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List of Publications by Year in descending order

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66
papers

6,248
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81900

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8342
citing authors

#	ARTICLE	IF	CITATIONS
1	PdMo bimetallic for oxygen reduction catalysis. <i>Nature</i> , 2019, 574, 81-85.	27.8	935
2	Metallic Graphene-Like VSe ₂ Ultrathin Nanosheets: Superior Potassium-Ion Storage and Their Working Mechanism. <i>Advanced Materials</i> , 2018, 30, e1800036.	21.0	341
3	Two-Dimensional Water-Coupled Metallic MoS ₂ with Nanochannels for Ultrafast Supercapacitors. <i>Nano Letters</i> , 2017, 17, 1825-1832.	9.1	337
4	Rational Design of MXene/ITa ₂ H MoS ₂ Nanohybrids for High-Performance Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1707578.	14.9	309
5	Strengthening reactive metal-support interaction to stabilize high-density Pt single atoms on electron-deficient g-C ₃ N ₄ for boosting photocatalytic H ₂ production. <i>Nano Energy</i> , 2019, 56, 127-137.	16.0	247
6	Metal-Organic Framework-Induced Synthesis of Ultrasmall Encased NiFe Nanoparticles Coupling with Graphene as an Efficient Oxygen Electrode for a Rechargeable Zn-Air Battery. <i>ACS Catalysis</i> , 2016, 6, 6335-6342.	11.2	210
7	Reversibility of Noble Metal-Catalyzed Aprotic Li-O ₂ Batteries. <i>Nano Letters</i> , 2015, 15, 8084-8090.	9.1	165
8	Ultrathin Visible-Light-Driven Mo Incorporating In ₂ O ₃ ZnIn ₂ Se ₄ Z-scheme Nanosheet Photocatalysts. <i>Advanced Materials</i> , 2019, 31, e1807226.	21.0	165
9	MXene/Si@SiO _x /C Layer-by-Layer Superstructure with Autoadjustable Function for Superior Stable Lithium Storage. <i>ACS Nano</i> , 2019, 13, 2167-2175.	14.6	154
10	Co ₃ O ₄ /Fe _{0.33} Co _{0.66} P Interface Nanowire for Enhancing Water Oxidation Catalysis at High Current Density. <i>Advanced Materials</i> , 2018, 30, e1803551.	21.0	150
11	Potential-Dependent Generation of O ₂ ^{•-} and Li ₂ O and Their Critical Roles in O ₂ Reduction to Li ₂ O ₂ in Aprotic Li-O ₂ Batteries. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3690-3698.	3.1	149
12	Identifying Reactive Sites and Transport Limitations of Oxygen Reactions in Aprotic Lithium-O ₂ Batteries at the Stage of Sudden Death. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5201-5205.	13.8	147
13	A Universal Strategy for Intimately Coupled Carbon Nanosheets/MoM Nanocrystals (M = P, S, C, and O) Hierarchical Hollow Nanospheres for Hydrogen Evolution Catalysis and Sodium-Ion Storage. <i>Advanced Materials</i> , 2018, 30, e1706085.	21.0	147
14	Amorphous Li ₂ O ₂ : Chemical Synthesis and Electrochemical Properties. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10717-10721.	13.8	135
15	A Freestanding Flexible Single-Atom Cobalt-Based Multifunctional Interlayer toward Reversible and Durable Lithium-Sulfur Batteries. <i>Small Methods</i> , 2020, 4, 1900701.	8.6	123
16	Progress and Perspective: MXene and MXene-Based Nanomaterials for High-Performance Energy Storage Devices. <i>Advanced Electronic Materials</i> , 2021, 7, 2000967.	5.1	122
17	Hollow Si/SiO _x nanosphere/nitrogen-doped carbon superstructure with a double shell and void for high-rate and long-life lithium-ion storage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8039-8046.	10.3	120
18	3D star-like atypical hybrid MOF derived single-atom catalyst boosts oxygen reduction catalysis. <i>Journal of Energy Chemistry</i> , 2021, 55, 355-360.	12.9	113

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19	Efficient Bifunctional Polyalcohol Oxidation and Oxygen Reduction Electrocatalysts Enabled by Ultrathin PtPdM (M = Ni, Fe, Co) Nanosheets. <i>Advanced Energy Materials</i> , 2019, 9, 1800684.	19.5	112
20	N-Doped Carbon Nanosheet Networks with Favorable Active Sites Triggered by Metal Nanoparticles as Bifunctional Oxygen Electrocatalysts. <i>ACS Energy Letters</i> , 2018, 3, 2914-2920.	17.4	107
21	Mesoporous nanostructured spinel-type MFe ₂ O ₄ (M = Co, Mn, Ni) oxides as efficient bi-functional electrocatalysts towards oxygen reduction and oxygen evolution. <i>Electrochimica Acta</i> , 2017, 245, 829-838.	5.2	102
22	Synergistic effect between atomically dispersed Fe and Co metal sites for enhanced oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 4369-4375.	10.3	100
23	Ultrathin Ti ₃ C ₂ nanosheets based "off-on" fluorescent nanoprobe for rapid and sensitive detection of HPV infection. <i>Sensors and Actuators B: Chemical</i> , 2019, 286, 222-229.	7.8	98
24	Metal-organic framework-derived Fe/Cu-substituted Co nanoparticles embedded in CNTs-grafted carbon polyhedron for Zn-air batteries. , 2020, 2, 283-293.		95
25	Silk-Derived Highly Active Oxygen Electrocatalysts for Flexible and Rechargeable Zn-Air Batteries. <i>Chemistry of Materials</i> , 2019, 31, 1023-1029.	6.7	84
26	Confined Fe ₂ VO ₄ Nitrogen-Doped Carbon Nanowires with Internal Void Space for High-Rate and Ultrastable Potassium-Ion Storage. <i>Advanced Energy Materials</i> , 2019, 9, 1902674.	19.5	81
27	Advanced Multifunctional Electrocatalysts for Energy Conversion. <i>ACS Energy Letters</i> , 2019, 4, 1672-1680.	17.4	78
28	<i>In situ</i> formed Fe-N doped metal organic framework@carbon nanotubes/graphene hybrids for a rechargeable Zn-air battery. <i>Chemical Communications</i> , 2017, 53, 12934-12937.	4.1	76
29	Porous ZrNb ₂₄ O ₆₂ nanowires with pseudocapacitive behavior achieve high-performance lithium-ion storage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 22297-22304.	10.3	71
30	Bifunctional oxygen electrodes of homogeneous Co ₄ N nanocrystals@N-doped carbon hybrids for rechargeable Zn-air batteries. <i>Carbon</i> , 2019, 151, 10-17.	10.3	67
31	Orthorhombic Cobalt Ditungstate with Te Vacancy Defects Anchoring on Elastic MXene Enables Efficient Potassium-Ion Storage. <i>Advanced Materials</i> , 2021, 33, e2100272.	21.0	66
32	Graphite coated with manganese oxide/multiwall carbon nanotubes composites as anodes in marine benthic microbial fuel cells. <i>Applied Surface Science</i> , 2014, 317, 84-89.	6.1	65
33	Unlocking the energy capabilities of micron-sized LiFePO ₄ . <i>Nature Communications</i> , 2015, 6, 7898.	12.8	65
34	Dynamic Intercalation/Conversion Site Supported Ultrathin 2D Mesoporous SnO ₂ /SnSe ₂ Hybrid as Bifunctional Polysulfide Immobilizer and Lithium Regulator for Lithium-Sulfur Chemistry. <i>ACS Nano</i> , 2022, 16, 10783-10797.	14.6	63
35	A High-Performance Carbonate-Free Lithium Garnet Interface Enabled by a Trace Amount of Sodium. <i>Advanced Materials</i> , 2020, 32, e2000575.	21.0	58
36	In-situ construction of Bi/defective Bi ₄ Nb ₈ O ₈ Cl for non-noble metal based Mott-Schottky photocatalysts towards organic pollutants removal. <i>Journal of Hazardous Materials</i> , 2020, 393, 122408.	12.4	54

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37	Bioinspired Ultrastable Lignin Cathode via Graphene Reconfiguration for Energy Storage. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 3553-3561.	6.7	51
38	Rational Design of Hierarchical TiO ₂ /Epitaxially Aligned MoS ₂ â€“Carbon Coupled Interface Nanosheets Core/Shell Architecture for Ultrastable Sodiumâ€“Ion and Lithiumâ€“Sulfur Batteries. <i>Small Methods</i> , 2018, 2, 1800119.	8.6	49
39	Multidimensional Integrated Chalcogenides Nanoarchitecture Achieves Highly Stable and Ultrafast Potassiumâ€“Ion Storage. <i>Small</i> , 2019, 15, e1903720.	10.0	49
40	SnS ₂ Nanosheets Anchored on Nitrogen and Sulfur Co-Doped MXene Sheets for High-Performance Potassium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 17668-17676.	8.0	49
41	Honeycomb-like 3D N-, P-codoped porous carbon anchored with ultrasmall Fe ₂ P nanocrystals for efficient Zn-air battery. <i>Carbon</i> , 2020, 158, 885-892.	10.3	41
42	Amorphous Li ₂ O ₂ : Chemical Synthesis and Electrochemical Properties. <i>Angewandte Chemie</i> , 2016, 128, 10875-10879.	2.0	37
43	Strongly coupled Te-SnS ₂ /MXene superstructure with self-autoadjustable function for fast and stable potassium ion storage. <i>Journal of Energy Chemistry</i> , 2021, 61, 416-424.	12.9	36
44	Visible light-driven methanol dehydrogenation and conversion into 1,1-dimethoxymethane over a non-noble metal photocatalyst under acidic conditions. <i>Catalysis Science and Technology</i> , 2018, 8, 3372-3378.	4.1	35
45	Strongly coupled ultrasmall-Fe ₇ C ₃ /N-doped porous carbon hybrids for highly efficient Znâ€“air batteries. <i>Chemical Communications</i> , 2019, 55, 5651-5654.	4.1	35
46	Coupled and decoupled hierarchical carbon nanomaterials toward high-energy-density quasi-solid-state Na-Ion hybrid energy storage devices. <i>Energy Storage Materials</i> , 2019, 23, 530-538.	18.0	32
47	Polymerization-dissolution strategy to prepare Fe, N, S tri-doped carbon nanostructures for Zn-Air batteries. <i>Carbon</i> , 2019, 147, 83-89.	10.3	31
48	MXene-Ti ₃ C ₂ assisted one-step synthesis of carbon-supported TiO ₂ /Bi ₄ NbO ₈ /Cl heterostructures for enhanced photocatalytic water decontamination. <i>Nanophotonics</i> , 2020, 9, 2077-2088.	6.0	31
49	Polyphenylene Wrapped Sulfur/Multi-Walled Carbon Nano-Tubes via Spontaneous Grafting of Diazonium Salt for Improved Electrochemical Performance of Lithium-Sulfur Battery. <i>Electrochimica Acta</i> , 2015, 165, 136-141.	5.2	29
50	Enhanced interaction in TiO ₂ /BiVO ₄ heterostructures via MXene Ti ₃ C ₂ -derived 2D-carbon for highly efficient visible-light photocatalysis. <i>Nanotechnology</i> , 2019, 30, 075601.	2.6	29
51	Stabilizing Niâ€“Rich LiNi _{0.92} Co _{0.06} Al _{0.02} O ₂ Cathodes by Boracic Polyanion and Tungsten Cation Coâ€“Doping for Highâ€“Energy Lithiumâ€“Ion Batteries. <i>ChemElectroChem</i> , 2020, 7, 3811-3817.	3.4	24
52	Ni@RuM (M=Ni or Co) core@shell nanocrystals with high mass activity for overall water-splitting catalysis. <i>Science China Materials</i> , 2019, 62, 1868-1876.	6.3	21
53	Identifying Reactive Sites and Transport Limitations of Oxygen Reactions in Aprotic Lithiumâ€“O ₂ Batteries at the Stage of Sudden Death. <i>Angewandte Chemie</i> , 2016, 128, 5287-5291.	2.0	20
54	Co _{0.7} Fe _{0.3} NPs confined in yolkâ€“shell N-doped carbon: engineering multi-beaded fibers as an efficient bifunctional electrocatalyst for Znâ€“air batteries. <i>Nanoscale</i> , 2021, 13, 2609-2617.	5.6	19

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55	Li ₂ O ₂ oxidation: the charging reaction in the aprotic Li-O ₂ batteries. Science Bulletin, 2015, 60, 1227-1234.	9.0	18
56	Liquid-like Poly(ionic liquid) as Electrolyte for Thermally Stable Lithium-Ion Battery. ACS Omega, 2018, 3, 10564-10571.	3.5	18
57	Spectroscopic Identification of the Au-C Bond Formation upon Electroreduction of an Aryl Diazonium Salt on Gold. Langmuir, 2016, 32, 11514-11519.	3.5	14
58	Defect-engineering of Pt/Bi ₄ NbO ₈ Br heterostructures for synergetic promotional photocatalytic removal of versatile organic contaminants. Journal of Materials Chemistry C, 2021, 9, 2784-2792.	5.5	13
59	Cookies-like Ag ₂ S/Bi ₄ NbO ₈ Cl heterostructures for high efficient and stable photocatalytic degradation of refractory antibiotics utilizing full-spectrum solar energy. Separation and Purification Technology, 2022, 292, 120969.	7.9	12
60	Cu ₁₂ Sb ₄ S ₁₃ Quantum Dots/Few-layered Ti ₃ C ₂ Nanosheets with Enhanced K ⁺ Diffusion Dynamics for Efficient Potassium Ion Storage. Advanced Functional Materials, 2022, 32, 2108574.	14.9	10
61	Understanding oxygen reactions in aprotic Li-O ₂ batteries. Chinese Physics B, 2016, 25, 018204.	1.4	9
62	One-Pot Seedless Aqueous Design of Metal Nanostructures for Energy Electrocatalytic Applications. Electrochemical Energy Reviews, 2018, 1, 531-547.	25.5	9
63	Dealloyed silver nanoparticles as efficient catalyst towards oxygen reduction in alkaline solution. Chemical Research in Chinese Universities, 2016, 32, 106-111.	2.6	5
64	Defective 1T-ReSe ₂ nanosheets vertically grown on elastic MXene for fast and stable potassium ion storage. Science China Materials, 2022, 65, 3418-3427.	6.3	5
65	Comparative study of two carbon fiber cathodes and theoretical analysis in microbial fuel cells on ocean floor. Journal of Ocean University of China, 2014, 13, 257-261.	1.2	4
66	In-Situ growing tungsten Sulfide/Carbon nanosheets on sodium titanate nanorods to stabilize Surface-Structure for enhanced Sodium-ion storage. Journal of Colloid and Interface Science, 2022, 611, 609-616.	9.4	2