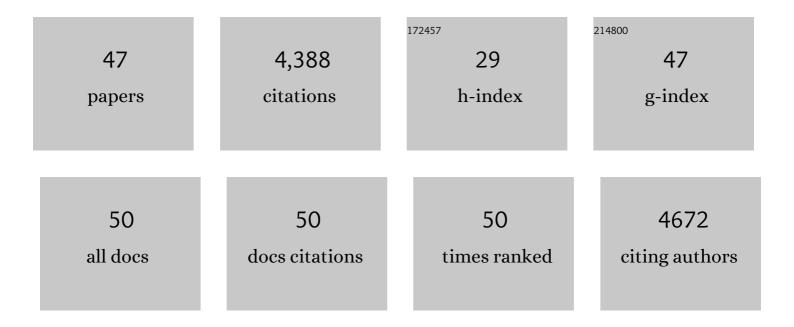
Zhennan Huang

List of Publications by Year in descending order

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Ζηένναν Ημάνς

#	Article	IF	CITATIONS
1	Interface Engineering Between Multiâ€Elemental Alloy Nanoparticles and a Carbon Support Toward Stable Catalysts. Advanced Materials, 2022, 34, e2106436.	21.0	30
2	Oxo dicopper anchored on carbon nitride for selective oxidation of methane. Nature Communications, 2022, 13, 1375.	12.8	98
3	Ultrasound-mediated synthesis of nanoporous fluorite-structured high-entropy oxides toward noble metal stabilization. IScience, 2022, 25, 104214.	4.1	6
4	Measuring and directing charge transfer in heterogenous catalysts. Nature Communications, 2022, 13,	12.8	19
5	Denary oxide nanoparticles as highly stable catalysts for methane combustion. Nature Catalysis, 2021, 4, 62-70.	34.4	153
6	<i>In Situ</i> Strong Metal–Support Interaction (SMSI) Affects Catalytic Alcohol Conversion. ACS Catalysis, 2021, 11, 1938-1945.	11.2	50
7	Carbonâ€Supported Highâ€Entropy Oxide Nanoparticles as Stable Electrocatalysts for Oxygen Reduction Reactions. Advanced Functional Materials, 2021, 31, 2010561.	14.9	86
8	Extreme mixing in nanoscale transition metal alloys. Matter, 2021, 4, 2340-2353.	10.0	102
9	Scalable Synthesis of High Entropy Alloy Nanoparticles by Microwave Heating. ACS Nano, 2021, 15, 14928-14937.	14.6	85
10	Composition-dependent structure and properties of 5- and 15-element high-entropy alloy nanoparticles. Cell Reports Physical Science, 2021, 2, 100641.	5.6	8
11	A Theory-Guided X-ray Absorption Spectroscopy Approach for Identifying Active Sites in Atomically Dispersed Transition-Metal Catalysts. Journal of the American Chemical Society, 2021, 143, 20144-20156.	13.7	28
12	Continuous 2000â€ [−] K droplet-to-particle synthesis. Materials Today, 2020, 35, 106-114.	14.2	43
13	Novel PMMA bone cement nanocomposites containing magnesium phosphate nanosheets and hydroxyapatite nanofibers. Materials Science and Engineering C, 2020, 109, 110497.	7.3	47
14	Continuous Synthesis of Hollow Highâ€Entropy Nanoparticles for Energy and Catalysis Applications. Advanced Materials, 2020, 32, e2002853.	21.0	93
15	Alcohol-Induced Low-Temperature Blockage of Supported-Metal Catalysts for Enhanced Catalysis. ACS Catalysis, 2020, 10, 8515-8523.	11.2	18
16	Direct observation of the formation and stabilization of metallic nanoparticles on carbon supports. Nature Communications, 2020, 11, 6373.	12.8	65
17	In Situ TEM Investigation on the Thermal Stability of Hydroxyapatite Nanobelts. Microscopy and Microanalysis, 2020, 26, 1426-1426.	0.4	0
18	In Situ TEM Visualization on the Super Flexibility of Multi-layered Hydroxyapatite Nanobelts with Antibacterial Property. Microscopy and Microanalysis, 2020, 26, 1428-1429.	0.4	0

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19	Computationally aided, entropy-driven synthesis of highly efficient and durable multi-elemental alloy catalysts. Science Advances, 2020, 6, eaaz0510.	10.3	158
20	Solution Blowing Synthesis of Li-Conductive Ceramic Nanofibers. ACS Applied Materials & Interfaces, 2020, 12, 16200-16208.	8.0	15
21	Synthesis of high-entropy alloy nanoparticles on supports by the fast moving bed pyrolysis. Nature Communications, 2020, 11, 2016.	12.8	195
22	High-throughput, combinatorial synthesis of multimetallic nanoclusters. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6316-6322.	7.1	119
23	High temperature shockwave stabilized single atoms. Nature Nanotechnology, 2019, 14, 851-857.	31.5	278
24	Stable Multimetallic Nanoparticles for Oxygen Electrocatalysis. Nano Letters, 2019, 19, 5149-5158.	9.1	94
25	Ultrafast, Controllable Synthesis of Sub-Nano Metallic Clusters through Defect Engineering. ACS Applied Materials & Interfaces, 2019, 11, 29773-29779.	8.0	28
26	Uniform, Scalable, High-Temperature Microwave Shock for Nanoparticle Synthesis through Defect Engineering. Matter, 2019, 1, 759-769.	10.0	58
27	Highly efficient decomposition of ammonia using high-entropy alloy catalysts. Nature Communications, 2019, 10, 4011.	12.8	376
28	In situ TEM Observation of Nanoparticles Formation during Carbothermal Shock. Microscopy and Microanalysis, 2019, 25, 1534-1535.	0.4	0
29	Metal–organic framework derived 3D graphene decorated NaTi ₂ (PO ₄) ₃ for fast Na-ion storage. Nanoscale, 2019, 11, 7347-7357.	5.6	23
30	Purifying the Phase of NaTi ₂ (PO ₄) ₃ for Enhanced Na ⁺ Storage Properties. ACS Applied Materials & Interfaces, 2019, 11, 10663-10671.	8.0	27
31	Ordering Heterogeneity of [MnO6] Octahedra in Tunnel-Structured MnO2 and Its Influence on Ion Storage. Joule, 2019, 3, 471-484.	24.0	123
32	High-rate, long cycle-life Li-ion battery anodes enabled by ultrasmall tin-based nanoparticles encapsulation. Energy Storage Materials, 2018, 14, 169-178.	18.0	47
33	Synergistic Effect of Graphene Oxide for Impeding the Dendritic Plating of Li. Advanced Functional Materials, 2018, 28, 1705917.	14.9	92
34	<i>In situ</i> visualization of the superior nanomechanical flexibility of individual hydroxyapatite nanobelts. CrystEngComm, 2018, 20, 1031-1036.	2.6	7
35	Directly Formed Alucone on Lithium Metal for High-Performance Li Batteries and Li–S Batteries with High Sulfur Mass Loading. ACS Applied Materials & Interfaces, 2018, 10, 7043-7051.	8.0	66
36	Facile hydrothermal synthesis of antibacterial multi-layered hydroxyapatite nanostructures with superior flexibility. CrystEngComm, 2018, 20, 1304-1312.	2.6	15

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37	Carbothermal shock synthesis of high-entropy-alloy nanoparticles. Science, 2018, 359, 1489-1494.	12.6	1,065
38	Cations controlled growth of \hat{l}^2 -MnO2 crystals with tunable facets for electrochemical energy storage. Nano Energy, 2018, 48, 301-311.	16.0	56
39	Energy-driven surface evolution in beta-MnO2 structures. Nano Research, 2018, 11, 206-215.	10.4	15
40	Highâ€Temperature Atomic Mixing toward Wellâ€Dispersed Bimetallic Electrocatalysts. Advanced Energy Materials, 2018, 8, 1800466.	19.5	43
41	Novel ALD Chemistry Enabled Low-Temperature Synthesis of Lithium Fluoride Coatings for Durable Lithium Anodes. ACS Applied Materials & Interfaces, 2018, 10, 26972-26981.	8.0	99
42	Elevatedâ€Temperature 3D Printing of Hybrid Solidâ€State Electrolyte for Liâ€Ion Batteries. Advanced Materials, 2018, 30, e1800615.	21.0	159
43	<i>In Situ</i> High Temperature Synthesis of Single-Component Metallic Nanoparticles. ACS Central Science, 2017, 3, 294-301.	11.3	34
44	Local Lattice Distortion Activate Metastable Metal Sulfide as Catalyst with Stable Full Discharge–Charge Capability for Li–O ₂ Batteries. Nano Letters, 2017, 17, 3518-3526.	9.1	68
45	Lithium metal protected by atomic layer deposition metal oxide for high performance anodes. Journal of Materials Chemistry A, 2017, 5, 12297-12309.	10.3	150
46	Engineering of highly ordered TiO 2 nanopore arrays by anodization. Applied Surface Science, 2016, 377, 335-339.	6.1	10
47	Mechanistic study of selective catalytic reduction of NO with NH3 over highly dispersed Fe2O3 loaded on Fe-ZSM-5, RSC Advances, 2016, 6, 6300-6307.	3.6	12