

Jie Yu

List of Publications by Year in descending order

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papers

4,802
citations

126907

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all docs

73
docs citations

73
times ranked

5952
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-catalyzed formation of strongly interconnected multiphase molybdenum-based composites for efficient hydrogen evolution. , 2022, 4, 77-87.		45
2	Nano Carbon/Vertical Graphene/MnO ₂ Nanosheets Composite Particles for High-Performance Supercapacitors. Energy Technology, 2022, 10, 2100884.	3.8	13
3	Nitrogen-doped porous carbon fiber/vertical graphene as an efficient polysulfide conversion catalyst for high-performance lithium-sulfur batteries. Journal of Materials Chemistry A, 2022, 10, 690-698.	10.3	14
4	Tailoring structural properties of carbon via implanting optimal co nanoparticles in rich carbon cages toward high-efficiency oxygen electrocatalysis for rechargeable zn-air batteries. , 2022, 4, 576-585.		27
5	Bridging the Charge Accumulation and High Reaction Order for High-Rate Oxygen Evolution and Long Stable Zn-Air Batteries. Advanced Functional Materials, 2022, 32, .	14.9	49
6	In Situ Anchoring Co-N-C Nanoparticles on Co ₄ N Nanosheets toward Ultrastable Flexible Self-Supported Bifunctional Oxygen Electrocatalyst Enables Recyclable Zn-Air Batteries Over 10 000 Cycles and Fast Charging. Small, 2022, 18, e2105887.	10.0	22
7	Vertical Graphene Nanosheets on Porous Microsilicon Particles for Anodes of Lithium-Ion Batteries. ACS Applied Nano Materials, 2022, 5, 8205-8213.	5.0	6
8	Atomic-Scale Laminated Structure of O-Doped WS ₂ and Carbon Layers with Highly Enhanced Ion Transfer for Fast-Charging Lithium-Ion Batteries. Small, 2022, 18, .	10.0	8
9	New nitrogen-doped graphitic carbon nanosheets with rich structural defects and hierarchical nanopores as efficient metal-free electrocatalysts for oxygen reduction reaction in Zn-Air batteries. Chemical Engineering Science, 2022, 259, 117816.	3.8	8
10	Growing vertical graphene sheets on natural graphite for fast charging lithium-ion batteries. Carbon, 2021, 173, 477-484.	10.3	68
11	Ultrafine ruthenium-iridium alloy nanoparticles well-dispersed on N-rich carbon frameworks as efficient hydrogen-generation electrocatalysts. Chemical Engineering Journal, 2021, 417, 128105.	12.7	28
12	Co ₄ N/Co ₂ C@rGO with Abundant Co-C and N-C Bonds as Highly Efficient Electrocatalyst for N ₂ Reduction. ACS Sustainable Chemistry and Engineering, 2021, 9, 1373-1382.	6.7	5
13	Interfacial La Diffusion in the CeO ₂ /LaFeO ₃ Hybrid for Enhanced Oxygen Evolution Activity. ACS Applied Materials & Interfaces, 2021, 13, 2799-2806.	8.0	38
14	Graphene/MoS ₂ /FeCoNi(OH) _x and Graphene/MoS ₂ /FeCoNiP _x multilayer-stacked vertical nanosheets on carbon fibers for highly efficient overall water splitting. Nature Communications, 2021, 12, 1380.	12.8	194
15	Highly flexible and strong SiC fibre mats prepared by electrospinning and hot-drawing. Advances in Applied Ceramics, 2021, 120, 144-155.	1.1	2
16	A mini-review of noble-metal-free electrocatalysts for overall water splitting in non-alkaline electrolytes. Materials Reports Energy, 2021, 1, 100024.	3.2	27
17	High yield production of 3D graphene powders by thermal chemical vapor deposition and application as highly efficient conductive additive of lithium ion battery electrodes. Carbon, 2021, 176, 21-30.	10.3	35
18	Electrospun carbon nanofiber-based flexible films for electric heating elements with adjustable resistance, ultrafast heating rate, and high infrared emissivity. Journal of Materials Science, 2021, 56, 14542-14555.	3.7	13

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19	Vertical Graphene Nanosheet/Polyimide Composite Films for Electromagnetic Interference Shielding. ACS Applied Nano Materials, 2021, 4, 7461-7470.	5.0	16
20	Recent Progress on Structurally Ordered Materials for Electrocatalysis. Advanced Energy Materials, 2021, 11, 2101937.	19.5	65
21	Interfacial electronic structure engineering on molybdenum sulfide for robust dual-pH hydrogen evolution. Nature Communications, 2021, 12, 5260.	12.8	93
22	In Situ Formation of SiO ₂ Nanospheres on Common Fabrics for Broadband Radiative Cooling. ACS Applied Nano Materials, 2021, 4, 11260-11268.	5.0	14
23	Mechanical, thermal, and dielectric properties of SiCf/SiC composites reinforced with electrospun SiC fibers by PIP. Journal of the European Ceramic Society, 2021, 41, 6859-6868.	5.7	14
24	Regulating the Interfacial Electron Density of La _{0.8} Sr _{0.2} Mn _{0.5} Co _{0.5} O ₃ /RuO _x for Efficient and Low-Cost Bifunctional Oxygen Electrocatalysts and Rechargeable Zn-Air Batteries. ACS Applied Materials & Interfaces, 2021, 13, 61098-61106.	8.0	10
25	Pressure-Induced Synthesis of Homogeneously Dispersed Sn/SnO ₂ /C Nanocomposites as Advanced Anodes for Lithium-Ion Batteries. Energy Technology, 2020, 8, 1901202.	3.8	3
26	Porous Cu Film Enables Thick Slurry-Cast Anodes with Enhanced Charge Transfer Efficiency for High-Performance Li-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 47623-47633.	8.0	4
27	Robust non-Pt noble metal-based nanomaterials for electrocatalytic hydrogen generation. Applied Physics Reviews, 2020, 7, .	11.3	28
28	Rational design of spinel oxides as bifunctional oxygen electrocatalysts for rechargeable Zn-air batteries. Chemical Physics Reviews, 2020, 1, .	5.7	28
29	Nanoscopically and uniformly distributed SnO ₂ @TiO ₂ /C composite with highly mesoporous structure and bichemical bonds for enhanced lithium ion storage performances. Materials Advances, 2020, 1, 421-429.	5.4	13
30	Monoclinic SrIrO ₃ : An Easily Synthesized Conductive Perovskite Oxide with Outstanding Performance for Overall Water Splitting in Alkaline Solution. Chemistry of Materials, 2020, 32, 4509-4517.	6.7	72
31	3D Vertical Graphene@SiO _x /B-doped Carbon Composite Microspheres for High-Energy Lithium-Ion Batteries. Energy Technology, 2020, 8, 2000351.	3.8	8
32	Advances in Porous Perovskites: Synthesis and Electrocatalytic Performance in Fuel Cells and Metal-Air Batteries. Energy and Environmental Materials, 2020, 3, 121-145.	12.8	119
33	Vertical graphene growth on uniformly dispersed sub-nanoscale SiO _x /N-doped carbon composite microspheres with a 3D conductive network and an ultra-low volume deformation for fast and stable lithium-ion storage. Journal of Materials Chemistry A, 2020, 8, 3822-3833.	10.3	59
34	Thermal effects in H ₂ O and CO ₂ assisted direct carbon solid oxide fuel cells. International Journal of Hydrogen Energy, 2020, 45, 12459-12475.	7.1	21
35	Mini-review of perovskite oxides as oxygen electrocatalysts for rechargeable zinc-air batteries. Chemical Engineering Journal, 2020, 397, 125516.	12.7	121
36	Self-Catalyzed Growth of Co, N-Codoped CNTs on Carbon-Encased CoS _x Surface: A Noble-Metal-Free Bifunctional Oxygen Electrocatalyst for Flexible Solid Zn-Air Batteries. Advanced Functional Materials, 2019, 29, 1904481.	14.9	217

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37	Morphology, crystal structure and electronic state one-step co-tuning strategy towards developing superior perovskite electrocatalysts for water oxidation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19228-19233.	10.3	39
38	N,O-codoped 3D graphene fibers with densely arranged sharp edges as highly efficient electrocatalyst for oxygen reduction reaction. <i>Journal of Materials Science</i> , 2019, 54, 14495-14503.	3.7	15
39	Recent Advances and Prospective in Ruthenium-Based Materials for Electrochemical Water Splitting. <i>ACS Catalysis</i> , 2019, 9, 9973-10011.	11.2	491
40	Ultrathin MoS ₂ nanosheets homogenously embedded in a N,O-codoped carbon matrix for high-performance lithium and sodium storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4804-4812.	10.3	82
41	Core Effect on the Performance of N/P Codoped Carbon Encapsulating Noble-Metal Phosphide Nanostructures for Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2019, 2, 2645-2653.	5.1	25
42	Pressure-Induced Vapor Synthesis of Carbon-Encapsulated SiO _x /C Composite Spheres with Optimized Composition for Long-Life, High-Rate, and High-Areal-Capacity Lithium-Ion Battery Anodes. <i>Energy Technology</i> , 2019, 7, 1900084.	3.8	16
43	3D Graphene Fibers Grown by Thermal Chemical Vapor Deposition. <i>Advanced Materials</i> , 2018, 30, e1705380.	21.0	116
44	Substrate-orientation dependent epitaxial growth of highly ordered diamond nanosheet arrays by chemical vapor deposition. <i>Nanoscale</i> , 2018, 10, 2812-2819.	5.6	11
45	Systematic Study of Oxygen Evolution Activity and Stability on La _{1-x} Sr _x FeO _{3-δ} Perovskite Electrocatalysts in Alkaline Media. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 11715-11721.	8.0	173
46	A Flexible Supercapacitor with High True Performance. <i>IScience</i> , 2018, 9, 138-148.	4.1	17
47	Spherical Ruthenium Disulfide-Sulfur-Doped Graphene Composite as an Efficient Hydrogen Evolution Electrocatalyst. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 34098-34107.	8.0	75
48	A flexible, electrochromic, rechargeable Zn//PPy battery with a short circuit chromatic warning function. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11113-11118.	10.3	120
49	Perovskite oxide/carbon nanotube hybrid bifunctional electrocatalysts for overall water splitting. <i>Electrochimica Acta</i> , 2018, 286, 47-54.	5.2	56
50	Multifold Nanostructuring and Atomic-Scale Modulation of Cobalt Phosphide to Significantly Boost Hydrogen Production. <i>Chemistry - A European Journal</i> , 2018, 24, 13800-13806.	3.3	15
51	Bifunctionality from Synergy: CoP Nanoparticles Embedded in Amorphous CoO _x Nanoplates with Heterostructures for Highly Efficient Water Electrolysis. <i>Advanced Science</i> , 2018, 5, 1800514.	11.2	124
52	Vertically Aligned N-Doped Diamond/Graphite Hybrid Nanosheets Epitaxially Grown on B-Doped Diamond Films as Electrocatalysts for Oxygen Reduction Reaction in an Alkaline Medium. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 29866-29875.	8.0	10
53	Bigger is Surprisingly Better: Agglomerates of Larger RuP Nanoparticles Outperform Benchmark Pt Nanocatalysts for the Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2018, 30, e1800047.	21.0	212
54	Mixed protonic-electronic conducting perovskite oxide as a robust oxygen evolution reaction catalyst. <i>Electrochimica Acta</i> , 2018, 282, 324-330.	5.2	23

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55	Synthesis of Highly Porous Metal-Free Oxygen Reduction Electrocatalysts in a Self-Sacrificial Bacterial Cellulose Microreactor. <i>Advanced Sustainable Systems</i> , 2017, 1, 1700045.	5.3	9
56	Thermal charging of supercapacitors: a perspective. <i>Sustainable Energy and Fuels</i> , 2017, 1, 1457-1474.	4.9	58
57	Facile synthesis of nitrogen-doped carbon nanotubes encapsulating nickel cobalt alloys 3D networks for oxygen evolution reaction in an alkaline solution. <i>Journal of Power Sources</i> , 2017, 338, 26-33.	7.8	105
58	Activity and Stability of Ruddlesden-Popper Type $\text{La}_{1-x}\text{Ni}_x\text{O}_{3+1}$ ($x=1, 2, 3$, and ∞) Electrocatalysts for Oxygen Reduction and Evolution Reactions in Alkaline Media. <i>Chemistry - A European Journal</i> , 2016, 22, 2719-2727.	3.3	90
59	Highly Active Carbon/MnO ₂ Hybrid Oxygen Reduction Reaction Electrocatalysts. <i>ChemElectroChem</i> , 2016, 3, 1760-1767.	3.4	42
60	Cobalt Oxide and Cobalt-Graphitic Carbon Core-Shell Based Catalysts with Remarkably High Oxygen Reduction Reaction Activity. <i>Advanced Science</i> , 2016, 3, 1600060.	11.2	109
61	Large-scale synthesis of hybrid metal oxides through metal redox mechanism for high-performance pseudocapacitors. <i>Scientific Reports</i> , 2016, 6, 20021.	3.3	63
62	A novel route towards well-dispersed short nanofibers and nanoparticles via electrospinning. <i>RSC Advances</i> , 2016, 6, 30139-30147.	3.6	10
63	Enhancing Electrocatalytic Activity of Perovskite Oxides by Tuning Cation Deficiency for Oxygen Reduction and Evolution Reactions. <i>Chemistry of Materials</i> , 2016, 28, 1691-1697.	6.7	635
64	A High-Performance Electrocatalyst for Oxygen Evolution Reaction: $\text{LiCo}_{0.8}\text{Fe}_{0.2}\text{O}_2$. <i>Advanced Materials</i> , 2015, 27, 7150-7155.	21.0	249
65	Solvothermal synthesis of a dendritic TiN_xO_y nanostructure for oxygen reduction reaction electrocatalysis. <i>RSC Advances</i> , 2015, 5, 106439-106443.	3.6	9
66	Boosting Oxygen Reduction Reaction Activity of Palladium by Stabilizing Its Unusual Oxidation States in Perovskite. <i>Chemistry of Materials</i> , 2015, 27, 3048-3054.	6.7	117
67	Aligned polyaniline nanowires grown on the internal surface of macroporous carbon for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23307-23315.	10.3	77
68	Activated carbon with micrometer-scale channels prepared from luffa sponge fibers and their application for supercapacitors. <i>RSC Advances</i> , 2014, 4, 35789-35796.	3.6	42
69	Cotton-based hollow carbon fibers with high specific surface area prepared by ammonia etching for supercapacitor application. <i>RSC Advances</i> , 2014, 4, 31300-31307.	3.6	58