion battery anode materials. <i>Ionics</i> , 2018, 24, 2915-2923.	1.2	11
1938	5.19 Energy Management in Ocean Energy Systems. , 2018, , 778-807.		15
1939	The use of poly-cation oxides to lower the temperature of two-step thermochemical water splitting. <i>Energy and Environmental Science</i> , 2018, 11, 2172-2178.	15.6	105
1940	The Energy Future. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2018, 9, 153-174.	3.3	20
1941	Single Tungsten Atoms Supported on MOF-Derived N-Doped Carbon for Robust Electrochemical Hydrogen Evolution. <i>Advanced Materials</i> , 2018, 30, e1800396.	11.1	427
1942	A High Efficiency Si Photoanode Protected by Few-Layer $MoSe_2$ . <i>Solar Rrl</i> , 2018, 2, 1800113.	3.1	10
1943	Facile synthesized Cu- $SnO_2$ anode materials with three-dimensional metal cluster conducting architecture for high performance lithium-ion batteries. <i>Chinese Chemical Letters</i> , 2018, 29, 1656-1660.	4.8	15
1944	Mesoscale Battery Science: The Behavior of Electrode Particles Caught on a Multispectral X-ray Camera. <i>Accounts of Chemical Research</i> , 2018, 51, 2484-2492.	7.6	58
1945	Pearson's principle-inspired strategy for the synthesis of amorphous transition metal hydroxide hollow nanocubes for electrocatalytic oxygen evolution. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1523-1528.	3.2	33
1946	Hierarchical $MoO_3/SnS_2$ core-shell nanowires with enhanced electrochemical performance for lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 17171-17179.	1.3	32
1947	Room-temperature successive ion transfer chemical synthesis and the efficient acetone gas sensor and electrochemical energy storage applications of $Bi_2O_3$ nanostructures. <i>New Journal of Chemistry</i> , 2018, 42, 12530-12538.	1.4	37
1948	Recent advances of bismuth based anode materials for sodium-ion batteries. <i>Materials Technology</i> , 2018, 33, 563-573.	1.5	50
1949	Distributed Energy Management of P2P Energy Sharing in Energy Internet Based on Cloud Energy Storage. , 2018, , .		11
1950	1.30 Future Energy Directions. , 2018, , 1199-1214.		0
1951	Sulfonated poly(ether ether ketone)/sulfonated graphene oxide hybrid membrane for vanadium redox flow battery. <i>Electrochimica Acta</i> , 2018, 282, 437-447.	2.6	62

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1952	A Methylthioâ€Functionalizedâ€MOF Photocatalyst with High Performance for Visibleâ€Lightâ€Driven H <sub>2</sub> Evolution. <i>Angewandte Chemie</i> , 2018, 130, 10012-10017.	1.6	24
1953	Energy Efficiency of Reverse Osmosis. , 2018, , 25-54.		1
1954	Synthesis of S-Doped porous g-C <sub>3</sub> N <sub>4</sub> by using ionic liquids and subsequently coupled with Au-TiO <sub>2</sub> for exceptional cocatalyst-free visible-light catalytic activities. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 1082-1090.	10.8	151
1955	In-situ electrochemical activation designed hybrid electrocatalysts for water electrolysis. <i>Science Bulletin</i> , 2018, 63, 853-876.	4.3	107
1956	Panchromatic Sensitization with Zn II Porphyrinâ€Based Photosensitizers for Lightâ€Driven Hydrogen Production. <i>ChemSusChem</i> , 2018, 11, 2517-2528.	3.6	30
1957	Load-bearing supercapacitor based on bicontinuous PEO-b-P(S-co-DVB) structural electrolyte integrated with conductive nanowire-carbon fiber electrodes. <i>Carbon</i> , 2018, 139, 10-20.	5.4	34
1958	Metalâ€organic framework derived nanoporous carbons with highly selective adsorption and separation of xenon. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13696-13704.	5.2	49
1959	Role of Boron and Phosphorus in Enhanced Electrocatalytic Oxygen Evolution by Nickel Borides and Nickel Phosphides. <i>ChemElectroChem</i> , 2019, 6, 235-240.	1.7	62
1960	The application of hybrid photovoltaic system on the ocean-going ship: engineering practice and experimental research. <i>Journal of Marine Engineering and Technology</i> , 2019, 18, 56-66.	1.9	17
1961	Review and prospect of NiCo <sub>2</sub> O <sub>4</sub> -based composite materials for supercapacitor electrodes. <i>Journal of Energy Chemistry</i> , 2019, 31, 54-78.	7.1	275
1962	Modeling and theoretical design of next-generation lithium metal batteries. <i>Energy Storage Materials</i> , 2019, 16, 169-193.	9.5	67
1963	Inâ€situâ€Methoden zur Charakterisierung elektrochemischer NiFeâ€Sauerstoffentwicklungskatalysatoren. <i>Angewandte Chemie</i> , 2019, 131, 1264-1277.	1.6	21
1964	High specific surface area porous graphene grids carbon as anode materials for sodium ion batteries. <i>Journal of Energy Chemistry</i> , 2019, 31, 159-166.	7.1	40
1965	Carbon-Based Electrodes and Catalysts for the Electroreduction of Carbon Dioxide (CO <sub>2</sub> ) to Value-Added Chemicals. <i>Nanostructure Science and Technology</i> , 2019, , 219-251.	0.1	7
1966	Application of In Situ Techniques for the Characterization of NiFeâ€Based Oxygen Evolution Reaction (OER) Electrocatalysts. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1252-1265.	7.2	443
1967	Thermal analysis of porous volumetric receivers of concentrated solar dish and tower systems. <i>Renewable Energy</i> , 2019, 132, 786-797.	4.3	19
1968	Recent progress in functionalized layered double hydroxides and their application in efficient electrocatalytic water oxidation. <i>Journal of Energy Chemistry</i> , 2019, 32, 93-104.	7.1	70
1969	Chloride-derived copper electrode for efficient electrochemical reduction of CO <sub>2</sub> to ethylene. <i>Chinese Chemical Letters</i> , 2019, 30, 314-318.	4.8	39

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1970	Recent Progress on Nickel-Based Oxide/(Oxy)Hydroxide Electrocatalysts for the Oxygen Evolution Reaction. <i>Chemistry - A European Journal</i> , 2019, 25, 703-713.	1.7	170
1971	Solar accessibility in developing cities: A case study in Kowloon East, Hong Kong. <i>Sustainable Cities and Society</i> , 2019, 51, 101738.	5.1	23
1972	Confinement Catalysis with 2D Materials for Energy Conversion. <i>Advanced Materials</i> , 2019, 31, e1901996.	11.1	257
1973	Critical Role of Titanium in O3-Type Layered Cathode Materials for Sodium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 30894-30901.	4.0	50
1974	In Situ Visualization of Structural Evolution and Fissure Breathing in (De)lithiated $\text{H}_2\text{V}_3\text{O}_8$ Nanorods. <i>ACS Energy Letters</i> , 2019, 4, 2081-2090.	8.8	19
1975	In-situ generated $\text{Mn}_3\text{O}_4$ -reduced graphene oxide nanocomposite for oxygen reduction reaction and isolated reduced graphene oxide for supercapacitor applications. <i>Carbon</i> , 2019, 154, 285-291.	5.4	38
1976	Design of S-Substituted Fluorinated Aryl Sulfonamide-Tagged (S-FAST) Anions To Enable New Solvate Ionic Liquids for Battery Applications. <i>Chemistry of Materials</i> , 2019, 31, 7558-7564.	3.2	11
1977	High-Performance Lithiated $\text{SiO}_x$ Anode Obtained by a Controllable and Efficient Prelithiation Strategy. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 32062-32068.	4.0	119
1978	Electrocatalytic Hydrogen Evolution in Neutral pH Solutions: Dual-Phase Synergy. <i>ACS Catalysis</i> , 2019, 9, 8712-8718.	5.5	103
1979	Constructing Conductive Interfaces between Nickel Oxide Nanocrystals and Polymer Carbon Nitride for Efficient Electrocatalytic Oxygen Evolution Reaction. <i>Advanced Functional Materials</i> , 2019, 29, 1904020.	7.8	140
1980	Modified UiO-66 frameworks with methylthio, thiol and sulfonic acid function groups: The structure and visible-light-driven photocatalytic property study. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118047.	10.8	60
1981	Theoretical and experimental design of Pt-Co(OH) <sub>2</sub> electrocatalyst for efficient HER performance in alkaline solution. <i>Progress in Natural Science: Materials International</i> , 2019, 29, 356-361.	1.8	23
1982	Solar PV Power Potential is Greatest Over Croplands. <i>Scientific Reports</i> , 2019, 9, 11442.	1.6	168
1983	3D Ordered Macroporous $\text{VO}_2$ Thin Films with an Efficient Thermochromic Modulation Capability for Advanced Smart Windows. <i>Advanced Optical Materials</i> , 2019, 7, 1900600.	3.6	31
1984	Flexible Solar Thermal Fuel Devices: Composites of Fabric and a Photoliquefiable Azobenzene Derivative. <i>Advanced Energy Materials</i> , 2019, 9, 1901363.	10.2	60
1985	Recent advancement and strategy on bio-hydrogen production from photosynthetic microalgae. <i>Bioresource Technology</i> , 2019, 292, 121972.	4.8	127
1986	Research advances towards large-scale solar hydrogen production from water. <i>EnergyChem</i> , 2019, 1, 100014.	10.1	130
1987	A New View of Supercapacitors: Integrated Supercapacitors. <i>Advanced Energy Materials</i> , 2019, 9, 1901081.	10.2	315

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1989	Economic and Climate Benefits of Electric Vehicles in China, the United States, and Germany. <i>Environmental Science &amp; Technology</i> , 2019, 53, 11013-11022.	4.6	38
1990	The Role of Non-Metallic and Metalloid Elements on the Electrocatalytic Activity of Cobalt and Nickel Catalysts for the Oxygen Evolution Reaction. <i>ChemCatChem</i> , 2019, 11, 5842-5854.	1.8	85
1991	Oxygen Vacancy and Chemical Ordering Control Oxygen Evolution Activity of Sr <sub>2</sub> Ca <sub>2</sub> Fe <sub>2</sub> O <sub>6</sub> Perovskites. <i>ACS Applied Energy Materials</i> , 2019, 2, 6140-6145.	2.5	18
1992	Carbon-based catalysts for electrochemical CO <sub>2</sub> reduction. <i>Sustainable Energy and Fuels</i> , 2019, 3, 2890-2906.	2.5	67
1993	Amorphous Core–Shell Nanoparticles as a Highly Effective and Stable Battery-Type Electrode for Hybrid Supercapacitors. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900858.	1.9	10
1994	Carbon Allotropes as Anode Material for Lithium-Ion Batteries. <i>Advanced Materials Technologies</i> , 2019, 4, 1900307.	3.0	50
1995	High-Capacity Spherical LiNi <sub>0.82</sub> Co <sub>0.15</sub> Al <sub>0.03</sub> O <sub>2</sub> Cathode for Lithium-Ion Batteries. <i>ChemistrySelect</i> , 2019, 4, 9050-9054.	0.7	8
1996	N-Doped Carbon Nanonecklaces with Encapsulated Sb as a Sodium-Ion Battery Anode. <i>Matter</i> , 2019, 1, 720-733.	5.0	76
1997	Nature-Guided Synthesis of Advanced Bio-Lubricants. <i>Scientific Reports</i> , 2019, 9, 11711.	1.6	33
1998	Caracterización del recurso eólico en la ciudad de Juliaca. <i>Journal of High Andean Research</i> , 2019, 21, 57-68.	0.1	3
1999	Water Splitting Exceeding 17% Solar-to-Hydrogen Conversion Efficiency Using Solution-Processed Ni-Based Electrocatalysts and Perovskite/Si Tandem Solar Cell. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 33835-33843.	4.0	67
2000	Facile preparation of mesoporous NiCo <sub>2</sub> S <sub>4</sub> microaggregates constructed by nanoparticles via puffing NiCo <sub>2</sub> O <sub>4</sub> cubes for high-performance asymmetric supercapacitors. <i>Journal of Alloys and Compounds</i> , 2019, 806, 1481-1490.	2.8	23
2001	Dynamics of cool flames. <i>Progress in Energy and Combustion Science</i> , 2019, 75, 100787.	15.8	119
2002	A biomimetic nanoleaf electrocatalyst for robust oxygen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118017.	10.8	46
2003	Quantitative investigation on sink strength of nano-grain boundary for irradiation resistance. <i>Journal of Nuclear Materials</i> , 2019, 526, 151741.	1.3	17
2004	Strain Regulation to Optimize the Acidic Water Oxidation Performance of Atomic-Layer IrO <sub>x</sub> . <i>Advanced Materials</i> , 2019, 31, e1903616.	11.1	121
2005	A wood-derived hierarchically porous monolithic carbon matrix embedded with Co nanoparticles as an advanced electrocatalyst for water splitting. <i>Sustainable Energy and Fuels</i> , 2019, 3, 2753-2762.	2.5	25

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2007	â€œTopâ€Downâ€Li Deposition Pathway Enabled by an Asymmetric Design for Li Composite Electrode. <i>Advanced Energy Materials</i> , 2019, 9, 1901491.	10.2	43
2008	Cost Competitiveness of Electrolytic Hydrogen. <i>Joule</i> , 2019, 3, 2425-2443.	11.7	141
2009	2D materials as an emerging platform for nanopore-based power generation. <i>Nature Reviews Materials</i> , 2019, 4, 588-605.	23.3	253
2010	Strategies for improved induction of lipid in <i>Leptolyngbya</i> sp. BTA 287 for biodiesel production. <i>Fuel</i> , 2019, 256, 115896.	3.4	15
2011	Porous polyaniline arrays oriented on functionalized carbon cloth as binder-free electrode for flexible supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2019, 848, 113348.	1.9	27
2012	A polydimethylsiloxane-coated metal structure for all-day radiative cooling. <i>Nature Sustainability</i> , 2019, 2, 718-724.	11.5	379
2013	Monodisperse nanoparticles for catalysis and nanomedicine. <i>Nanoscale</i> , 2019, 11, 18946-18967.	2.8	61
2014	Surface Modification of Tin Dioxide via (Bi, S) Coâ€Doping for Photoelectrocatalytic Reduction of CO <sub>2</sub> to Formate. <i>ChemElectroChem</i> , 2019, 6, 3782-3790.	1.7	9
2015	Porous Î±-MnSe Microsphere Cathode Material for High-Performance Aluminum Batteries. <i>ChemElectroChem</i> , 2019, 6, 4437-4443.	1.7	20
2016	Preparation of Pt/(Ti3C2T <sub>x</sub> )-(MWCNTs) <sub>1</sub> - electrocatalysts via a facile and scalable solvothermal strategy for high-efficiency methanol oxidation. <i>Applied Catalysis A: General</i> , 2019, 585, 117181.	2.2	18
2017	In Situ Generation of Bifunctional Fe-Doped MoS <sub>2</sub> Nanocanopies for Efficient Electrocatalytic Water Splitting. <i>Inorganic Chemistry</i> , 2019, 58, 11202-11209.	1.9	84
2018	Tactical modification of pseudo-SILAR process for enhanced quantum-dot deposition on TiO <sub>2</sub> and ZnO nanoparticles for solar energy applications. <i>Materials Research Bulletin</i> , 2019, 120, 110588.	2.7	28
2019	Modulating Oxygen Evolution Reactivity in MnO <sub>2</sub> through Polymorphic Engineering. <i>Journal of Physical Chemistry C</i> , 2019, 123, 22345-22357.	1.5	38
2020	Electrocatalytically inactive SnS <sub>2</sub> promotes water adsorption/dissociation on molybdenum dichalcogenides for accelerated alkaline hydrogen evolution. <i>Nano Energy</i> , 2019, 64, 103918.	8.2	58
2021	In-situ visualization of hydrogen evolution sites on helium ion treated molybdenum dichalcogenides under reaction conditions. <i>Npj 2D Materials and Applications</i> , 2019, 3, .	3.9	35
2022	Electrodeposited Cu/MWCNT composite-film: a potential current collector of silicon-based negative-electrodes for Li-Ion batteries. <i>RSC Advances</i> , 2019, 9, 21939-21945.	1.7	12
2023	Analysis of the gyroscopic effect on the hydro-turbine generator unit. <i>Mechanical Systems and Signal Processing</i> , 2019, 132, 138-152.	4.4	13



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2025	Facile synthesis of the 3D interconnecting petal-like NiCoO <sub>2</sub> /C composite as high-performance supercapacitor electrode materials. <i>Materials Today Nano</i> , 2019, 7, 100046.	2.3	9
2026	Experimental Visualization of Interstitialcy Diffusion of Li Ion in $\hat{1}^2$ -Li <sub>2</sub> TiO <sub>3</sub> . <i>ACS Applied Energy Materials</i> , 2019, 2, 5481-5489.	2.5	19
2027	Amine-containing nanogel particles supported on porous carriers for enhanced carbon dioxide capture. <i>Applied Energy</i> , 2019, 253, 113567.	5.1	14
2028	Recent progress in the electrochemical ammonia synthesis under ambient conditions. <i>EnergyChem</i> , 2019, 1, 100011.	10.1	151
2029	Prediction Model of Coal Reservoir Pressure and its Implication for the Law of Coal Reservoir Depressurization. <i>Acta Geologica Sinica</i> , 2019, 93, 692-703.	0.8	6
2030	Phase change, band gap energy and electrical resistivity of Mg doped TiO <sub>2</sub> multilayer thin films for dye sensitized solar cells applications. <i>Ceramics International</i> , 2019, 45, 21436-21439.	2.3	17
2031	A hierarchically-assembled Fe@MoS <sub>2</sub> /Ni <sub>3</sub> S <sub>2</sub> /nickel foam electrocatalyst for efficient water splitting. <i>Dalton Transactions</i> , 2019, 48, 12186-12192.	1.6	40
2032	Defective and ultrathin NiFe LDH nanosheets decorated on V-doped Ni <sub>3</sub> S <sub>2</sub> nanorod arrays: a 3D core-shell electrocatalyst for efficient water oxidation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18118-18125.	5.2	171
2033	A facile synthesis of nitrogen-doped hierarchical porous carbon with hollow sphere structure for high-performance supercapacitors. <i>Journal of Materials Science</i> , 2019, 54, 12747-12757.	1.7	12
2034	Influence of Tandem Catalysis and Optimised Parameters on Syngas-Dimethyl Ether Co-fed Process for Ethanol Direct Synthesis in a Dual Bed Reactor. <i>Catalysis Letters</i> , 2019, 149, 3203-3216.	1.4	11
2035	Excavated and dendritic Pt-Co nanocubes as efficient ethylene glycol and glycerol oxidation electrocatalysts. <i>Applied Catalysis B: Environmental</i> , 2019, 258, 117951.	10.8	48
2036	Preparation of MOF-derived NiCoP nanocages as anodes for lithium ion batteries. <i>Powder Technology</i> , 2019, 354, 834-841.	2.1	31
2037	Atomically dispersed metal catalysts for the oxygen reduction reaction: synthesis, characterization, reaction mechanisms and electrochemical energy applications. <i>Energy and Environmental Science</i> , 2019, 12, 2890-2923.	15.6	317
2038	First-principles investigation of N-triphenylene-graphdiyne nanosheets as an anode material for Na, K, Mg and Ca storage. <i>Computational Materials Science</i> , 2019, 169, 109093.	1.4	19
2039	CO <sub>2</sub> Sensing Behavior of Calcium-Doped ZnO Thin Film: A Study To Address the Cross-Sensitivity of CO <sub>2</sub> in H <sub>2</sub> and CO Environment. <i>Langmuir</i> , 2019, 35, 10267-10275.	1.6	27
2040	Synthesis and mechanism investigation of three-dimensional porous CoP <sub>3</sub> nanoplate arrays as efficient hydrogen evolution reaction electrocatalyst. <i>Applied Surface Science</i> , 2019, 494, 179-186.	3.1	14
2041	Coating layer and influence of transition metal for ferritic stainless steel interconnector solid oxide fuel cell: A review. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 30591-30605.	3.8	64

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2043	Helium irradiation induced ultra-high strength nanotwinned Cu with nanovoids. Acta Materialia, 2019, 177, 107-120.	3.8	38
2044	Interfacial effects in supported catalysts for electrocatalysis. Journal of Materials Chemistry A, 2019, 7, 23432-23450.	5.2	94
2045	Enhancing ignition and inhibiting extinction of methane diffusion flame by in situ fuel processing using dielectric-barrier-discharge plasma. Fuel Processing Technology, 2019, 194, 106128.	3.7	9
2046	Powerful Thermogalvanic Cells Based on a Reversible Hydrogen Electrode and Gas-Containing Electrolytes. ACS Energy Letters, 2019, 4, 1810-1815.	8.8	28
2047	High loading accessible active sites <i>via</i> designable 3D-printed metal architecture towards promoting electrocatalytic performance. Journal of Materials Chemistry A, 2019, 7, 18338-18347.	5.2	35
2048	Synthesis of $\text{Fe}_{16}\text{N}_2$ ribbons with a porous structure. Nanoscale Advances, 2019, 1, 1337-1342.	2.2	20
2049	In situ Raman study of nickel bicarbonate for high-performance energy storage device. Nano Energy, 2019, 64, 103919.	8.2	112
2050	A High-Rate and Long-Life Aqueous Rechargeable Ammonium Zinc Hybrid Battery. ChemSusChem, 2019, 12, 3732-3736.	3.6	62
2051	Atomic Layer Deposition of a Magnesium Phosphate Solid Electrolyte. Chemistry of Materials, 2019, 31, 5566-5575.	3.2	30
2052	Ternary Phase Diagram-Facilitated Rapid Screening of Double Perovskites As Electrocatalysts for the Oxygen Evolution Reaction. Chemistry of Materials, 2019, 31, 5919-5926.	3.2	26
2053	Valorization of aqueous waste streams from thermochemical biorefineries. Green Chemistry, 2019, 21, 4217-4230.	4.6	31
2054	Structure-Tunable Copper-Indium Catalysts for Highly Selective $\text{CO}_2$ Electroreduction to CO or HCOOH. ChemSusChem, 2019, 12, 3955-3959.	3.6	55
2055	Ion Transport in Porous Electrodes Obtained by Impedance Using a Symmetric Cell with Predictable Low-Temperature Battery Performance. Journal of Physical Chemistry Letters, 2019, 10, 5013-5018.	2.1	29
2056	P-Substituted $\text{Ba}_{0.95}\text{La}_{0.05}\text{FeO}_{3-\delta}$ as a Cathode Material for SOFCs. ACS Applied Energy Materials, 2019, 2, 5472-5480.	2.5	36
2057	Thermodynamic criteria of the end-of-life silicon wafers refining for closing the recycling loop of photovoltaic panels. Science and Technology of Advanced Materials, 2019, 20, 813-825.	2.8	15
2058	The core-shell mesoporous titanium dioxide with in-situ nitrogen doped carbon as the anode for high performance lithium-ion battery. Journal of Alloys and Compounds, 2019, 806, 946-952.	2.8	10
2059	Inner space- and architecture-controlled nanoframes for efficient electro-oxidation of liquid fuels. Journal of Materials Chemistry A, 2019, 7, 19280-19289.	5.2	12

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2061	Advances in Sn-Based Catalysts for Electrochemical CO <sub>2</sub> Reduction. <i>Nano-Micro Letters</i> , 2019, 11, 62.	14.4	176
2062	Minimum and well-dispersed platinum nanoparticles on 3D porous nickel for highly efficient electrocatalytic hydrogen evolution reaction enabled by atomic layer deposition. <i>Applied Surface Science</i> , 2019, 494, 1091-1099.	3.1	20
2063	Electrochemical performance of hydrothermally synthesized N-Doped reduced graphene oxide electrodes for supercapacitor application. <i>Solid State Sciences</i> , 2019, 96, 105952.	1.5	24
2064	Nitrogen-doped metal-free carbon catalysts for (electro)chemical CO <sub>2</sub> conversion and valorisation. <i>Dalton Transactions</i> , 2019, 48, 13508-13528.	1.6	71
2065	One-step solid-phase boronation to fabricate self-supported porous FeNiB/FeNi foam for efficient electrocatalytic oxygen evolution and overall water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19554-19564.	5.2	68
2066	Electrodeposited Stable Binder-Free Organic Ni(OH) <sub>2</sub> Flexible Nanohybrid Electrodes for High-Performance Supercapacitors. <i>Energy Technology</i> , 2019, 7, 1900546.	1.8	5
2067	Exploring the Role of Electrode Microstructure on the Performance of Non-Aqueous Redox Flow Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A2230-A2241.	1.3	95
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2069	Recent progress and perspectives on dual-ion batteries. <i>EnergyChem</i> , 2019, 1, 100004.	10.1	93
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#	ARTICLE	IF	CITATIONS
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2225	Structural evolution of CoMoO <sub>4</sub> to CoOOH by ion electrochemical etching for boosting oxygen evolution reaction. Journal of Power Sources, 2019, 442, 227252.	4.0	65

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2227	Valence Engineering <i>via</i> Dual-Cation and Boron Doping in Pyrite Selenide for Highly Efficient Oxygen Evolution. <i>ACS Nano</i> , 2019, 13, 11469-11476.	7.3	68
2228	Morphological synergistic behavior on electrochemical performance of battery-type spinel nickel manganese oxides for aqueous hybrid supercapacitors. <i>Journal of Power Sources</i> , 2019, 439, 227088.	4.0	27
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#	ARTICLE	IF	CITATIONS
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2245	Covalently Grafting Cobalt Porphyrin onto Carbon Nanotubes for Efficient CO <sub>2</sub> Electroreduction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6595-6599.	7.2	190
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#	ARTICLE	IF	CITATIONS
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2344	Yolk-shell structured V <sub>2</sub> O <sub>3</sub> microspheres wrapped in N, S co-doped carbon as pea-pod nanofibers for high-capacity lithium ion batteries. <i>Chemical Engineering Journal</i> , 2019, 374, 545-553.	6.6	86
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2355	Sequential Cascade Electrocatalytic Conversion of Carbon Dioxide to $C-C$ Coupled Products. <i>ACS Applied Energy Materials</i> , 2019, 2, 4551-4559.	2.5	64
2356	Joint Charge Storage for High-Rate Aqueous Zinc-Manganese Dioxide Batteries. <i>Advanced Materials</i> , 2019, 31, e1900567.	11.1	299
2357	A high-performance electrocatalyst of $CoMoP@NF$ nanosheet arrays for hydrogen evolution in alkaline solution. <i>Journal of Materials Science</i> , 2019, 54, 11585-11595.	1.7	20
2358	A Moisture-Penetrating Humidity Pump Directly Powered by One-Sun Illumination. <i>IScience</i> , 2019, 15, 502-513.	1.9	28
2359	Optical coatings of durability based on transition metal nitrides. <i>Thin Solid Films</i> , 2019, 688, 137339.	0.8	27
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2361	Characterization and corrosion behaviour of grade 2 titanium used in electrolyzers for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 15622-15633.	3.8	12
2362	Hierarchical cobalt phosphide hollow nanoboxes as high performance bifunctional electrocatalysts for overall water splitting. <i>Materials Today Energy</i> , 2019, 12, 443-452.	2.5	28
2363	Efficient, Full Spectrum-Driven $H_2$ Evolution Z-Scheme $Co_2P/CdS$ Photocatalysts with $Co-S$ Bonds. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 22297-22306.	4.0	90
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2365	A Critical Review on Enhancement of Photocatalytic Hydrogen Production by Molybdenum Disulfide: From Growth to Interfacial Activities. <i>Small</i> , 2019, 15, e1900578.	5.2	69
2366	Chemical diversity in molecular orbital energy predictions with kernel ridge regression. <i>Journal of Chemical Physics</i> , 2019, 150, 204121.	1.2	59
2367	Biological Nanofibrous Generator for Electricity Harvest from Moist Air Flow. <i>Advanced Functional Materials</i> , 2019, 29, 1901798.	7.8	137
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#	ARTICLE	IF	CITATIONS
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2372	Hydrogen Fuel Cell Vehicles; Current Status and Future Prospect. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2296.	1.3	367
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2375	MnO <sub>2</sub> nanorods/MXene/CC composite electrode for flexible supercapacitors with enhanced electrochemical performance. <i>Journal of Alloys and Compounds</i> , 2019, 802, 259-268.	2.8	104
2376	Advanced Non-metallic Catalysts for Electrochemical Nitrogen Reduction under Ambient Conditions. <i>Chemistry - A European Journal</i> , 2019, 25, 12464-12485.	1.7	57
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2378	Treefrog Toe Pad-Inspired Micropatterning for High-Power Triboelectric Nanogenerator. <i>Advanced Functional Materials</i> , 2019, 29, 1901638.	7.8	56
2379	One-Step Interfacial Functionalization and Synthesis of Mo-Modified TiO <sub>2</sub> Nanocrystalline as Composite PtRu Anode Catalyst Support for DMFCs. <i>ChemistrySelect</i> , 2019, 4, 5055-5063.	0.7	1
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2384	Characterization of Ta/W co-doped SrFeO <sub>3</sub> -perovskite as cathode for solid oxide fuel cells. <i>Journal of Alloys and Compounds</i> , 2019, 797, 205-212.	2.8	55
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2386	Template Fabrication of Amorphous Co <sub>2</sub> SiO <sub>4</sub> Nanobelts/Graphene Oxide Composites with Enhanced Electrochemical Performances for Hybrid Supercapacitors. <i>ACS Applied Energy Materials</i> , 2019, 2, 3830-3839.	2.5	96
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#	ARTICLE	IF	CITATIONS
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2390	Recent Advances in Applications of Sorted Single-Walled Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2019, 29, 1902273.	7.8	67
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2393	The electronic structure underlying electrocatalysis of two-dimensional materials. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2019, 9, e1418.	6.2	17
2394	Ultrasonic assisted synthesis of Zn-Ni bi-metal MOFs for interconnected Ni-N-C materials with enhanced electrochemical reduction of CO <sub>2</sub> . <i>Journal of CO<sub>2</sub> Utilization</i> , 2019, 32, 251-258.	3.3	50
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2396	All-Solution-Processed WO <sub>3</sub> /BiVO <sub>4</sub> Core-Shell Nanorod Arrays for Highly Stable Photoanodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 20004-20012.	4.0	57
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2398	3D self-supported Ni nanoparticle@N-doped carbon nanotubes anchored on NiMoN pillars for the hydrogen evolution reaction with high activity and anti-oxidation ability. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13671-13678.	5.2	71
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2401	Spinel-type solar-thermal conversion coatings on supercapacitors: An effective strategy for capacitance recovery at low temperatures. <i>Energy Storage Materials</i> , 2019, 23, 159-167.	9.5	27
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2409	Energy sustainability analyses using feasible indicators for urban areas. <i>International Journal of Energy and Water Resources</i> , 2019, 3, 127-140.	1.3	6
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2414	Wearable thermoelectrics for personalized thermoregulation. <i>Science Advances</i> , 2019, 5, eaaw0536.	4.7	299
2415	Interlayers for lithium-based batteries. <i>Energy Storage Materials</i> , 2019, 23, 112-136.	9.5	37
2416	Highly efficient visible-light-driven photocatalytic activity of g-C <sub>3</sub> N <sub>4</sub> @Ag/AgVO <sub>3</sub> composites for dye degradation and bacterial inactivation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 380, 111866.	2.0	36
2417	High-Energy-Density Hydrogen-Ion-Rocking-Chair Hybrid Supercapacitors Based on Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene and Carbon Nanotubes Mediated by Redox Active Molecule. <i>ACS Nano</i> , 2019, 13, 6899-6905.	7.3	129
2418	Charge, adsorption, water stability and bandgap tuning of an anionic Cd(II) porphyrinic metal-organic framework. <i>Dalton Transactions</i> , 2019, 48, 8678-8692.	1.6	14
2419	Rapid Fabrication of Ni/NiO@CoFe Layered Double Hydroxide Hierarchical Nanostructures by Femtosecond Laser Ablation and Electrodeposition for Efficient Overall Water Splitting. <i>ChemSusChem</i> , 2019, 12, 2773-2779.	3.6	29
2420	Review of two-dimensional materials for electrochemical CO <sub>2</sub> reduction from a theoretical perspective. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2019, 9, e1416.	6.2	59
2421	Defect engineering of molybdenum disulfide through ion irradiation to boost hydrogen evolution reaction performance. <i>Nano Research</i> , 2019, 12, 1613-1618.	5.8	62
2422	Facile chemical-vapour-deposition synthesis of vertically aligned co-doped MoS <sub>2</sub> nanosheets as an efficient catalyst for triiodide reduction and hydrogen evolution reaction. <i>Journal of Catalysis</i> , 2019, 373, 250-259.	3.1	32
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2428	An aqueous rechargeable sodium-magnesium mixed ion battery based on NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> -MnO <sub>2</sub> system. <i>Electrochimica Acta</i> , 2019, 311, 1-7.	2.6	26
2429	Progress in Triboelectric Materials: Toward High Performance and Widespread Applications. <i>Advanced Functional Materials</i> , 2019, 29, 1900098.	7.8	162
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2431	Computational Screening of Defective Group IVA Monochalcogenides as Efficient Catalysts for Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11791-11797.	1.5	24
2432	Experiment-based supervised learning approach toward condition monitoring of PV array mismatch. <i>IET Generation, Transmission and Distribution</i> , 2019, 13, 1014-1024.	1.4	9
2433	Optimization of active surface area of flower like MoS <sub>2</sub> using V-doping towards enhanced hydrogen evolution reaction in acidic and basic medium. <i>Applied Catalysis B: Environmental</i> , 2019, 254, 432-442.	10.8	185
2434	Direct assembly of micron-size porous graphene spheres with a high density as supercapacitor materials. <i>Carbon</i> , 2019, 149, 492-498.	5.4	20
2435	Nitrogen, sulfur co-doped hierarchically porous carbon from rape pollen as high-performance supercapacitor electrode. <i>Electrochimica Acta</i> , 2019, 311, 72-82.	2.6	123
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2440	Plasmonic photosynthesis of C <sub>1</sub> -C <sub>3</sub> hydrocarbons from carbon dioxide assisted by an ionic liquid. <i>Nature Communications</i> , 2019, 10, 2022.	5.8	142
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2448	Can Wicking Control Droplet Cooling?. <i>Langmuir</i> , 2019, 35, 6562-6570.	1.6	17
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2452	Remarkable merits of triboelectric nanogenerator than electromagnetic generator for harvesting small-amplitude mechanical energy. <i>Nano Energy</i> , 2019, 61, 111-118.	8.2	144
2453	Single platinum atoms embedded in nanoporous cobalt selenide as electrocatalyst for accelerating hydrogen evolution reaction. <i>Nature Communications</i> , 2019, 10, 1743.	5.8	430
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2457	Co <sup>II</sup> -Modified MoS <sub>2</sub> Hybrids as Superior Bifunctional Electrocatalysts for Water Splitting Reactions: Integrating Multiple Active Components in One. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900372.	1.9	22
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2459	Vertically-aligned nanostructures for electrochemical energy storage. <i>Nano Research</i> , 2019, 12, 2002-2017.	5.8	45
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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2480	Molecular Heterostructures of Covalent Triazine Frameworks for Enhanced Photocatalytic Hydrogen Production. <i>Angewandte Chemie</i> , 2019, 131, 8768-8772.	1.6	67
2481	Tuning the interface by a soldering method for high performance garnet-type solid-state Li metal battery. <i>Ceramics International</i> , 2019, 45, 11955-11962.	2.3	11
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2487	A novel shape-stabilization strategy for phase change thermal energy storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8194-8203.	5.2	60
2488	Photocatalytic degradation of organic dyes by infinite one dimensional coordination polymer based on Zn(II) in water. <i>Bulletin of the Chemical Society of Ethiopia</i> , 2019, 33, 51.	0.5	9
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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2810	Facile synthesis and electrochemical performance of Mg-substituted Ni <sub>1-x</sub> Mg <sub>x</sub> Co <sub>2</sub> O <sub>4</sub> mesoporous nanoflakes for energy storage applications. <i>Electrochimica Acta</i> , 2019, 294, 53-59.	2.6	14
2811	Preparation and electrochemical properties of MnO <sub>2</sub> /PANI-CNTs composites materials. <i>Composite Interfaces</i> , 2019, 26, 659-677.	1.3	11
2812	Nickel Foam-Supported Co <sub>3</sub> @CoSe Nanowires with a Heterostructure Interface for Overall Water Splitting with Low Overpotential and High Efficiency. <i>Energy Technology</i> , 2019, 7, 1800741.	1.8	13
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2814	Direct solar steam generation system for clean water production. <i>Energy Storage Materials</i> , 2019, 18, 429-446.	9.5	234
2815	A novel Pt/pyridine ionic liquid polyoxometalate/rGO tri-component hybrid and its enhanced activities for methanol electrooxidation. <i>Electrochimica Acta</i> , 2019, 294, 93-101.	2.6	22
2816	IrO <sub>2</sub> and Pt Doped Mesoporous SnO <sub>2</sub> Nanospheres as Efficient Electrocatalysts for the Facile OER and HER. <i>ChemCatChem</i> , 2019, 11, 583-592.	1.8	82
2817	PtCo bimetallic nanoparticles encapsulated in N-doped carbon nanorod arrays for efficient electrocatalysis. <i>Carbon</i> , 2019, 142, 206-216.	5.4	56
2818	Enhanced dielectric properties and energy density of flexible KTa <sub>0.2</sub> Nb <sub>0.8</sub> O <sub>3</sub> -BaTiO <sub>3</sub> /P(VDF-TrFE-CTFE) nanocomposite. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 2501-2511.	1.1	8
2819	Gradient Oxygen Vacancies in V <sub>2</sub> O <sub>5</sub> /PEDOT Nanocables for High-Performance Supercapacitors. <i>ACS Applied Energy Materials</i> , 2019, 2, 668-677.	2.5	58
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2821	A practical-oriented NiFe-based water-oxidation catalyst enabled by ambient redox and hydrolysis co-precipitation strategy. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 844-852.	10.8	125
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2823	Hyperbranched Polystyrene Copolymer Makes Superior Anion Exchange Membrane. <i>ACS Applied Polymer Materials</i> , 2019, 1, 76-82.	2.0	28
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#	ARTICLE	IF	CITATIONS
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2842	Thermodynamic study on carbon dioxide absorption in aqueous solutions of choline-based amino acid ionic liquids. <i>Separation and Purification Technology</i> , 2019, 214, 128-138.	3.9	36
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#	ARTICLE	IF	CITATIONS
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2949	An advanced and highly efficient Ce assisted NiFe-LDH electrocatalyst for overall water splitting. <i>Sustainable Energy and Fuels</i> , 2020, 4, 312-323.	2.5	125
2950	Single-atom catalysts for electrochemical clean energy conversion: recent progress and perspectives. <i>Sustainable Energy and Fuels</i> , 2020, 4, 996-1011.	2.5	36
2951	Photo-induced charge kinetic acceleration in ultrathin layered double hydroxide nanosheets boosts the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1105-1112.	5.2	32
2952	Anodized Aluminum Oxide Separators with Aligned Channels for High-Performance Liâ€S Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 5831-5837.	4.0	29
2953	Composite Polymer Electrolyte based on Liquid Crystalline Copolymer with High-temperature Stability and Bendability for All-solid-state Lithium-ion Batteries. <i>International Journal of Electrochemical Science</i> , 2020, 15, 677-695.	0.5	5

#	ARTICLE	IF	CITATIONS
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2955	Template-mediated growth of tungsten oxide with different morphologies for electrochemical application. <i>Materials Letters</i> , 2020, 264, 127309.	1.3	2
2956	Macrocyclic cyanocobalamin (vitamin B <sub>12</sub> ) as a homogeneous electrocatalyst for water oxidation under neutral conditions. <i>Chemical Communications</i> , 2020, 56, 1968-1971.	2.2	22
2957	A coaxial three-layer (Ni, Fe)O <sub>x</sub> H <sub>y</sub> /Ni/Cu mesh electrode: excellent oxygen evolution reaction activity for water electrolysis. <i>Catalysis Science and Technology</i> , 2020, 10, 1803-1808.	2.1	9
2958	Electrical decoupling of microbial electrochemical reactions enables spontaneous H <sub>2</sub> evolution. <i>Energy and Environmental Science</i> , 2020, 13, 495-502.	15.6	20
2959	Vertically stacked bilayer heterostructure CoFe <sub>2</sub> O <sub>4</sub> @Ni <sub>3</sub> S <sub>2</sub> on a 3D nickel foam as a high-performance electrocatalyst for the oxygen evolution reaction. <i>New Journal of Chemistry</i> , 2020, 44, 1455-1462.	1.4	23
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2961	Loading FeOOH on Ni(OH) <sub>2</sub> hollow nanorods to obtain a three-dimensional sandwich catalyst with strong electron interactions for an efficient oxygen evolution reaction. <i>Nanoscale</i> , 2020, 12, 983-990.	2.8	69
2962	<i>In situ</i> preparation of Ru <sup>N</sup> -doped template-free mesoporous carbons as a transparent counter electrode for bifacial dye-sensitized solar cells. <i>Nanoscale</i> , 2020, 12, 1602-1616.	2.8	26
2963	Solventless thermal crosslinked polymer protective layer for high stable lithium metal batteries. <i>Sustainable Energy and Fuels</i> , 2020, 4, 522-527.	2.5	4
2964	Bridged triarylboranes, silanes, amines, and phosphines as minimalistic heteroatom-containing polycyclic aromatic hydrocarbons: Progress and challenges. <i>Journal of Physical Organic Chemistry</i> , 2020, 33, e4022.	0.9	34
2965	Single-walled carbon nanotube as conductive additive for SiO/C composite electrodes in pouch-type lithium-ion batteries. <i>Ionics</i> , 2020, 26, 1721-1728.	1.2	19
2966	Application of atomic layer deposition in fabricating high-efficiency electrocatalysts. <i>Chinese Journal of Catalysis</i> , 2020, 41, 227-241.	6.9	21
2967	Hierarchical hollow nanotubes of NiFeV-layered double hydroxides@CoVP heterostructures towards efficient, pH-universal electrocatalytic nitrogen reduction reaction to ammonia. <i>Applied Catalysis B: Environmental</i> , 2020, 265, 118559.	10.8	252
2968	Specific phase modulation and infrared photon confinement in solar selective absorbers. <i>Applied Materials Today</i> , 2020, 18, 100533.	2.3	6
2969	Application of CoV-LDH nano-flower in asymmetric supercapacitors with high electrochemical properties. <i>Electrochimica Acta</i> , 2020, 336, 135550.	2.6	28
2970	An investigation on the impact of halidization on substituted dimethoxybenzenes. <i>Electrochimica Acta</i> , 2020, 335, 135580.	2.6	5
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#	ARTICLE	IF	CITATIONS
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2973	Hierarchical Zn-Co-P nanoneedle arrays supported on three-dimensional framework as efficient electrocatalysts for hydrogen evolution reaction in alkaline condition. <i>Journal of Electroanalytical Chemistry</i> , 2020, 858, 113803.	1.9	7
2974	Experience Curves for Operations and Maintenance Costs of Renewable Energy Technologies. <i>Joule</i> , 2020, 4, 359-375.	11.7	74
2975	Remarkable hydrogen absorption/desorption behaviors and mechanism of sodium alanates in-situ doped with Ti-based 2D MXene. <i>Materials Chemistry and Physics</i> , 2020, 242, 122529.	2.0	35
2976	Strain and Doping in Two-Dimensional SnTe Nanosheets: Implications for Thermoelectric Conversion. <i>ACS Applied Nano Materials</i> , 2020, 3, 114-119.	2.4	12
2977	3D Graphene Decorated with $\text{Ni}_3\text{Cu}_3\text{P}$ Composite: A Noble Metal-free Bifunctional Electrocatalyst for Overall Water Splitting. <i>ChemCatChem</i> , 2020, 12, 1394-1402.	1.8	71
2978	A review status on alternative arrangements of power generation energy resources and reserve in India. <i>International Journal of Low-Carbon Technologies</i> , 2020, 15, 224-240.	1.2	16
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2981	Rational Design of 2D Manganese Phosphate Hydrate Nanosheets as Pseudocapacitive Electrodes. <i>ACS Energy Letters</i> , 2020, 5, 23-30.	8.8	37
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2983	Three-dimensional mesoporous graphene-modified carbon felt for high-performance vanadium redox flow batteries. <i>Electrochimica Acta</i> , 2020, 330, 135276.	2.6	26
2984	Incorporating SnO <sub>2</sub> nanodots into wood flour-derived hierarchically porous carbon as low-cost anodes for superior lithium storage. <i>Journal of Electroanalytical Chemistry</i> , 2020, 856, 113654.	1.9	9
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2986	Surface charge density of triboelectric nanogenerators: Theoretical boundary and optimization methodology. <i>Applied Materials Today</i> , 2020, 18, 100496.	2.3	64
2987	Cellulose-based materials in wastewater treatment of petroleum industry. <i>Green Energy and Environment</i> , 2020, 5, 37-49.	4.7	159
2988	Mechanistic investigation of silver vanadate as superior cathode for high rate and durable zinc-ion batteries. <i>Journal of Colloid and Interface Science</i> , 2020, 560, 659-666.	5.0	30
2989	Penta-graphene as a promising controllable CO <sub>2</sub> capture and separation material in an electric field. <i>Applied Surface Science</i> , 2020, 502, 144067.	3.1	49

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2991	The one-pot synthesis of CuNi nanoparticles with a Ni-rich surface for the electrocatalytic methanol oxidation reaction. <i>Dalton Transactions</i> , 2020, 49, 1646-1651.	1.6	39
2992	Pt decorated POMOF-derived constructions for efficient electrocatalytic hydrogen evolution. <i>Nanoscale</i> , 2020, 12, 3902-3906.	2.8	28
2993	Advanced sodium storage properties of a porous nitrogen-doped carbon with a NiO/Cu <sub>2</sub> O hetero-interface derived from bimetallic organic frameworks. <i>Chemical Communications</i> , 2020, 56, 818-821.	2.2	9
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2996	Advances and challenges in electrochemical CO <sub>2</sub> reduction processes: an engineering and design perspective looking beyond new catalyst materials. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1511-1544.	5.2	305
2997	Cathode materials with mixed phases of orthorhombic MoO <sub>3</sub> and Li <sub>0.042</sub> MoO <sub>3</sub> for lithium-ion batteries. <i>Canadian Journal of Chemistry</i> , 2020, 98, 106-113.	0.6	6
2998	Differences in CO <sub>2</sub> emissions of solar PV production among technologies and regions: Application to China, EU and USA. <i>Energy Policy</i> , 2020, 138, 111234.	4.2	44
2999	A review of high-temperature selective absorbing coatings for solar thermal applications. <i>Journal of Materiomics</i> , 2020, 6, 167-182.	2.8	113
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3004	Renewable electricity storage using electrolysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 12558-12563.	3.3	136
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#	ARTICLE	IF	CITATIONS
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3010	Photoinduced Defect Engineering: Enhanced Photothermal Catalytic Performance of 2D Black In <sub>2</sub> O <sub>3</sub> Nanosheets with Bifunctional Oxygen Vacancies. <i>Advanced Materials</i> , 2020, 32, e1903915.	11.1	208
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3015	In-situ X-ray techniques for non-noble electrocatalysts. <i>Pure and Applied Chemistry</i> , 2020, 92, 733-749.	0.9	19
3016	Efficient hydrogen production via urea electrolysis with cobalt doped nickel hydroxide-riched hybrid films: Cobalt doping effect and mechanism aspect. <i>Journal of Catalysis</i> , 2020, 381, 454-461.	3.1	62
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3023	Value-Added Formate Production from Selective Methanol Oxidation as Anodic Reaction to Enhance Electrochemical Hydrogen Cogeneration. <i>ChemSusChem</i> , 2020, 13, 914-921.	3.6	87
3024	Enhanced oil recovery mechanism and recovery performance of microgel particle suspensions by microfluidic experiments. <i>Energy Science and Engineering</i> , 2020, 8, 986-998.	1.9	33
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3029	Fabrication and electrochemical OER activity of Ag doped MoO <sub>3</sub> nanorods. <i>Materials Science in Semiconductor Processing</i> , 2020, 107, 104818.	1.9	19
3030	Role of particle size on the cohesive behavior of limestone powders at high temperature. <i>Chemical Engineering Journal</i> , 2020, 391, 123520.	6.6	8
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3032	Coupled cobalt silicate nanobelt-on-nanobelt hierarchy structure with reduced graphene oxide for enhanced supercapacitive performance. <i>Journal of Power Sources</i> , 2020, 448, 227407.	4.0	82
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3036	Two-step electrochemical reduction of CO <sub>2</sub> towards multi-carbon products at high current densities. <i>Journal of CO<sub>2</sub> Utilization</i> , 2020, 36, 263-275.	3.3	48
3037	Lithium Sulfide-Embedded Three-Dimensional Heterogeneous Micro-/Mesoporous Interwoven Carbon Architecture as the Cathode of Lithium-Sulfur Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 351-361.	3.2	10
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3039	Guarding active sites and electron transfer engineering of core-shell nanosheet as robust bifunctional applications for overall water splitting and capacitors. <i>Electrochimica Acta</i> , 2020, 331, 135372.	2.6	3
3040	In Situ Electrochemical Synthesis of Rod-Like Ni-MOFs as Battery-Type Electrode for High Performance Hybrid Supercapacitor. <i>Journal of the Electrochemical Society</i> , 2020, 167, 050503.	1.3	31
3041	Rechargeable Zn-MnO <sub>2</sub> batteries: advances, challenges and perspectives. <i>Nanotechnology</i> , 2020, 31, 122001.	1.3	76
3042	Oxygen Doping Induced by Nitrogen Vacancies in Nb <sub>4</sub> N <sub>5</sub> Enables Highly Selective CO <sub>2</sub> Reduction. <i>Small</i> , 2020, 16, e1905825.	5.2	38
3043	Monomeric MoS <sub>4</sub> <sup>2-</sup> -Derived Polymeric Chains with Active Molecular Units for Efficient Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2020, 10, 652-662.	5.5	37



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3045	Vanadium Doped Nickel Phosphide Nanosheets Self-Assembled Microspheres as a High-Efficiency Oxygen Evolution Catalyst. <i>ChemCatChem</i> , 2020, 12, 917-925.	1.8	22
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3049	Mechanically strong and thermally insulating polyimide aerogels by homogeneity reinforcement of electrospun nanofibers. <i>Composites Part B: Engineering</i> , 2020, 182, 107624.	5.9	70
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3051	Biomass and biohydrogen production during dark fermentation of <i>Escherichia coli</i> using office paper waste and cardboard. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 286-293.	3.8	12
3052	Hierarchical molybdenum-doped cobaltous hydroxide nanotubes assembled by cross-linked porous nanosheets with efficient electronic modulation toward overall water splitting. <i>Journal of Colloid and Interface Science</i> , 2020, 562, 400-408.	5.0	29
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3057	Biomass activated carbon-decorated spherical $\dot{\gamma}$ -Ni(OH) <sub>2</sub> nanoparticles for enhanced hydrogen production from sulphide wastewater. <i>Journal of Water Process Engineering</i> , 2020, 38, 101669.	2.6	16
3058	Noble-Metal-Free Doped Carbon Nanomaterial Electrocatalysts. <i>Chemistry - A European Journal</i> , 2020, 26, 15397-15415.	1.7	28
3059	An Efficient Environmentally Friendly Composite Material Based on Carbonized Biological Cellulose/Paraffin: Thermal and Sustainable Properties Analysis. <i>ChemistrySelect</i> , 2020, 5, 12051-12056.	0.7	5
3060	Local structure engineering for active sites in fuel cell electrocatalysts. <i>Science China Chemistry</i> , 2020, 63, 1543-1556.	4.2	11
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3063	Preparation technologies and performance studies of tritium permeation barriers for future nuclear fusion reactors. <i>Surface and Coatings Technology</i> , 2020, 403, 126301.	2.2	22
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3065	Demonstration of communication-based three-layer control architecture for providing network services to distribution system operators. <i>International Transactions on Electrical Energy Systems</i> , 2020, 30, e12601.	1.2	0
3066	Design and operando/in situ characterization of precious-metal-free electrocatalysts for alkaline water splitting. , 2020, 2, 582-613.		105
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3069	Towards the high-energy-density battery with broader temperature adaptability: Self-discharge mitigation of quaternary nickel-rich cathode. <i>Energy Storage Materials</i> , 2020, 33, 239-249.	9.5	10
3070	A superb 3D composite lithium metal anode prepared by in-situ lithiation of sulfurized polyacrylonitrile. <i>Energy Storage Materials</i> , 2020, 33, 452-459.	9.5	14
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3076	Molten Lithium-Brass/Zinc Chloride System as High-Performance and Low-Cost Battery. <i>Matter</i> , 2020, 3, 1714-1724.	5.0	17
3077	Efficient room-temperature solid-state lithium ion conductors enabled by mixed-graft block copolymer architectures. <i>Giant</i> , 2020, 3, 100027.	2.5	29
3078	Enhanced hydrogen generation efficiency of methanol using dielectric barrier discharge plasma methodology and conducting sea water as an electrode. <i>Heliyon</i> , 2020, 6, e04717.	1.4	13
3079	Oxygen reduction reaction on nanostructured Pt-based electrocatalysts: A review. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 31775-31797.	3.8	127

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3082	Ultra-thin CdIn <sub>2</sub> S <sub>4</sub> nanosheets with nanoholes for efficient photocatalytic hydrogen evolution. <i>Optical Materials</i> , 2020, 108, 110231.	1.7	21
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#	ARTICLE	IF	CITATIONS
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3770	Porous Monolithic Electrode of Ni <sub>3</sub> FeN on 3D Graphene for Efficient Oxygen Evolution. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 5175-5181.	0.9	8
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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3906	WO <sub>x</sub> Surface Decorated PtNi@Pt Dendritic Nanowires as Efficient pH-Universal Hydrogen Evolution Electrocatalysts. <i>Advanced Energy Materials</i> , 2021, 11, 2003192.	10.2	82
3907	De novo synthesis of bifunctional conjugated microporous polymers for synergistic coordination mediated uranium entrapment. <i>Nano Research</i> , 2021, 14, 788-796.	5.8	20
3908	Carbon nanotube boosting electrocatalytic oxygen evolution of NiFe-polyphenol coordination catalyst through donor-acceptor modulation. <i>Journal of Colloid and Interface Science</i> , 2021, 582, 396-404.	5.0	13
3909	Anion-intercalated supercapacitor electrode based on perovskite-type SrB <sub>0.875</sub> Nb <sub>0.125</sub> O <sub>3</sub> (B <sup>A</sup> =Mn, Co). <i>Chemical Engineering Journal</i> , 2021, 421, 127790.	6.6	19
3910	Carbon dots for photocatalytic H <sub>2</sub> production in aqueous media with molecular Co catalysts. <i>Sustainable Energy and Fuels</i> , 2021, 5, 449-458.	2.5	13



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3912	Fuel cells as an advanced alternative energy source for the residential sector applications in Malaysia. <i>International Journal of Energy Research</i> , 2021, 45, 5032-5057.	2.2	14
3913	Economic operational analytics for energy storage placement at different grid locations and contingency scenarios with stochastic wind profiles. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 137, 110474.	8.2	13
3914	Insights into the Capacity and Rate Performance of Transition-Metal Coordination Compounds for Reversible Lithium Storage. <i>Angewandte Chemie</i> , 2021, 133, 4188-4195.	1.6	2
3915	Nb <sub>4</sub> C <sub>3</sub> T <sub>x</sub> (MXene) as a new stable catalyst for the hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 1955-1966.	3.8	62
3916	Metal-organic framework-derived porous carbon templates for catalysis. , 2021, , 73-121.		0
3917	Insights on the ethanol oxidation reaction at electrodeposited PdNi catalysts under conditions of increased mass transport. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 1615-1626.	3.8	18
3918	A new method for optimizing the preheating characteristics of storage tanks. <i>Renewable Energy</i> , 2021, 165, 25-36.	4.3	8
3919	A Molecular Dynamics Study of the Mechanical Properties of Ionic Copolymers during Tension-Recovery Deformation. <i>Macromolecular Theory and Simulations</i> , 2021, 30, 2000081.	0.6	1
3920	Highly-lithiophilic Ag@PDA-GO film to Suppress Dendrite Formation on Cu Substrate in Anode-free Lithium Metal Batteries. <i>Energy Storage Materials</i> , 2021, 35, 334-344.	9.5	91
3921	Selective adsorption of CO <sub>2</sub> from gas mixture by P-decorated C <sub>24</sub> N <sub>24</sub> fullerene assisted by an electric field: A DFT approach. <i>Journal of Molecular Graphics and Modelling</i> , 2021, 103, 107806.	1.3	18
3922	Vanadate-based electrodes for rechargeable batteries. <i>Materials Chemistry Frontiers</i> , 2021, 5, 1585-1609.	3.2	12
3923	Altering polythiophene derivative substrates to explore the mechanism of heterogeneous lithium nucleation for dendrite-free lithium metal anodes. <i>Journal of Energy Chemistry</i> , 2021, 59, 63-68.	7.1	13
3924	Ternary Al-Mg-Ag alloy promoted palladium nanoparticles as potential catalyst for enhanced electro-oxidation of ethanol. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 4036-4044.	3.8	8
3925	Ni(OH) <sub>2</sub> cathode with oxygen vacancies induced from electrooxidizing Ni <sub>3</sub> S <sub>2</sub> nanosheets for aqueous rechargeable Ni-Zn battery. <i>Journal of Alloys and Compounds</i> , 2021, 855, 157488.	2.8	16
3926	Hybrid electrochemical energy storage systems: An overview for smart grid and electrified vehicle applications. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 139, 110581.	8.2	97
3927	Partial-Single-Atom, Partial-Nanoparticle Composites Enhance Water Dissociation for Hydrogen Evolution. <i>Advanced Science</i> , 2021, 8, 2001881.	5.6	85
3928	Recent advances of metal-organic frameworks and their composites toward oxygen evolution electrocatalysis. <i>Materials Today Energy</i> , 2021, 19, 100597.	2.5	34

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3930	Isopropanol dehydration reaction rate kinetics measurement using H <sub>2</sub> O time histories. <i>International Journal of Chemical Kinetics</i> , 2021, 53, 536-547.	1.0	4
3931	Direct ethanol fuel cells (DEFCs). , 2021, , 95-113.		4
3932	Effect of phosphoric acid-doped polybenzimidazole membranes on the performance of H <sup>+</sup> -ion concentration cell. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 4354-4364.	3.8	5
3933	Integrating hydrogen production with anodic selective oxidation of sulfides over a CoFe layered double hydroxide electrode. <i>Chemical Science</i> , 2021, 12, 938-945.	3.7	41
3934	Synergistic two- and three-dimensional morphology engineering of pyrite-type CoPS to boost hydrogen evolution over wide pH range. <i>Journal of Power Sources</i> , 2021, 484, 229144.	4.0	7
3935	Artificial Heterointerfaces Achieve Delicate Reaction Kinetics towards Hydrogen Evolution and Hydrazine Oxidation Catalysis. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5984-5993.	7.2	234
3936	Controlling Solar Hydrogen Production by Organizing Porphyrins. <i>ChemSusChem</i> , 2021, 14, 961-970.	3.6	15
3937	Interfacial engineering of Cu <sub>2</sub> Se/Co <sub>3</sub> Se <sub>4</sub> multivalent hetero-nanocrystals for energy-efficient electrocatalytic co-generation of value-added chemicals and hydrogen. <i>Applied Catalysis B: Environmental</i> , 2021, 285, 119800.	10.8	51
3938	One-pot synthesis of CoO@ZnO/rGO supported on Ni foam for high-performance hybrid supercapacitor with greatly enhanced cycling stability. <i>Chinese Chemical Letters</i> , 2021, 32, 2027-2032.	4.8	11
3939	Strain engineered gas-consumption electroreduction reactions: Fundamentals and perspectives. <i>Coordination Chemistry Reviews</i> , 2021, 429, 213649.	9.5	6
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3941	A novel fabricated conductive substrate for enhancing the mass loading of NiCoLDH nanosheets for high areal specific capacity in hybrid supercapacitors. <i>Electrochimica Acta</i> , 2021, 368, 137621.	2.6	20
3942	Boosting zinc-ion intercalation in hydrated MoS <sub>2</sub> nanosheets toward substantially improved performance. <i>Energy Storage Materials</i> , 2021, 35, 731-738.	9.5	106
3943	Screening metal-organic frameworks for adsorption-driven osmotic heat engines via grand canonical Monte Carlo simulations and machine learning. <i>IScience</i> , 2021, 24, 101914.	1.9	24
3944	3D self-supporting heterostructure NiCo-LDH/ZnO/CC electrode for flexible high-performance supercapacitor. <i>Journal of Alloys and Compounds</i> , 2021, 857, 158275.	2.8	29
3945	Review and analysis of energy harvesting technologies in roadway transportation. <i>Journal of Cleaner Production</i> , 2021, 288, 125338.	4.6	30
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3949	Targeted poverty alleviation through photovoltaic-based intervention: Rhetoric and reality in Qinghai, China. <i>World Development</i> , 2021, 137, 105117.	2.6	44
3950	Two-dimensional matrices confining metal single atoms with enhanced electrochemical reaction kinetics for energy storage applications. <i>Energy and Environmental Science</i> , 2021, 14, 1794-1834.	15.6	45
3951	Artificial Heterointerfaces Achieve Delicate Reaction Kinetics towards Hydrogen Evolution and Hydrazine Oxidation Catalysis. <i>Angewandte Chemie</i> , 2021, 133, 6049-6058.	1.6	42
3952	Immobilization of trophic anaerobic acetogen for semi-continuous syngas fermentation. <i>Chinese Journal of Chemical Engineering</i> , 2021, 29, 311-316.	1.7	2
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3958	Challenges and Opportunities in Utilizing MXenes of Carbides and Nitrides as Electrocatalysts. <i>Advanced Energy Materials</i> , 2021, 11, 2002967.	10.2	94
3959	A Fe-Ni <sub>5</sub> P <sub>4</sub> /Fe-Ni <sub>2</sub> P heterojunction electrocatalyst for highly efficient solar-to-hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 1221-1229.	5.2	33
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3961	Metamaterial and Helmholtz coupled resonator for high-density acoustic energy harvesting. <i>Nano Energy</i> , 2021, 82, 105693.	8.2	56
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3963	Beyond traditional water splitting for energy-efficient waste-to-hydrogen conversion with an inorganic-carbon hybrid nanosheet electrocatalyst. <i>Journal of Materials Chemistry A</i> , 2021, 9, 5364-5373.	5.2	5
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#	ARTICLE	IF	CITATIONS
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3967	Visible-Light Responsive TiO <sub>2</sub> -Based Materials for Efficient Solar Energy Utilization. <i>Advanced Energy Materials</i> , 2021, 11, 2003303.	10.2	118
3968	Redox mediator assists electron transfer in lithium-sulfur batteries with sulfurized polyacrylonitrile cathodes. <i>EcoMat</i> , 2021, 3, e12066.	6.8	69
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3970	Investigating the effects of ZnO dopant on the thermodynamic and kinetic properties of CaCO <sub>3</sub> /CaO TCES system. <i>Energy</i> , 2021, 215, 119132.	4.5	30
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3974	Visible-Light Photocatalytic CO <sub>2</sub> Reduction Using Metal-Organic Framework Derived Ni(OH) <sub>2</sub> Nanocages: A Synergy from Multiple Light Reflection, Static Charge Transfer, and Oxygen Vacancies. <i>ACS Catalysis</i> , 2021, 11, 345-354.	5.5	117
3975	Construction and evolution of active palladium species on phase-regulated reducible TiO <sub>2</sub> for methane combustion. <i>Catalysis Science and Technology</i> , 2021, 11, 836-845.	2.1	10
3976	Atomically dispersed Rh-doped NiFe layered double hydroxides: precise location of Rh and promoting hydrazine electrooxidation properties. <i>Nanoscale</i> , 2021, 13, 1869-1874.	2.8	22
3977	Design of hollow carbon-based materials derived from metal-organic frameworks for electrocatalysis and electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2021, 9, 3880-3917.	5.2	117
3978	Alloying Nickel with Molybdenum Significantly Accelerates Alkaline Hydrogen Electrocatalysis. <i>Angewandte Chemie</i> , 2021, 133, 5835-5841.	1.6	37
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3982	Alloying Nickel with Molybdenum Significantly Accelerates Alkaline Hydrogen Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5771-5777.	7.2	182

#	ARTICLE	IF	CITATIONS
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3984	Energy-efficient design, consumer awareness, and public policy. <i>SERIEs</i> , 2021, 12, 231-254.	0.7	4
3985	Literature review on renewable energy development and China's roadmap. <i>Frontiers of Engineering Management</i> , 2021, 8, 212-222.	3.3	33
3986	Controlled synthesis of hierarchical hollow CoLDH nanocages electrocatalysts for oxygen evolution reaction. <i>Chemical Physics</i> , 2021, 541, 111011.	0.9	4
3987	Facile synthesis of polyoxometalate-based composite with doped ternary NiCoFe cations as electrocatalyst for oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 449-457.	3.8	12
3988	Advanced Oxygen Electrocatalysis in Energy Conversion and Storage. <i>Advanced Functional Materials</i> , 2021, 31, 2007602.	7.8	86
3989	Reconstructed Water Oxidation Electrocatalysts: The Impact of Surface Dynamics on Intrinsic Activities. <i>Advanced Functional Materials</i> , 2021, 31, 2008190.	7.8	161
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3995	Preparation of Cu-doped ZnO nanoparticles via layered double hydroxide and application for dye-sensitized solar cells. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 150, 109833.	1.9	37
3996	Exploiting Ru-induced Lattice Strain in CoRu Nanoalloys for Robust Bifunctional Hydrogen Production. <i>Angewandte Chemie</i> , 2021, 133, 3327-3335.	1.6	189
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3998	Exploiting Ru-induced Lattice Strain in CoRu Nanoalloys for Robust Bifunctional Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3290-3298.	7.2	254
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4002	The effect of various cations/anions for MgH <sub>2</sub> hydrolysis reaction. <i>Journal of Materials Science and Technology</i> , 2021, 73, 186-192.	5.6	26
4003	Electrocatalytic water-splitting for the controllable and sustainable synthesis of deuterated chemicals. <i>Science Bulletin</i> , 2021, 66, 562-569.	4.3	38
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4006	Single copper sites dispersed on hierarchically porous carbon for improving oxygen reduction reaction towards zinc-air battery. <i>Nano Research</i> , 2021, 14, 998-1003.	5.8	50
4007	Recent advances in metals and metal oxides as catalysts for vanadium redox flow battery: Properties, structures, and perspectives. <i>Journal of Materials Science and Technology</i> , 2021, 75, 96-109.	5.6	95
4008	Improved electrochemical performance of Bi doped La <sub>0.8</sub> Sr <sub>0.2</sub> FeO <sub>3-<math>\delta</math></sub> nanofiber cathode for IT-SOFCs via electrospinning. <i>Ceramics International</i> , 2021, 47, 534-540.	2.3	23
4009	Lithium/Sulfide All-Solid-State Batteries using Sulfide Electrolytes. <i>Advanced Materials</i> , 2021, 33, e2000751.	11.1	356
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4014	Controllable synthesis of grain boundary-enriched Pt nanoworms decorated on graphitic carbon nanosheets for ultrahigh methanol oxidation catalytic activity. <i>Journal of Energy Chemistry</i> , 2021, 57, 601-609.	7.1	106
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4022	A Survey on Electric Buses' Energy Storage, Power Management, and Charging Scheduling. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021, 22, 9-22.	4.7	45
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4025	Supercapacitors based on MXenes (transition metal carbides and nitrides) and their hybrids. , 2021, , 217-233.		0
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4029	The influence of pore structures and Lewis acid sites on selective hydrogenolysis of guaiacol to benzene over Ru/TS-1. <i>Green Energy and Environment</i> , 2022, 7, 1014-1023.	4.7	15
4030	Surface Modifications of 2D-Ti3C2O2 by Nonmetal Doping for Obtaining High Hydrogen Evolution Reaction Activity: A Computational Approach. <i>Catalysts</i> , 2021, 11, 161.	1.6	4
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4040	Free-standing electrochemically coated MoS <sub>x</sub> based 3D-printed nanocarbon electrode for solid-state supercapacitor application. <i>Nanoscale</i> , 2021, 13, 5744-5756.	2.8	52
4041	A MOF-74(Ni) derived partially oxidized Ni@C catalyst for SO <sub>2</sub> electro-oxidation integrated with solar driven hydrogen evolution. <i>Sustainable Energy and Fuels</i> , 2021, 5, 3588-3592.	2.5	3
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4048	Ultrafine CoRu alloy nanoparticles <i>in situ</i> embedded in Co <sub>4</sub> N porous nanosheets as high-efficient hydrogen evolution electrocatalysts. <i>Dalton Transactions</i> , 2021, 50, 2973-2980.	1.6	17
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4060	The lithium metal anode in Li-ion batteries: challenges and recent progress. <i>Journal of Materials Chemistry A</i> , 2021, 9, 10012-10038.	5.2	45
4061	Amorphous Dual-Layer Coating: Enabling High Li-ion Conductivity of Non-Sintered Garnet-Type Solid Electrolyte. <i>Advanced Functional Materials</i> , 2021, 31, 2009692.	7.8	42
4062	Development of dye sensitized solar cells. <i>E3S Web of Conferences</i> , 2021, 261, 01046.	0.2	0
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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4426	Economic scheduling of compressed natural gas main station considering critical peak pricing. <i>Applied Energy</i> , 2021, 292, 116937.	5.1	5
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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4459	Effect of irradiation damage and indenter radius on pop-in and indentation stress-strain relations: Crystal plasticity finite element simulation. <i>International Journal of Mechanical Sciences</i> , 2021, 199, 106430.	3.6	12
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4470	Review on form-stable inorganic hydrated salt phase change materials: Preparation, characterization and effect on the thermophysical properties. <i>Applied Energy</i> , 2021, 292, 116845.	5.1	128
4471	Engineering NiCoP arrays by cross-linked nanowires and nanosheets as advanced materials for hybrid supercapacitors. <i>Journal of Energy Storage</i> , 2021, 38, 102503.	3.9	44
4472	Decorating ZIF-67-derived cobalt-nitrogen doped carbon nanocapsules on 3D carbon frameworks for efficient oxygen reduction and oxygen evolution. <i>Carbon</i> , 2021, 177, 344-356.	5.4	67
4473	Polysulfone and organo-modified graphene oxide for new hybrid proton exchange membranes: A green alternative for high-efficiency PEMFCs. <i>Electrochimica Acta</i> , 2021, 380, 138214.	2.6	28

#	ARTICLE	IF	CITATIONS
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4475	Pentadentate Copper(II)-amidate complex as a precatalyst for electrocatalytic proton reduction. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 21542-21548.	3.8	1
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4478	N-doped carbon nanotube arrays on reduced graphene oxide as multifunctional materials for energy devices and absorption of electromagnetic wave. <i>Carbon</i> , 2021, 177, 216-225.	5.4	88
4479	Cu <sup>2+</sup> -Guided Construction of the Amorphous CoMoO <sub>3</sub> /Cu Nanocomposite for Highly Efficient Water Electrolysis. <i>ACS Applied Energy Materials</i> , 2021, 4, 6740-6748.	2.5	8
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4481	Nitrogen and Oxygen Functionalization of Multi-Walled Carbon Nanotubes for Tuning the Bifunctional Oxygen Reduction/Oxygen Evolution Performance of Supported FeCo Oxide Nanoparticles. <i>ChemElectroChem</i> , 2021, 8, 2803-2816.	1.7	13
4482	Ionic liquid-based solid electrolytes (ionogels) for application in rechargeable lithium battery. <i>Materials Today Energy</i> , 2021, 20, 100643.	2.5	42
4483	Carboxyl groups on g-C <sub>3</sub> N <sub>4</sub> for boosting the photocatalytic U(VI) reduction in the presence of carbonates. <i>Chemical Engineering Journal</i> , 2021, 414, 128810.	6.6	81
4484	The bifunctional performance analysis of synthesized Ce doped SnO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> composites for asymmetric supercapacitor and visible light photocatalytic applications. <i>Journal of Alloys and Compounds</i> , 2021, 866, 158807.	2.8	68
4485	Electrocatalytic performance of NiNH <sub>2</sub> BDC MOF based composites with rGO for methanol oxidation reaction. <i>Scientific Reports</i> , 2021, 11, 13402.	1.6	28
4486	<i>In Situ</i> Synthesis of NiO/CuO Nanosheet Heterostructures Rich in Defects for Efficient Electrocatalytic Oxygen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2021, 125, 16516-16523.	1.5	11
4487	Significant enhancement of thermoelectric properties of conducting PTB7 polymer by addition of appropriate dopants. <i>Journal of Applied Polymer Science</i> , 2021, 138, 51378.	1.3	0
4488	Techno-economic assessment of low-temperature carbon dioxide electrolysis. <i>Nature Sustainability</i> , 2021, 4, 911-919.	11.5	242
4489	Ultrafast fabrication of porous transition metal foams for efficient electrocatalytic water splitting. <i>Applied Catalysis B: Environmental</i> , 2021, 288, 120002.	10.8	98
4490	Power System Dispatch With Marginal Degradation Cost of Battery Storage. <i>IEEE Transactions on Power Systems</i> , 2021, 36, 3552-3562.	4.6	16
4491	Metal oxides as electrocatalysts for water splitting: On plasmon-driven enhanced activity. <i>Electrochemical Science Advances</i> , 2022, 2, e2100079.	1.2	7



#	ARTICLE	IF	CITATIONS
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4508	Electronic Coupling of Single Atom and FePS <sub>3</sub> Boosts Water Electrolysis. Energy and Environmental Materials, 2022, 5, 899-905.	7.3	16
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4511	Single-atom Fe-N-G as an efficient electrocatalyst for oxygen reduction reaction. <i>Journal of Electroanalytical Chemistry</i> , 2021, 892, 115271.	1.9	6
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4516	Ultrasonic Metal Welding of Multilayered Copper Foils to Nickel-Plated Copper Sheet in Lithium-Ion Battery Cell. <i>Metals</i> , 2021, 11, 1195.	1.0	12
4517	Engineering single-atomic ruthenium catalytic sites on defective nickel-iron layered double hydroxide for overall water splitting. <i>Nature Communications</i> , 2021, 12, 4587.	5.8	401
4518	Ni(OH) <sub>2</sub> Templated Synthesis of Ultrathin Ni <sub>3</sub> S <sub>2</sub> Nanosheets as Bifunctional Electrocatalyst for Overall Water Splitting. <i>Small</i> , 2021, 17, e2102097.	5.2	54
4519	Engineering Ruthenium-Based Electrocatalysts for Effective Hydrogen Evolution Reaction. <i>Nano-Micro Letters</i> , 2021, 13, 160.	14.4	142
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4524	Metal-Organic Framework Derived Nanostructured Bifunctional Electrocatalysts for Water Splitting. <i>ChemElectroChem</i> , 2021, 8, 3782-3803.	1.7	14
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#	ARTICLE	IF	CITATIONS
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4529	ZnFe <sub>2</sub> O <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> S-scheme photocatalyst with enhanced adsorption and photocatalytic activity for uranium(VI) removal. <i>Chemical Engineering Journal</i> , 2021, 415, 129002.	6.6	149
4530	Thermoelectric performance of binary lithium-based compounds: Li <sub>3</sub> Sb and Li <sub>3</sub> Bi. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	7
4531	Role of graphene in improving catalytic behaviors of AuNPs/MoS <sub>2</sub> /Gr/Ni-F structure in hydrogen evolution reaction*. <i>Chinese Physics B</i> , 2021, 30, 088801.	0.7	2
4532	Physical and Interfacial Studies on Li <sub>0.5</sub> La <sub>0.5</sub> TiO <sub>3</sub> - Incorporated Poly(ethylene oxide)-Based Electrolytes for All-Solid-State Lithium Batteries. <i>Energy &amp; Fuels</i> , 2021, 35, 13402-13410.	2.5	5
4533	Bilateral Interfaces in In <sub>2</sub> Se <sub>3</sub> -CoIn <sub>2</sub> -CoSe <sub>2</sub> Heterostructures for High-Rate Reversible Sodium Storage. <i>ACS Nano</i> , 2021, 15, 13307-13318.	7.3	99
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4535	High-performance salt-resistant solar interfacial evaporation by flexible robust porous carbon/pulp fiber membrane. <i>Science China Materials</i> , 2022, 65, 201-212.	3.5	32
4537	Suppressing the metal-metal interaction by CoZn <sub>0.5</sub> V <sub>1.5</sub> O <sub>4</sub> derived from two-dimensional metal-organic frameworks for supercapacitors. <i>Science China Materials</i> , 2022, 65, 105-114.	3.5	14
4538	Hotspots, frontiers, and emerging trends of tandem solar cell research: A comprehensive review. <i>International Journal of Energy Research</i> , 2022, 46, 104-123.	2.2	12
4539	Engineering of aerogel-based electrocatalysts for oxygen evolution reaction. <i>Electrochemical Science Advances</i> , 2022, 2, e2100113.	1.2	1
4540	An engineered cellobiohydrolase I for sustainable degradation of lignocellulosic biomass. <i>Biotechnology and Bioengineering</i> , 2021, 118, 4014-4027.	1.7	11
4541	Emerging Dual-Atomic-Site Catalysts for Efficient Energy Catalysis. <i>Advanced Materials</i> , 2021, 33, e2102576.	11.1	226
4542	A Flexible Multifunctional Triboelectric Nanogenerator Based on MXene/PVA Hydrogel. <i>Advanced Functional Materials</i> , 2021, 31, 2104928.	7.8	259
4543	Effect of current-induced ion transfer on the electrical resistance of reverse electro dialysis stack by chronopotentiometry. <i>Electrochimica Acta</i> , 2021, 385, 138446.	2.6	2
4544	A robust rolling-mode direct-current triboelectric nanogenerator arising from electrostatic breakdown effect. <i>Nano Energy</i> , 2021, 85, 106014.	8.2	34
4545	Preparation of 0D/2D ZnFe <sub>2</sub> O <sub>4</sub> /Fe-doped g-C <sub>3</sub> N <sub>4</sub> hybrid photocatalysts for visible light N <sub>2</sub> fixation. <i>Journal of Alloys and Compounds</i> , 2021, 869, 158809.	2.8	23
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#	ARTICLE	IF	CITATIONS
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4548	Vacancies and phosphorus atoms assembled in amorphous urchin-like Co <sub>3</sub> O <sub>4</sub> for highly efficient overall water splitting. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 24117-24127.	3.8	13
4549	One-Compartment InGaN Nanowire Fuel Cell in the Light and Dark Operating Modes. <i>ACS Omega</i> , 2021, 6, 17464-17471.	1.6	3
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4552	Cr <sup>3+</sup> Ion-Induced Phase Stabilization of 1T <sup>~</sup> MoSe <sub>2</sub> with Abundant Active Sites for Efficient Hydrogen Evolution Reaction. <i>ChemNanoMat</i> , 2021, 7, 1063-1071.	1.5	8
4553	Iridium-containing water-oxidation catalysts in acidic electrolyte. <i>Chinese Journal of Catalysis</i> , 2021, 42, 1054-1077.	6.9	66
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4557	Defect and Doping Engineered Penta-graphene for Catalysis of Hydrogen Evolution Reaction. <i>Nanoscale Research Letters</i> , 2021, 16, 130.	3.1	19
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4559	Support induced phase engineering toward superior electrocatalyst. <i>Nano Research</i> , 2022, 15, 1831-1837.	5.8	13
4560	Electrocatalytic acidic oxygen evolution reaction: From nanocrystals to single atoms. <i>Aggregate</i> , 2021, 2, e106.	5.2	27
4561	Computational identification of efficient 2D Aluminium chalcogenides monolayers for optoelectronics and photocatalysts applications. <i>Applied Surface Science</i> , 2021, 556, 149561.	3.1	31
4562	Nitrogen-Doped Cobalt Diselenide with Cubic Phase Maintained for Enhanced Alkaline Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 21575-21582.	7.2	94
4563	Phase change material-based thermal energy storage. <i>Cell Reports Physical Science</i> , 2021, 2, 100540.	2.8	51
4564	Theoretical screening of 2D materials supported transition-metal single atoms as efficient electrocatalysts for hydrogen evolution reaction. <i>Materialia</i> , 2021, 18, 101168.	1.3	4

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4567	Metal-Organic Framework Based Functional Materials for Uranium Recovery: Performance Optimization and Structure/Functionality-Activity Relationships. <i>ChemPlusChem</i> , 2021, 86, 1177-1192.	1.3	25
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4569	A comparative study of the effect of phase change material (paraffin wax) on volumetric and surface direct solar steam generation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 128, 253-260.	2.7	20
4570	Facile synthesis of bimetallic N-doped carbon hybrid material for electrochemical nitrogen reduction. <i>Journal of Energy Chemistry</i> , 2021, 59, 715-720.	7.1	10
4571	Density Functional Theory for Electrocatalysis. <i>Energy and Environmental Materials</i> , 2022, 5, 157-185.	7.3	95
4572	Electrochemical release of catalysts in nanoreactors for solid sulfur redox reactions in room-temperature sodium-sulfur batteries. <i>Cell Reports Physical Science</i> , 2021, 2, 100539.	2.8	20
4573	Tailored ZnO Nanostructure Based Quasi-Solid-State Electrolyte and Mesoporous Carbon Electrocatalyst for Solar Energy Conversion. <i>ECS Journal of Solid State Science and Technology</i> , 2021, 10, 085005.	0.9	2
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4576	L-malic acid production from xylose by engineered <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Journal</i> , 2022, 17, e2000431.	1.8	16
4577	Grown of superlubricity a-C:H/MoS <sub>2</sub> film on 9Cr18Mo steel for industrial application. <i>Diamond and Related Materials</i> , 2021, 117, 108479.	1.8	13
4578	Operando Identification of Hydrangea-like and Amorphous Cobalt Oxyhydroxide Supported by Thin-Layer Copper for Oxygen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 12300-12310.	3.2	21
4579	Recent progress in thermal and optical enhancement of low temperature solar collector. <i>Energy Systems</i> , 2023, 14, 1-40.	1.8	7
4580	Review of the Influence of Oxygenated Additives on the Combustion Chemistry of Hydrocarbons. <i>Energy &amp; Fuels</i> , 2021, 35, 13550-13568.	2.5	33
4581	Emerging technologies for conversion of sustainable algal biomass into value-added products: A state-of-the-art review. <i>Science of the Total Environment</i> , 2021, 784, 147024.	3.9	43
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4587	Electrolyte Design Enabling a High-Safety and High-Performance Si Anode with a Tailored Electrode-Electrolyte Interphase. <i>Advanced Materials</i> , 2021, 33, e2103178.	11.1	135
4588	Recent Progress on Structurally Ordered Materials for Electrocatalysis. <i>Advanced Energy Materials</i> , 2021, 11, 2101937.	10.2	65
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4592	Host, Suppressor, and Promoter-The Roles of Ni and Fe on Oxygen Evolution Reaction Activity and Stability of NiFe Alloy Thin Films in Alkaline Media. <i>ACS Catalysis</i> , 2021, 11, 10537-10552.	5.5	98
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4594	Enhanced ability of magnesium silicate hydroxide in transforming base oil into amorphous carbon by annealing heat treatment. <i>Diamond and Related Materials</i> , 2021, 117, 108476.	1.8	6
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4598	Grotthuss Proton-Conductive Covalent Organic Frameworks for Efficient Proton Pseudocapacitors. <i>Angewandte Chemie</i> , 2021, 133, 22009-22016.	1.6	20
4599	Interface-engineered Co <sub>3</sub> S <sub>4</sub> /CoMoS <sub>4</sub> nanosheets as efficient bifunctional electrocatalysts for alkaline overall water splitting. <i>Nanotechnology</i> , 2021, 32, 455706.	1.3	5
4600	Three-dimensional Li-ion transportation in Li <sub>2</sub> MnO <sub>3</sub> -integrated LiNi <sub>0.8</sub> Co <sub>0.1</sub> Mn <sub>0.1</sub> O <sub>2</sub> . <i>Journal of Energy Chemistry</i> , 2021, 63, 376-384.	7.1	12

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4602	Advances of High-Performance Triboelectric Nanogenerators for Blue Energy Harvesting. <i>Nanoenergy Advances</i> , 2021, 1, 32-57.	3.6	40
4603	Application of X-ray Absorption Spectroscopy in Electrocatalytic Water Splitting and CO <sub>2</sub> Reduction. <i>Small Science</i> , 2021, 1, 2100023.	5.8	16
4604	Multifunctional Metal Phosphides as Superior Host Materials for Advanced Lithium-Sulfur Batteries. <i>Chemistry - A European Journal</i> , 2021, 27, 13494-13512.	1.7	15
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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4807	Piezoelectric-piezocapacitive hybrid sensor based on electrospun Poly(vinylidene fluoride) /Overlock 10 Tf 50 427 Td (fluoride) Sensors and Actuators A: Physical, 2021, 331, 112993.	2.0	11
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4816	Decoration of Ru/RuO <sub>2</sub> hybrid nanoparticles on MoO <sub>2</sub> plane as bifunctional electrocatalyst for overall water splitting. <i>Journal of Colloid and Interface Science</i> , 2021, 604, 508-516.	5.0	23

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4820	Highly controlled synthesis of nanoprickly nickel@nickel oxide formed on carbon black/reduced graphene oxide nanosheets: Charge-storage performance and electrocatalytic activity for methanol oxidation. <i>Journal of Alloys and Compounds</i> , 2021, 886, 161236.	2.8	7
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4826	Stone-Wales defect-rich carbon-supported dual-metal single atom sites for Zn-air batteries. <i>Nano Energy</i> , 2021, 90, 106488.	8.2	55
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4829	Chitosan-based aerogel with anti-swelling for U(VI) adsorption from aqueous solution. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 630, 127527.	2.3	20
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4833	Failure of cathode gas diffusion layer in 1ÂkW fuel cell stack under new European driving cycle. <i>Applied Energy</i> , 2021, 303, 117688.	5.1	10
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4837	Tuning of crystal phase of nickel telluride nanosheets to construct superior electrocatalyst for hydrogen evolution. <i>Journal of Alloys and Compounds</i> , 2022, 891, 161955.	2.8	10
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4839	Application of carbon dots and their composite materials for the detection and removal of radioactive ions: A review. <i>Chemosphere</i> , 2022, 287, 132313.	4.2	82
4840	A zinc ion hybrid capacitor based on sharpened pencil-like hierarchically porous carbon derived from metal-organic framework. <i>Chemical Engineering Journal</i> , 2022, 428, 131071.	6.6	30
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4842	Evolution of coke structures during electrochemical upgrading of bio-oil. <i>Fuel Processing Technology</i> , 2022, 225, 107036.	3.7	11
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4848	An eco-friendly and efficient trigeneration system for dual-fuel marine engine considering heat storage and energy deployment. <i>Energy</i> , 2022, 239, 121930.	4.5	3
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4852	Superfast and solvent-free core-shell assembly of sulfur/carbon active particles by hail-inspired nanostorm technology for high-energy-density Li-S batteries. <i>Journal of Energy Chemistry</i> , 2022, 65, 565-573.	7.1	11

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4854	Metal-Organic-Framework-Derived Cobalt nanoparticles encapsulated in Nitrogen-Doped carbon nanotubes on Ni foam integrated Electrode: Highly electroactive and durable catalysts for overall water splitting. <i>Journal of Colloid and Interface Science</i> , 2022, 606, 38-46.	5.0	23
4855	Monolayer MoSi <sub>2</sub> N <sub>4</sub> as promising electrocatalyst for hydrogen evolution reaction: A DFT prediction. <i>Journal of Materials Science and Technology</i> , 2022, 99, 215-222.	5.6	31
4856	Molybdenum oxide-iron, cobalt, copper alloy hybrid as efficient bifunctional catalyst for alkali water electrolysis. <i>Journal of Colloid and Interface Science</i> , 2022, 606, 1662-1672.	5.0	19
4857	Digitalization: Enabler of Systemic Energy Efficiency. <i>Encyclopedia of the UN Sustainable Development Goals</i> , 2021, , 275-284.	0.0	0
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4861	Hole-rich CoP nanosheets with an optimized d-band center for enhancing pH-universal hydrogen evolution electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2021, 9, 8561-8567.	5.2	66
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4864	Stimuli responsive multicolour fluorescence emission in carbon nanodots and application in metal free hydrogen evolution from water. <i>Nanoscale Advances</i> , 2021, 3, 611-617.	2.2	9
4865	Sulfonated perylene-based conjugated microporous polymer as a high-performance adsorbent for photo-enhanced uranium extraction from seawater. <i>Polymer Chemistry</i> , 2021, 12, 867-875.	1.9	29
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4867	Nb-Doped nickel nitride-derived catalysts for electrochemical water splitting. <i>Catalysis Science and Technology</i> , 2021, 11, 6455-6461.	2.1	6
4868	Strong electrostatic adsorption-engaged fabrication of sub-3.0 nm PtRu alloy nanoparticles as synergistic electrocatalysts toward hydrogen evolution. <i>Nanoscale</i> , 2021, 13, 10044-10050.	2.8	18
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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5248	Construction of SbVO <sub>4</sub> @Co Foam Heterostructure as Efficient (Photo)electrocatalyst for Oxygen Evolution Reaction. <i>Journal of Electronic Materials</i> , 0, , 1.	1.0	1
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5260	Electrocatalytic carbon dioxide reduction in acid. <i>Chem Catalysis</i> , 2022, 2, 29-38.	2.9	23
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#	ARTICLE	IF	CITATIONS
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5267	Ce and MoS <sub>2</sub> dual-doped cobalt aluminum layered double hydroxides for enhanced oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 1644-1655.	3.8	17
5268	Atomic-Scale Observations of the Manganese Porphyrin/Au Catalyst Interface Under the Electrocatalytic Process Revealed with Electrochemical Scanning Tunneling Microscopy. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100873.	1.9	6
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5270	Sucralose-Derived Solid Acid Catalysts Highly Selective Production of Cellulosic Hydrolysate: Source for Microbial Lipid Synthesis. <i>Waste and Biomass Valorization</i> , 0, , 1.	1.8	0
5271	Asymmetric polyoxometalate-polypyrrole composite electrode material for electrochemical energy storage supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2022, 904, 115856.	1.9	24
5272	Effective inspissation of uranium(VI) from radioactive wastewater using flow electrode capacitive deionization. <i>Separation and Purification Technology</i> , 2022, 283, 120172.	3.9	37
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5277	Rapid microwave-assisted synthesis of MnCo <sub>2</sub> O <sub>4</sub> nanoflakes as a cathode for battery-supercapacitor hybrid. <i>Journal of Energy Storage</i> , 2021, 44, 103566.	3.9	30
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5279	Current-Corrected Cycling Strategies for True Electrode Performance Measurement. <i>Batteries and Supercaps</i> , 0, , .	2.4	1
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#	ARTICLE	IF	CITATIONS
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5287	Electrochemical capacitive performance of thermally evaporated Al-doped CuI thin films. <i>RSC Advances</i> , 2021, 11, 39262-39269.	1.7	12
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5292	Recent advances in photo-assisted electrocatalysts for energy conversion. <i>Journal of Materials Chemistry A</i> , 2021, 9, 27193-27214.	5.2	19
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#	ARTICLE	IF	CITATIONS
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5305	An Effective Designing of Supercapacitor Mitigating Self-Discharge. <i>Key Engineering Materials</i> , 0, 905, 147-159.	0.4	0
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5312	Two-dimensional MXenes for electrochemical energy storage applications. <i>Journal of Materials Chemistry A</i> , 2022, 10, 1105-1149.	5.2	63
5313	Recent progress on porous carbon and its derivatives from plants as advanced electrode materials for supercapacitors. <i>Journal of Power Sources</i> , 2022, 520, 230886.	4.0	173
5314	Polymerization during low-temperature electrochemical upgrading of bio-oil: Multi-technique characterization of bio-oil evolution. <i>Energy Conversion and Management</i> , 2022, 253, 115165.	4.4	12
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#	ARTICLE	IF	CITATIONS
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5321	Advances in and prospects of nanomaterials' morphological control for lithium rechargeable batteries. <i>Nano Energy</i> , 2022, 93, 106860.	8.2	40
5322	Sc-functionalized porphyrin-like porous fullerene for CO <sub>2</sub> storage and separation: A first-principles evaluation. <i>Journal of Molecular Graphics and Modelling</i> , 2022, 111, 108112.	1.3	3
5323	All-in-one polymer sponge composite 3D evaporators for simultaneous high-flux solar-thermal desalination and electricity generation. <i>Nano Energy</i> , 2022, 93, 106882.	8.2	87
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5466	Electrodeposition of NiFe-layered double hydroxide layer on sulfur-modified nickel molybdate nanorods for highly efficient seawater splitting. <i>Journal of Colloid and Interface Science</i> , 2022, 613, 349-358.	5.0	58
5467	Pt-Co single atom alloy catalysts: Accelerated water dissociation and hydrogen evolution by strain regulation. <i>Journal of Energy Chemistry</i> , 2022, 69, 44-53.	7.1	31
5468	Sulfur vacancy-rich ZnIn <sub>2</sub> S <sub>4</sub> nanosheet arrays for visible-light-driven water splitting. <i>Materials Science in Semiconductor Processing</i> , 2022, 143, 106547.	1.9	14
5469	Separator engineering toward practical Li-S batteries: Targeted electrocatalytic sulfur conversion, lithium plating regulation, and thermal tolerance. <i>Nano Energy</i> , 2022, 95, 106982.	8.2	42
5470	Engineering the interplanar spacing of K-birnessite for ultra-long cycle Zn-ion battery through a hydrothermal potassium insertion strategy. <i>Chemical Engineering Journal</i> , 2022, 435, 134754.	6.6	9
5471	Structural, electro-chemical and conduction mechanism in spinel NiFe <sub>2</sub> O <sub>4</sub> /NFO supercapacitor electrode material. <i>Materials Science in Semiconductor Processing</i> , 2022, 143, 106543.	1.9	10
5472	Graphene aerogel-based NiAl-LDH/g-C <sub>3</sub> N <sub>4</sub> with ultratight sheet-sheet heterojunction for excellent visible-light photocatalytic activity of CO <sub>2</sub> reduction. <i>Applied Catalysis B: Environmental</i> , 2022, 306, 121065.	10.8	139
5473	In-situ construction of N-doped carbon nanosnakes encapsulated FeCoSe nanoparticles as efficient bifunctional electrocatalyst for overall water splitting. <i>Journal of Energy Chemistry</i> , 2022, 68, 699-708.	7.1	31
5474	Superaerophobic/superhydrophilic surfaces as advanced electrocatalysts for the hydrogen evolution reaction: a comprehensive review. <i>Journal of Materials Chemistry A</i> , 2022, 10, 5147-5173.	5.2	83
5475	Advancement in electrode materials and membrane separators for scaling up of MES. , 2022, , 161-172.		1
5476	Mass-Productible Energy Generator with Nano Gap For Direct Electrification From Low-Grade Heat. , 2022, , .		1
5477	é”ç¡«ç”µæ±ç»¼4âœ€Sèf1/2âœ€Eæâ†ç-ç•¥. <i>Chinese Science Bulletin</i> , 2022, , .	0.4	1
5478	Stable Li metal anode in a lithiophilic shuttle. <i>Nanoscale</i> , 2022, 14, 3935-3945.	2.8	1
5479	A highly efficient constant-voltage triboelectric nanogenerator. <i>Energy and Environmental Science</i> , 2022, 15, 1334-1345.	15.6	62
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5481	Survey of Tetragonal Transition Metal Chalcogenide Hetero-Bilayers for Promising Photocatalysts. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	4
5482	Hierarchically designed nanocomposites for triboelectric nanogenerator toward biomechanical energy harvester and smart home system. <i>Nano Energy</i> , 2022, 95, 107047.	8.2	23

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5484	Operando Synchrotron Studies of Inhomogeneity during Anode-Free Plating of Li Metal in Pouch Cell Batteries. <i>Journal of the Electrochemical Society</i> , 2022, 169, 020571.	1.3	12
5485	Sustainable Rural Electrification Project Management: An Analysis of Three Case Studies. <i>Energies</i> , 2022, 15, 1203.	1.6	6
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5489	A metal-supported single-atom catalytic site enables carbon dioxide hydrogenation. <i>Nature Communications</i> , 2022, 13, 819.	5.8	83
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5494	Unblocked Electron Channels Enable Efficient Contact Prelithiation for Lithium-Ion Batteries. <i>Advanced Materials</i> , 2022, 34, e2110337.	11.1	58
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5500	Thermochemical Conversion of Untreated and Pretreated Biomass for Efficient Production of Levoglucosenone and 5-Chloromethylfurfural in the Presence of an Acid Catalyst. <i>Catalysts</i> , 2022, 12, 206.	1.6	1

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5504	Spin regulation on $(\text{Co,Ni})\text{Se}_2/\text{C}@\text{FeOOH}$ hollow nanocage accelerates water oxidation. <i>Chinese Journal of Catalysis</i> , 2022, 43, 839-850.	6.9	26
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5517	Hierarchical-Porous Separator with Excellent Isotropic Modulus Enabling Homogeneous $\text{Zn}^{2+}$ Flux for Stable Aqueous Zinc Battery. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
5518	Rain Energy Harvesting Using Atomically Thin Gadolinium Telluride Decorated 3D Printed Nanogenerator. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
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5539	Electronic engineering of amorphous Fe-Co-S sites in hetero-nanoframes for oxygen evolution and flexible Al-air batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 19757-19768.	5.2	11
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5555	Construction of Zsm-5 Supported CuO-ZnO-ZrO <sub>2</sub> Heterogeneous Catalysts for CO <sub>2</sub> Hydrogenation to Methanol and Dimethyl Ether (DME): Effects of ZrO <sub>2</sub> . <i>SSRN Electronic Journal</i> , 0, , .	0.4	0

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5579	Sustainable CO <sub>2</sub> Reduction on In <sub>2</sub> O <sub>3</sub> with Exclusive CO Selectivity: Catalysis and In Situ Valence Band Photoelectron Spectral Investigations. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 3521-3531.	3.2	8
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5582	Machine learning in energy storage materials. , 2022, 1, 175-195.		45
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5893	Coupling effect between hole storage and interfacial charge transfer over ultrathin CoPi-modified hematite photoanodes. <i>Dalton Transactions</i> , 2022, 51, 9247-9255.	1.6	4

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5902	A Study on Pre-Oxidation of Petroleum Pitch-Based Activated Carbons for Electric Double-Layer Capacitors. <i>Molecules</i> , 2022, 27, 3241.	1.7	2
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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6582	Multi-walled carbon nanotubes interlinked vanadium selenite nanocomposites as a positive electrode for high-performance aqueous zinc-ion batteries. <i>Journal of Alloys and Compounds</i> , 2023, 935, 168102.	2.8	5
6583	A photo-thermo-electrochemical cell for efficient solar fuel and power production. <i>Cell Reports Physical Science</i> , 2022, , 101156.	2.8	0
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6586	Highly efficient visible-light-driven photocatalytic H <sub>2</sub> production over a p-n Mn <sub>0.2</sub> Cd <sub>0.8</sub> S/NiCo <sub>2</sub> O <sub>4</sub> heterojunction modified with Ni <sub>2</sub> P. <i>International Journal of Hydrogen Energy</i> , 2023, 48, 4230-4241.	3.8	9
6587	Real-time monitoring of induced strain during multi-stage ad-/desorption of methane on coal. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2022, 8, .	1.3	0
6588	Ultrathin CoOOH/Co(OH) <sub>2</sub> hybrid nanosheets for high-performance anodes of lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2023, 935, 168076.	2.8	3
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6595	Bifunctional intermetallic PdZn nanoparticle-loaded deficient TiO <sub>2</sub> nanosheet electrocatalyst for electrochemical water splitting. <i>Materials Advances</i> , 2023, 4, 561-569.	2.6	14
6596	Insights into an air-stable methylene blue catholyte towards kW-scale practical aqueous organic flow batteries. <i>Energy and Environmental Science</i> , 2023, 16, 231-240.	15.6	19
6597	Self-sacrificial growth of hierarchical P(Ni, Co, Fe) for enhanced asymmetric supercapacitors and oxygen evolution reactions. <i>Electrochimica Acta</i> , 2023, 438, 141582.	2.6	10
6598	Recent developments in ion conductive membranes for CO <sub>2</sub> electrochemical reduction. <i>Chemical Engineering Journal</i> , 2023, 456, 140942.	6.6	7
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6600	Sm <sub>2</sub> MoO <sub>6</sub> -TiO <sub>2</sub> -bentonite as an active electrocatalyst toward electrochemical oxygen evolution reaction and effective photocatalyst for ciprofloxacin removal. <i>Journal of Electroanalytical Chemistry</i> , 2023, 929, 117097.	1.9	2

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6602	Strategic N/P self-doped biomass-derived hierarchical porous carbon for regulating the supercapacitive performances. <i>Renewable Energy</i> , 2023, 202, 1259-1272.	4.3	7
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6609	Ni-based ultrathin nanostructures for overall electrochemical water splitting. <i>Materials Chemistry Frontiers</i> , 2023, 7, 194-215.	3.2	10
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6868	Metal-support interactions for heterogeneous catalysis: mechanisms, characterization techniques and applications. <i>Journal of Materials Chemistry A</i> , 2023, 11, 8540-8572.	5.2	13
6869	Facile and scalable synthesis of 2D porous Ni/C <i>via</i> a salt-template assisted approach for enhanced urea oxidation reaction and energy-saving hydrogen production. <i>New Journal of Chemistry</i> , 2023, 47, 7399-7409.	1.4	2
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6872	Thermodynamic-kinetic synergistic separation of CH <sub>4</sub> /N <sub>2</sub> on a robust aluminum-based metal-organic framework. <i>AIChE Journal</i> , 2023, 69, .	1.8	5

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