List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Water flooding behavior in flow cells for ammonia production via electrocatalytic nitrogen reduction. Fundamental Research, 2022, 2, 757-763.	1.6	10
2	Membranes for vanadium-air redox flow batteries. , 2022, , 155-175.		1
3	Operation of liquid e-fuel cells using air as oxidant. Applied Energy, 2022, 311, 118677.	5.1	7
4	Manipulation of Electrode Composition for Effective Water Management in Fuel Cells Fed with an Electrically Rechargeable Liquid Fuel. ACS Applied Materials & Interfaces, 2022, 14, 18600-18606.	4.0	5
5	Advances and Challenges in Photoelectrochemical Redox Batteries for Solar Energy Conversion and Storage. Advanced Energy Materials, 2022, 12, .	10.2	27
6	Spatially resolved electrochemical performance and temperature distribution of a segmented solid oxide fuel cell under various hydrogen dilution ratios and electrical loadings. Journal of Power Sources, 2022, 536, 231477.	4.0	5
7	Ultralow loading FeCoNi alloy nanoparticles decorated carbon mat for hydrogen peroxide reduction reaction and its application in direct ethylene glycol fuel cells. International Journal of Energy Research, 2022, 46, 13820-13831.	2.2	7
8	A discrete regenerative fuel cell mediated by ammonia for renewable energy conversion and storage. Applied Energy, 2022, 322, 119463.	5.1	7
9	Organic Electrolytes Recycling From Spent Lithiumâ€Ion Batteries. Global Challenges, 2022, 6, .	1.8	18
10	Enhanced oxygen discharge with structured mesh channel in proton exchange membrane electrolysis cell. Applied Energy, 2022, 323, 119651.	5.1	15
11	Three-dimensional porous electrodes for direct formate fuel cells. Science China Technological Sciences, 2021, 64, 705-718.	2.0	4
12	Mathematical modeling of direct formate fuel cells incorporating the effect of ion migration. International Journal of Heat and Mass Transfer, 2021, 164, 120629.	2.5	14
13	Revealing the sodiumâ€storage performance enhancement of adsorptionâ€type carbon materials after ammonia treatment: Active nitrogen dopants or specific surface area?. International Journal of Energy Research, 2021, 45, 7447-7456.	2.2	2
14	Machine learning for advanced energy materials. Energy and AI, 2021, 3, 100049.	5.8	96
15	Boosting electrocatalytic nitrogen reduction to ammonia in alkaline media. International Journal of Energy Research, 2021, 45, 19634-19644.	2.2	3
16	A computational model of a liquid e-fuel cell. Journal of Power Sources, 2021, 501, 230023.	4.0	8
17	Polymer Electrolyte Membranes for Vanadium Redox Flow Batteries: Fundamentals and Applications. Progress in Energy and Combustion Science, 2021, 85, 100926.	15.8	61
18	A Flexible Smart Monitoring System for the Conservation of Textile Relics. Advanced Functional Materials, 2021, 31, 2106088.	7.8	5

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19	Performance characteristics of a liquid e-fuel cell. Applied Energy, 2021, 297, 117145.	5.1	9
20	A liquid e-fuel cell operating at â^'20°C. Journal of Power Sources, 2021, 506, 230198.	4.0	7
21	In-situ formation of bismuth nanoparticles on nickel foam for ambient ammonia synthesis via electrocatalytic nitrogen reduction. Journal of Alloys and Compounds, 2021, 875, 160006.	2.8	10
22	A Passive Fuel Cell Fed with an Electrically Rechargeable Liquid Fuel. ACS Applied Materials & Interfaces, 2021, 13, 48795-48800.	4.0	12
23	A Flexible Smart Monitoring System for the Conservation of Textile Relics (Adv. Funct. Mater. 48/2021). Advanced Functional Materials, 2021, 31, .	7.8	0
24	Anion-Exchange Membrane Electrode Assembled Photoelectrochemical Cell with a Visible Light Responsive Photoanode for Simultaneously Treating Wastewater and Generating Electricity. Industrial & Engineering Chemistry Research, 2020, 59, 137-145.	1.8	10
25	A cost-effective and chemically stable electrode binder for alkaline-acid direct ethylene glycol fuel cells. Applied Energy, 2020, 258, 114060.	5.1	45
26	Aqueous metal-air batteries: Fundamentals and applications. Energy Storage Materials, 2020, 27, 478-505.	9.5	221
27	Ion Transport Characteristics in Membranes for Direct Formate Fuel Cells. Frontiers in Chemistry, 2020, 8, 765.	1.8	10
28	Energizing Fuel Cells with an Electrically Rechargeable Liquid Fuel. Cell Reports Physical Science, 2020, 1, 100102.	2.8	18
29	Carbon-free sustainable energy technology: Direct ammonia fuel cells. Journal of Power Sources, 2020, 476, 228454.	4.0	61
30	Flow Batteries: Modeling and Simulation of Flow Batteries (Adv. Energy Mater. 31/2020). Advanced Energy Materials, 2020, 10, 2070133.	10.2	26
31	One-dimensional TiO2 nanotube array photoanode for a microfluidic all-vanadium photoelectrochemical cell for solar energy storage. Catalysis Science and Technology, 2020, 10, 4352-4361.	2.1	11
32	Two-Dimensional Layered SnO ₂ Nanosheets for Ambient Ammonia Synthesis. ACS Applied Energy Materials, 2020, 3, 6735-6742.	2.5	16
33	Modeling and Simulation of Flow Batteries. Advanced Energy Materials, 2020, 10, 2000758.	10.2	66
34	Numerical Simulation on Interface Dynamics of Core Coalescence of Double-Emulsion Droplets. Industrial & Engineering Chemistry Research, 2020, 59, 21248-21260.	1.8	11
35	Performance of a hybrid direct ethylene glycol fuel cell. International Journal of Energy Research, 2019, 43, 2583-2591.	2.2	42
36	Performance characteristics of a passive direct formate fuel cell. International Journal of Energy Research, 2019, 43, 7433.	2.2	11

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37	A direct ethylene glycol fuel cell stack as air-independent power sources for underwater and outer space applications. Journal of Power Sources, 2019, 437, 226944.	4.0	25
38	Advances in three-dimensional graphene-based materials: configurations, preparation and application in secondary metal (Li, Na, K, Mg, Al)-ion batteries. Energy and Environmental Science, 2019, 12, 2030-2053.	15.6	163
39	Mathematical modeling of direct ethylene glycol fuel cells incorporating the effect of the competitive adsorption. Applied Thermal Engineering, 2019, 147, 1115-1124.	3.0	27
40	Performance characteristics of a passive direct ethylene glycol fuel cell with hydrogen peroxide as oxidant. Applied Energy, 2019, 250, 846-854.	5.1	51
41	Hydrogen-Location-Sensitive Modulation of the Redox Reactivity for Oxygen-Deficient TiO ₂ . Journal of the American Chemical Society, 2019, 141, 8407-8411.	6.6	59
42	Toward CO ₂ utilization for direct power generation using an integrated system consisting of CO ₂ photoreduction with 3D TiO ₂ /Ni-foam and a photocatalytic fuel cell. Journal of Materials Chemistry A, 2019, 7, 6275-6284.	5.2	17
43	Highly Flexible and Ultraprecise Manipulation of Light-Levitated Femtoliter/Picoliter Droplets. Journal of Physical Chemistry Letters, 2019, 10, 1068-1077.	2.1	28
44	Enhancing high-voltage performance of LiNi0.5Co0.2Mn0.3O2 cathode material via surface modification with lithium-conductive Li3Fe2(PO4)3. Journal of Alloys and Compounds, 2019, 773, 519-526.	2.8	32
45	High Value-Added Products From Recycling of Spent Lithium-Ion Batteries. , 2019, , 141-159.		0
46	Engineering the Band Gap States of the Rutile TiO ₂ (110) Surface by Modulating the Active Heteroatom. Angewandte Chemie - International Edition, 2018, 57, 8550-8554.	7.2	20
47	Engineering the Band Gap States of the Rutile TiO 2 (110) Surface by Modulating the Active Heteroatom. Angewandte Chemie, 2018, 130, 8686-8690.	1.6	9
48	Multifunctional Separator with Porous Carbon/Multiâ€Walled Carbon Nanotube Coating for Advanced Lithiumâ^'Sulfur Batteries. ChemElectroChem, 2018, 5, 71-77.	1.7	38
49	AgSn intermetallics as highly selective and active oxygen reduction electrocatalysts in membraneless alkaline fuel cells. Journal of Power Sources, 2018, 404, 106-117.	4.0	22
50	Tin-based materials as versatile anodes for alkali (earth)-ion batteries. Journal of Power Sources, 2018, 395, 41-59.	4.0	98
51	A visible-light responsive micro photocatalytic fuel cell with laterally arranged electrodes. Applied Thermal Engineering, 2018, 143, 193-199.	3.0	12
52	Recycling of lithium-ion batteries: Recent advances and perspectives. Journal of Power Sources, 2018, 399, 274-286.	4.0	587
53	Layered Spongy-like O-Doped g-C ₃ N ₄ : An Efficient Non-Metal Oxygen Reduction Catalyst for Alkaline Fuel Cells. Journal of the Electrochemical Society, 2017, 164, F354-F363.	1.3	26
54	High-performance optofluidic membrane microreactor with a mesoporous CdS/TiO 2 /SBA-15@carbon paper composite membrane for the CO 2 photoreduction. Chemical Engineering Journal, 2017, 316, 911-918.	6.6	73

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55	A micro membrane-less photoelectrochemical cell for hydrogen and electricity generation in the presence of methanol. Electrochimica Acta, 2017, 245, 549-560.	2.6	15
56	A membrane electrode assembled photoelectrochemical cell with a solar-responsive cadmium sulfide-zinc sulfide-titanium dioxide/mesoporous silica photoanode. Journal of Power Sources, 2017, 371, 96-105.	4.0	11
57	Bifunctional Electrocatalysts for Oxygen Reduction and Borohydride Oxidation Reactions Using Ag ₃ Sn Nanointermetallic for the Ensemble Effect. ACS Applied Materials & Interfaces, 2017, 9, 35701-35711.	4.0	28
58	An effective hybrid organic/inorganic inhibitor for alkaline aluminum-air fuel cells. Electrochimica Acta, 2017, 248, 478-485.	2.6	90
59	Multi-Scaled Porous Fe-N/C Nanofibrous Catalysts for the Cathode Electrodes of Direct Methanol Fuel Cells. Journal of the Electrochemical Society, 2017, 164, F1556-F1565.	1.3	19
60	A microfluidic all-vanadium photoelectrochemical cell for solar energy storage. Electrochimica Acta, 2017, 258, 842-849.	2.6	26
61	An optofluidic planar microreactor for photocatalytic reduction of CO2 in alkaline environment. Energy, 2017, 120, 276-282.	4.5	54
62	Characteristics of the IR Laser Photothermally Induced Phase Change in Microchannels with Different Depths. Industrial & Engineering Chemistry Research, 2016, 55, 8450-8459.	1.8	7
63	Catalytic performance of a pyrolyzed graphene supported Fe–N–C composite and its application for acid direct methanol fuel cells. RSC Advances, 2016, 6, 90797-90805.	1.7	6
64	Optofluidics-Based Membrane Microreactor for Wastewater Treatment by Photocatalytic Ozonation. Industrial & Engineering Chemistry Research, 2016, 55, 8627-8635.	1.8	16
65	A cascading gradient pore microstructured photoanode with enhanced photoelectrochemical and photocatalytic activities. Journal of Catalysis, 2016, 344, 411-419.	3.1	29
66	A micro photocatalytic fuel cell with an air-breathing, membraneless and monolithic design. Science Bulletin, 2016, 61, 1699-1710.	4.3	31
67	Integrated Porous Cathode made of Pure Perovskite Lanthanum Nickel Oxide for Nonaqueous Lithium–Oxygen Batteries. Energy Technology, 2015, 3, 1093-1100.	1.8	15
68	The dual role of hydrogen peroxide in fuel cells. Science Bulletin, 2015, 60, 55-64.	4.3	98
69	Charge carriers in alkaline direct oxidation fuel cells. Energy and Environmental Science, 2012, 5, 7536.	15.6	63
70	An alkaline direct ethanol fuel cell with a cation exchange membrane. Energy and Environmental Science, 2011, 4, 2213.	15.6	85
71	Nafion membranes for e-fuel cell applications. International Journal of Green Energy, 0, , 1-7.	2.1	4