## Ya-Qian Zhang

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4642013/publications.pdf

Version: 2024-02-01

54 papers 3,352 citations

32 h-index 50 g-index

54 all docs

54 docs citations

times ranked

54

4620 citing authors

#	Article	IF	CITATIONS
1	Graphitic Carbon Nitride (g <sub>3</sub> N <sub>4</sub> )â€Derived Nâ€Rich Graphene with Tuneable Interlayer Distance as a Highâ€Rate Anode for Sodiumâ€lon Batteries. Advanced Materials, 2019, 31, e1901261.	11.1	362
2	New Opportunity for <i>in Situ</i> Exsolution of Metallic Nanoparticles on Perovskite Parent. Nano Letters, 2016, 16, 5303-5309.	4.5	222
3	A coupling for success: Controlled growth of Co/CoOx nanoshoots on perovskite mesoporous nanofibres as high-performance trifunctional electrocatalysts in alkaline condition. Nano Energy, 2017, 32, 247-254.	8.2	189
4	The interplay between thermodynamics and kinetics in the solid-state synthesis of layered oxides. Nature Materials, 2020, 19, 1088-1095.	13.3	129
5	Confining ultrasmall bimetallic alloys in porous N–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
6	Allâ€Inâ€One Perovskite Catalyst: Smart Controls of Architecture and Composition toward Enhanced Oxygen/Hydrogen Evolution Reactions. Advanced Energy Materials, 2017, 7, 1700666.	10.2	124
7	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
8	Novel layered solid oxide fuel cells with multiple-twinned Ni <sub>0.8</sub> Co <sub>0.2</sub> nanoparticles: the key to thermally independent CO <sub>2</sub> utilization and power-chemical cogeneration. Energy and Environmental Science, 2016, 9, 207-215.	15.6	103
9	Highly Active and Redox-Stable Ce-Doped LaSrCrFeO-Based Cathode Catalyst for CO <sub>2</sub> SOECs. ACS Applied Materials & Source (applied Materials & Source) (applied Materials & Source) (but the control of the contr	4.0	101
10	Characterization of mechanical degradation in an all-solid-state battery cathode. Journal of Materials Chemistry A, 2020, 8, 17399-17404.	5.2	100
11	Wavy SnO2 catalyzed simultaneous reinforcement of carbon dioxide adsorption and activation towards electrochemical conversion of CO2 to HCOOH. Applied Catalysis B: Environmental, 2020, 261, 118243.	10.8	97
12	Anodeâ€Engineered Protonic Ceramic Fuel Cell with Excellent Performance and Fuel Compatibility. Advanced Materials, 2016, 28, 8922-8926.	11.1	94
13	Stabilizing Double Perovskite for Effective Bifunctional Oxygen Electrocatalysis in Alkaline Conditions. Chemistry of Materials, 2017, 29, 6228-6237.	3.2	94
14	<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
15	A Wireless Power Transfer System With Dual Switch-Controlled Capacitors for Efficiency Optimization. IEEE Transactions on Power Electronics, 2020, 35, 6091-6101.	5.4	85
16	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
17	Molybdenum doped Pr0.5Ba0.5MnO3â^δ (Mo-PBMO) double perovskite as a potential solid oxide fuel cell anode material. Journal of Power Sources, 2016, 301, 237-241.	4.0	76
18	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

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19	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
20	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
21	Direct Visualization of the Interfacial Degradation of Cathode Coatings in Solid State Batteries: A Combined Experimental and Computational Study. Advanced Energy Materials, 2020, 10, 1903778.	10.2	67
22	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
23	A rational design for enhanced oxygen reduction: Strongly coupled silver nanoparticles and engineered perovskite nanofibers. Nano Energy, 2017, 38, 392-400.	8.2	60
24	Designed synthesis of a novel BiVO4–Cu2O–TiO2 as an efficient visible-light-responding photocatalyst. Journal of Colloid and Interface Science, 2015, 444, 58-66.	5.0	56
25	Separation and Quantum Tunneling of Photo-generated Carriers Using a Tribo-Induced Field. Matter, 2019, 1, 650-660.	5.0	56
26	In situ chemical synthesis of sandwich-structured MnO 2 /graphene nanoflowers and their supercapacitive behavior. Electrochimica Acta, 2015, 173, 148-155.	2.6	52
27	Tuning adsorption strength of CO2 and its intermediates on tin oxide-based electrocatalyst for efficient CO2 reduction towards carbonaceous products. Applied Catalysis B: Environmental, 2020, 277, 119252.	10.8	50
28	Hierarchical electrode design of highly efficient and stable unitized regenerative fuel cells (URFCs) for long-term energy storage. Energy and Environmental Science, 2020, 13, 4872-4881.	15.6	43
29	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
30	A-site deficient perovskite with nano-socketed Ni-Fe alloy particles as highly active and durable catalyst for high-temperature CO2 electrolysis. Electrochimica Acta, 2020, 335, 135683.	2.6	38
31	Tuning local carbon active sites saturability of graphitic carbon nitride to boost CO2 electroreduction towards CH4. Nano Energy, 2020, 73, 104833.	8.2	35
32	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
33	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
34	Smart tuning of 3D ordered electrocatalysts for enhanced oxygen reduction reaction. Applied Catalysis B: Environmental, 2017, 219, 640-644.	10.8	33
35	Realizing continuous cation order-to-disorder tuning in a class of high-energy spinel-type Li-ion cathodes. Matter, 2021, 4, 3897-3916.	5.0	32
36	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.	<b>5.</b> 2	30

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37	Nanowrinkled Carbon Aerogels Embedded with FeNx Sites as Effective Oxygen Electrodes for Rechargeable Zinc-Air Battery. Research, 2019, 2019, 6813585.	2.8	29
38	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
39	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
40	Toward highly efficient in situ dry reforming of H <sub>2</sub> 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
41	In-situ resonant band engineering of solution-processed semiconductors generates high performance n-type thermoelectric nano-inks. Nature Communications, 2020, 11, 2069.	5.8	23
42	Increasing Capacity in Disordered Rocksalt Cathodes by Mg Doping. Chemistry of Materials, 2020, 32, 10728-10736.	3.2	21
43	Thermodynamically Driven Synthetic Optimization for Cationâ€Disordered Rock Salt Cathodes. Advanced Energy Materials, 2022, 12, .	10.2	20
44	Facile fabrication of sandwich-structured Co3O4/N-rGO/AB hybrid with enhanced ORR electrocatalytic performances for metal–air batteries. RSC Advances, 2015, 5, 9057-9063.	1.7	17
45	Organic Photochemistry-Assisted Nanoparticle Segregation on Perovskites. Cell Reports Physical Science, 2020, 1, 100243.	2.8	11
46	Phase-contrast imaging of multiply-scattering extended objects at atomic resolution by reconstruction of the scattering matrix. Physical Review Research, 2021, 3, .	1.3	11
47	A bifunctional solid oxide electrolysis cell for simultaneous CO <sub>2</sub> utilization and synthesis gas production. Chemical Communications, 2016, 52, 13687-13690.	2.2	10
48	Solid-State Calcium-lon Diffusion in Ca <sub>1.5</sub> Ba <sub>0.5</sub> Si <sub>5</sub> O <sub>3</sub> N <sub>6</sub> . Chemistry of Materials, 2022, 34, 128-139.	3.2	7
49	Modified Feedforward Control to Suppress DC Voltage Disturbances for Three-Stage MMC-PET. , 2019, , .		4
50	Ce/Ni Decorated Titanate Based Perovskite for Solid Oxide Fuel Cells. ECS Transactions, 2017, 75, 91-97.	0.3	2
51	Fuel Cells: Anodeâ€Engineered Protonic Ceramic Fuel Cell with Excellent Performance and Fuel Compatibility (Adv. Mater. 40/2016). Advanced Materials, 2016, 28, 8921-8921.	11.1	1
52	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
53	The Interplay between Thermodynamics and Kinetics in the Solid-State Synthesis of Layered Oxides. ECS Meeting Abstracts, 2020, MA2020-02, 313-313.	0.0	0
54	Resolving Li-F Locking Effect in Disordered Rocksalt Cathodes with Mg-Doping. ECS Meeting Abstracts, 2020, MA2020-02, 129-129.	0.0	0