

Ya-Qian Zhang

List of Publications by Year in descending order

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54
papers

3,352
citations

136740

32
h-index

189595

50
g-index

54
all docs

54
docs citations

54
times ranked

4620
citing authors

#	ARTICLE	IF	CITATIONS
1	Solid-State Calcium-Ion Diffusion in $\text{Ca}_{1.5}\text{Ba}_{0.5}\text{Si}_5\text{O}_3\text{N}_6$. <i>Chemistry of Materials</i> , 2022, 34, 128-139.	3.2	7
2	Thermodynamically Driven Synthetic Optimization for Cation-Disordered Rock Salt Cathodes. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	20
3	Phase-contrast imaging of multiply-scattering extended objects at atomic resolution by reconstruction of the scattering matrix. <i>Physical Review Research</i> , 2021, 3, .	1.3	11
4	Realizing continuous cation order-to-disorder tuning in a class of high-energy spinel-type Li-ion cathodes. <i>Matter</i> , 2021, 4, 3897-3916.	5.0	32
5	Wavy SnO_2 catalyzed simultaneous reinforcement of carbon dioxide adsorption and activation towards electrochemical conversion of CO_2 to HCOOH . <i>Applied Catalysis B: Environmental</i> , 2020, 261, 118243.	10.8	97
6	A-site deficient perovskite with nano-socketed Ni-Fe alloy particles as highly active and durable catalyst for high-temperature CO_2 electrolysis. <i>Electrochimica Acta</i> , 2020, 335, 135683.	2.6	38
7	A Wireless Power Transfer System With Dual Switch-Controlled Capacitors for Efficiency Optimization. <i>IEEE Transactions on Power Electronics</i> , 2020, 35, 6091-6101.	5.4	85
8	Increasing Capacity in Disordered Rocksalt Cathodes by Mg Doping. <i>Chemistry of Materials</i> , 2020, 32, 10728-10736.	3.2	21
9	Organic Photochemistry-Assisted Nanoparticle Segregation on Perovskites. <i>Cell Reports Physical Science</i> , 2020, 1, 100243.	2.8	11
10	Hierarchical electrode design of highly efficient and stable unitized regenerative fuel cells (URFCs) for long-term energy storage. <i>Energy and Environmental Science</i> , 2020, 13, 4872-4881.	15.6	43
11	Characterization of mechanical degradation in an all-solid-state battery cathode. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17399-17404.	5.2	100
12	The interplay between thermodynamics and kinetics in the solid-state synthesis of layered oxides. <i>Nature Materials</i> , 2020, 19, 1088-1095.	13.3	129
13	Direct Visualization of the Interfacial Degradation of Cathode Coatings in Solid State Batteries: A Combined Experimental and Computational Study. <i>Advanced Energy Materials</i> , 2020, 10, 1903778.	10.2	67
14	Tuning adsorption strength of CO_2 and its intermediates on tin oxide-based electrocatalyst for efficient CO_2 reduction towards carbonaceous products. <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119252.	10.8	50
15	In-situ resonant band engineering of solution-processed semiconductors generates high performance n-type thermoelectric nano-inks. <i>Nature Communications</i> , 2020, 11, 2069.	5.8	23
16	Tuning local carbon active sites saturability of graphitic carbon nitride to boost CO_2 electroreduction towards CH_4 . <i>Nano Energy</i> , 2020, 73, 104833.	8.2	35
17	The Interplay between Thermodynamics and Kinetics in the Solid-State Synthesis of Layered Oxides. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 313-313.	0.0	0
18	Resolving Li-F Locking Effect in Disordered Rocksalt Cathodes with Mg-Doping. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 129-129.	0.0	0

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19	Biomass Waste-Derived 3D Metal-Free Porous Carbon as a Bifunctional Electrocatalyst for Rechargeable Zinc-Air Batteries. ACS Sustainable Chemistry and Engineering, 2019, 7, 17039-17046.	3.2	74
20	Separation and Quantum Tunneling of Photo-generated Carriers Using a Tribo-Induced Field. Matter, 2019, 1, 650-660.	5.0	56
21	Single iron atoms stabilized by microporous defects of biomass-derived carbon aerogels as high-performance cathode electrocatalysts for aluminum-air batteries. Journal of Materials Chemistry A, 2019, 7, 20840-20846.	5.2	68
22	Graphitic Carbon Nitride ($g\text{-C}_3\text{N}_4$) Derived N-Rich Graphene with Tuneable Interlayer Distance as a High-Rate Anode for Sodium-Ion Batteries. Advanced Materials, 2019, 31, e1901261.	11.1	362
23	Confining ultrasmall bimetallic alloys in porous carbon for use as scalable and sustainable electrocatalysts for rechargeable Zn-air batteries. Journal of Materials Chemistry A, 2019, 7, 12451-12456.	5.2	128
24	<i>In situ</i> grown cobalt phosphide (CoP) on perovskite nanofibers as an optimized trifunctional electrocatalyst for Zn-air batteries and overall water splitting. Journal of Materials Chemistry A, 2019, 7, 26607-26617.	5.2	92
25	Modified Feedforward Control to Suppress DC Voltage Disturbances for Three-Stage MMC-PET. , 2019, , .		4
26	Nanowrinkled Carbon Aerogels Embedded with Fe _{Nx} Sites as Effective Oxygen Electrodes for Rechargeable Zinc-Air Battery. Research, 2019, 2019, 6813585.	2.8	29
27	Toward a rational photocatalyst design: a new formation strategy of co-catalyst/semiconductor heterostructures <i>via in situ</i> exsolution. Chemical Communications, 2018, 54, 1505-1508.	2.2	39
28	A strongly cooperative spinel nanohybrid as an efficient bifunctional oxygen electrocatalyst for oxygen reduction reaction and oxygen evolution reaction. Applied Catalysis B: Environmental, 2018, 236, 413-419.	10.8	82
29	Ce/Ni Decorated Titanate Based Perovskite for Solid Oxide Fuel Cells. ECS Transactions, 2017, 75, 91-97.	0.3	2
30	A rational design for enhanced oxygen reduction: Strongly coupled silver nanoparticles and engineered perovskite nanofibers. Nano Energy, 2017, 38, 392-400.	8.2	60
31	A coupling for success: Controlled growth of Co/CoO _x nanoshoots on perovskite mesoporous nanofibres as high-performance trifunctional electrocatalysts in alkaline condition. Nano Energy, 2017, 32, 247-254.	8.2	189
32	All-In-One Perovskite Catalyst: Smart Controls of Architecture and Composition toward Enhanced Oxygen/Hydrogen Evolution Reactions. Advanced Energy Materials, 2017, 7, 1700666.	10.2	124
33	Smart tuning of 3D ordered electrocatalysts for enhanced oxygen reduction reaction. Applied Catalysis B: Environmental, 2017, 219, 640-644.	10.8	33
34	Stabilizing Double Perovskite for Effective Bifunctional Oxygen Electrocatalysis in Alkaline Conditions. Chemistry of Materials, 2017, 29, 6228-6237.	3.2	94
35	Grafting doped manganite into nickel anode enables efficient and durable energy conversions in biogas solid oxide fuel cells. Applied Catalysis B: Environmental, 2017, 200, 174-181.	10.8	27
36	A graph-based semi-supervised k nearest-neighbor method for nonlinear manifold distributed data classification. Information Sciences, 2016, 367-368, 673-688.	4.0	33

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37	Highly Active and Redox-Stable Ce-Doped LaSrCrFeO-Based Cathode Catalyst for CO ₂ SOECs. ACS Applied Materials & Interfaces, 2016, 8, 6457-6463.	4.0	101
38	New Opportunity for <i>In Situ</i> Exsolution of Metallic Nanoparticles on Perovskite Parent. Nano Letters, 2016, 16, 5303-5309.	4.5	222
39	Anode-Engineered Protonic Ceramic Fuel Cell with Excellent Performance and Fuel Compatibility. Advanced Materials, 2016, 28, 8922-8926.	11.1	94
40	Fuel Cells: Anode-Engineered Protonic Ceramic Fuel Cell with Excellent Performance and Fuel Compatibility (Adv. Mater. 40/2016). Advanced Materials, 2016, 28, 8921-8921.	11.1	1
41	A bifunctional solid oxide electrolysis cell for simultaneous CO ₂ utilization and synthesis gas production. Chemical Communications, 2016, 52, 13687-13690.	2.2	10
42	The Excellence of Both Worlds: Developing Effective Double Perovskite Oxide Catalyst of Oxygen Reduction Reaction for Room and Elevated Temperature Applications. Advanced Functional Materials, 2016, 26, 4106-4112.	7.8	106
43	Facile Synthesis of Highly Active and Robust Ni-Mo Bimetallic Electrocatalyst for Hydrocarbon Oxidation in Solid Oxide Fuel Cells. ACS Energy Letters, 2016, 1, 225-230.	8.8	27
44	Toward highly efficient in situ dry reforming of H ₂ S contaminated methane in solid oxide fuel cells via incorporating a coke/sulfur resistant bimetallic catalyst layer. Journal of Materials Chemistry A, 2016, 4, 9080-9087.	5.2	26
45	Bifunctional Catalyst of Core-Shell Nanoparticles Socketed on Oxygen-Deficient Layered Perovskite for Soot Combustion: <i>In Situ</i> Observation of Synergistic Dual Active Sites. ACS Catalysis, 2016, 6, 2710-2714.	5.5	70
46	Biogas to syngas: flexible on-cell micro-reformer and NiSn bimetallic nanoparticle implanted solid oxide fuel cells for efficient energy conversion. Journal of Materials Chemistry A, 2016, 4, 4603-4609.	5.2	30
47	Molybdenum doped Pr _{0.5} Ba _{0.5} MnO ₃ (Mo-PBMO) double perovskite as a potential solid oxide fuel cell anode material. Journal of Power Sources, 2016, 301, 237-241.	4.0	76
48	Novel layered solid oxide fuel cells with multiple-twinned Ni _{0.8} Co _{0.2} nanoparticles: the key to thermally independent CO ₂ utilization and power-chemical cogeneration. Energy and Environmental Science, 2016, 9, 207-215.	15.6	103
49	In situ chemical synthesis of sandwich-structured MnO ₂ /graphene nanoflowers and their supercapacitive behavior. Electrochimica Acta, 2015, 173, 148-155.	2.6	52
50	Designed synthesis of a novel BiVO ₄ -Cu ₂ O-TiO ₂ as an efficient visible-light-responding photocatalyst. Journal of Colloid and Interface Science, 2015, 444, 58-66.	5.0	56
51	Facile fabrication of sandwich-structured Co ₃ O ₄ /N-rGO/AB hybrid with enhanced ORR electrocatalytic performances for metal-air batteries. RSC Advances, 2015, 5, 9057-9063.	1.7	17
52	Fabrication of gold nanoparticles-decorated reduced graphene oxide as a high performance electrochemical sensing platform for the detection of toxicant Sudan I. Electrochimica Acta, 2015, 167, 226-236.	2.6	63
53	A facile one-step in situ synthesis of copper nanostructures/graphene oxide as an efficient electrocatalyst for 2-naphthol sensing application. Electrochimica Acta, 2015, 153, 352-360.	2.6	33
54	Controlling the Anisotropic Surface Wetting of Metal Nanoparticles by a Competitive Ligand Packing Strategy: Implications for Encapsulation. ACS Applied Nano Materials, 0, , .	2.4	0