## Zhanxi Fan

## List of Publications by Year in descending order

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Version: 2024-02-01

93 papers 15,744 citations

23500 58 h-index 94 g-index

103 all docs

 $\begin{array}{c} 103 \\ \\ \text{docs citations} \end{array}$ 

103 times ranked

19759 citing authors

#	Article	IF	CITATIONS
1	Synthesis of Fewâ€Layer MoS <sub>2</sub> Nanosheetâ€Coated TiO <sub>2</sub> Nanobelt Heterostructures for Enhanced Photocatalytic Activities. Small, 2013, 9, 140-147.	5.2	1,166
2	Grapheneâ€Based Electrodes. Advanced Materials, 2012, 24, 5979-6004.	11.1	829
3	Solution-phase epitaxial growth of noble metal nanostructures on dispersible single-layer molybdenum disulfide nanosheets. Nature Communications, 2013, 4, 1444.	5.8	756
4	Two-Dimensional Metal Nanomaterials: Synthesis, Properties, and Applications. Chemical Reviews, 2018, 118, 6409-6455.	23.0	711
5	Nitrogen and Sulfur Codoped Graphene: Multifunctional Electrode Materials for Highâ€Performance Liâ€Ion Batteries and Oxygen Reduction Reaction. Advanced Materials, 2014, 26, 6186-6192.	11.1	598
6	Oneâ€pot Synthesis of CdS Nanocrystals Hybridized with Singleâ€Layer Transitionâ€Metal Dichalcogenide Nanosheets for Efficient Photocatalytic Hydrogen Evolution. Angewandte Chemie - International Edition, 2015, 54, 1210-1214.	<b>7.</b> 2	584
7	An Effective Method for the Fabrication of Fewâ€Layerâ€Thick Inorganic Nanosheets. Angewandte Chemie - International Edition, 2012, 51, 9052-9056.	7.2	520
8	A V <sub>2</sub> O <sub>5</sub> /Conductiveâ€Polymer Core/Shell Nanobelt Array on Threeâ€Dimensional Graphite Foam: A Highâ€Rate, Ultrastable, and Freestanding Cathode for Lithiumâ€Ion Batteries. Advanced Materials, 2014, 26, 5794-5800.	11.1	450
9	Iron Oxide-Decorated Carbon for Supercapacitor Anodes with Ultrahigh Energy Density and Outstanding Cycling Stability. ACS Nano, 2015, 9, 5198-5207.	7.3	441
10	Phase engineering of nanomaterials. Nature Reviews Chemistry, 2020, 4, 243-256.	13.8	438
11	A New Type of Porous Graphite Foams and Their Integrated Composites with Oxide/Polymer Core/Shell Nanowires for Supercapacitors: Structural Design, Fabrication, and Full Supercapacitor Demonstrations. Nano Letters, 2014, 14, 1651-1658.	4.5	428
12	Hierarchical Ni-Mo-S nanosheets on carbon fiber cloth: A flexible electrode for efficient hydrogen generation in neutral electrolyte. Science Advances, 2015, 1, e1500259.	4.7	427
13	Reduced Graphene Oxideâ€Wrapped MoO <sub>3</sub> Composites Prepared by Using Metal–Organic Frameworks as Precursor for Allâ€Solidâ€State Flexible Supercapacitors. Advanced Materials, 2015, 27, 4695-4701.	11.1	388
14	Facile Approach in Fabricating Superhydrophobic and Superoleophilic Surface for Water and Oil Mixture Separation. ACS Applied Materials & Samp; Interfaces, 2009, 1, 2613-2617.	4.0	341
15	Oneâ€Pot Synthesis of Highly Anisotropic Fiveâ€Foldâ€Twinned PtCu Nanoframes Used as a Bifunctional Electrocatalyst for Oxygen Reduction and Methanol Oxidation. Advanced Materials, 2016, 28, 8712-8717.	11.1	336
16	Crystal phase-controlled synthesis, properties and applications of noble metal nanomaterials. Chemical Society Reviews, 2016, 45, 63-82.	18.7	330
17	Evolution of disposable bamboo chopsticks into uniform carbon fibers: a smart strategy to fabricate sustainable anodes for Li-ion batteries. Energy and Environmental Science, 2014, 7, 2670-2679.	15.6	271
18	Highly Stable and Reversible Lithium Storage in SnO <sub>2</sub> Nanowires Surface Coated with a Uniform Hollow Shell by Atomic Layer Deposition. Nano Letters, 2014, 14, 4852-4858.	4.5	269

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19	Recent Progress on Two-Dimensional Materials. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2021, .	2.2	269
20	Crystal phase-based epitaxial growth of hybrid noble metal nanostructures on 4H/fcc Au nanowires. Nature Chemistry, 2018, 10, 456-461.	6.6	220
21	Stabilization of 4H hexagonal phase in gold nanoribbons. Nature Communications, 2015, 6, 7684.	5.8	215
22	Tubular TiC fibre nanostructures as supercapacitor electrode materials with stable cycling life and wide-temperature performance. Energy and Environmental Science, 2015, 8, 1559-1568.	15.6	210
23	Synthesis of Ultrathin PdCu Alloy Nanosheets Used as a Highly Efficient Electrocatalyst for Formic Acid Oxidation. Advanced Materials, 2017, 29, 1700769.	11.1	207
24	Recent Advances in Sensing Applications of Twoâ€Dimensional Transition Metal Dichalcogenide Nanosheets and Their Composites. Advanced Functional Materials, 2017, 27, 1605817.	7.8	206
25	Ultrathin Twoâ€Dimensional Organic–Inorganic Hybrid Perovskite Nanosheets with Bright, Tunable Photoluminescence and High Stability. Angewandte Chemie - International Edition, 2017, 56, 4252-4255.	7.2	206
26	Thin metal nanostructures: synthesis, properties and applications. Chemical Science, 2015, 6, 95-111.	3.7	198
27	Synthesis of 4H/ <i>fcc</i> Noble Multimetallic Nanoribbons for Electrocatalytic Hydrogen Evolution Reaction. Journal of the American Chemical Society, 2016, 138, 1414-1419.	6.6	196
28	Surface modification-induced phase transformation of hexagonal close-packed gold square sheets. Nature Communications, 2015, 6, 6571.	5.8	195
29	Ethylene Selectivity in Electrocatalytic CO <sub>2</sub> Reduction on Cu Nanomaterials: A Crystal Phase-Dependent Study. Journal of the American Chemical Society, 2020, 142, 12760-12766.	6.6	183
30	Template Synthesis of Noble Metal Nanocrystals with Unusual Crystal Structures and Their Catalytic Applications. Accounts of Chemical Research, 2016, 49, 2841-2850.	7.6	181
31	Coating Two-Dimensional Nanomaterials with Metal–Organic Frameworks. ACS Nano, 2014, 8, 8695-8701.	7.3	168
32	TiO2 nanotube @ SnO2 nanoflake core–branch arrays for lithium-ion battery anode. Nano Energy, 2014, 4, 105-112.	8.2	165
33	VO <sub>2</sub> nanoflake arrays for supercapacitor and Li-ion battery electrodes: performance enhancement by hydrogen molybdenum bronze as an efficient shell material. Materials Horizons, 2015, 2, 237-244.	6.4	152
34	Submonolayered Ru Deposited on Ultrathin Pd Nanosheets used for Enhanced Catalytic Applications. Advanced Materials, 2016, 28, 10282-10286.	11.1	148
35	3D Carbon/Cobaltâ€Nickel Mixedâ€Oxide Hybrid Nanostructured Arrays for Asymmetric Supercapacitors. Small, 2014, 10, 2937-2945.	5.2	146
36	Highâ€Yield Synthesis of Crystalâ€Phaseâ€Heterostructured 4H/fcc Au@Pd Core–Shell Nanorods for Electrocatalytic Ethanol Oxidation. Advanced Materials, 2017, 29, 1701331.	11.1	144

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37	Novel Metal@Carbon Spheres Core–Shell Arrays by Controlled Selfâ€Assembly of Carbon Nanospheres: A Stable and Flexible Supercapacitor Electrode. Advanced Energy Materials, 2015, 5, 1401709.	10.2	139
38	Supramolecular Polymerization Promoted In Situ Fabrication of Nitrogenâ€Doped Porous Graphene Sheets as Anode Materials for Liâ€Ion Batteries. Advanced Energy Materials, 2015, 5, 1500559.	10.2	133
39	Recent Progresses in Electrochemical Carbon Dioxide Reduction on Copperâ€Based Catalysts toward Multicarbon Products. Advanced Functional Materials, 2021, 31, 2102151.	7.8	123
40	Synthesis of Ultrathin Faceâ€Centeredâ€Cubic Au@Pt and Au@Pd Core–Shell Nanoplates from Hexagonalâ€Closeâ€Packed Au Square Sheets. Angewandte Chemie - International Edition, 2015, 54, 5672-5676.	7.2	111
41	Phase-Selective Epitaxial Growth of Heterophase Nanostructures on Unconventional 2H-Pd Nanoparticles. Journal of the American Chemical Society, 2020, 142, 18971-18980.	6.6	111
42	Tandem catalysis in electrochemical CO2 reduction reaction. Nano Research, 2021, 14, 4471-4486.	5.8	105
43	Conformally deposited NiO on a hierarchical carbon support for high-power and durable asymmetric supercapacitors. Journal of Materials Chemistry A, 2015, 3, 23283-23288.	5.2	103
44	Enhanced Lithium Storage Performance of CuO Nanowires by Coating of Graphene Quantum Dots. Advanced Materials Interfaces, 2015, 2, 1400499.	1.9	102
45	Heterophase fcc-2H-fcc gold nanorods. Nature Communications, 2020, 11, 3293.	5.8	92
46	Preparation of Au@Pd Core–Shell Nanorods with <i>fcc</i> -2H- <i>fcc</i> Heterophase for Highly Efficient Electrocatalytic Alcohol Oxidation. Journal of the American Chemical Society, 2022, 144, 547-555.	6.6	88
47	Phase Engineering of Nanomaterials for Clean Energy and Catalytic Applications. Advanced Energy Materials, 2020, 10, 2002019.	10.2	85
48	Confined Growth of Silver–Copper Janus Nanostructures with {100} Facets for Highly Selective Tandem Electrocatalytic Carbon Dioxide Reduction. Advanced Materials, 2022, 34, e2110607.	11.1	82
49	Epitaxial growth of unusual 4H hexagonal Ir, Rh, Os, Ru and Cu nanostructures on 4H Au nanoribbons. Chemical Science, 2017, 8, 795-799.	3.7	81
50	Chemically engineered graphene oxide as high performance cathode materials for Li-ion batteries. Carbon, 2014, 76, 148-154.	5.4	80
51	Crystal Phase Control of Gold Nanomaterials by Wet-Chemical Synthesis. Accounts of Chemical Research, 2020, 53, 2106-2118.	7.6	75
52	Surface modification of metal materials for high-performance electrocatalytic carbon dioxide reduction. Matter, 2021, 4, 888-926.	5.0	74
53	Facile synthesis of gold nanomaterials with unusual crystal structures. Nature Protocols, 2017, 12, 2367-2376.	5.5	72
54	A Universal Method for Preparation of Noble Metal Nanoparticleâ€Decorated Transition Metal Dichalcogenide Nanobelts. Advanced Materials, 2014, 26, 6250-6254.	11.1	71

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55	AuAg Nanosheets Assembled from Ultrathin AuAg Nanowires. Journal of the American Chemical Society, 2015, 137, 1444-1447.	6.6	68
56	Synthesis of Pd <sub>3</sub> Sn and PdCuSn Nanorods with <i>L1<sub>2</sub></i> Phase for Highly Efficient Electrocatalytic Ethanol Oxidation. Advanced Materials, 2022, 34, e2106115.	11.1	65
57	Evoking ordered vacancies in metallic nanostructures toward a vacated Barlow packing for high-performance hydrogen evolution. Science Advances, 2021, 7, .	4.7	64
58	Atomic-layer-deposited iron oxide on arrays of metal/carbon spheres and their application for electrocatalysis. Nano Energy, 2016, 20, 244-253.	8.2	62
59	Synthesis of 4H/ <i>fcc</i> eAu@M (M = Ir, Os, IrOs) Coreâ€Shell Nanoribbons For Electrocatalytic Oxygen Evolution Reaction. Small, 2016, 12, 3908-3913.	5.2	59
60	Efficient polymer/nanocrystal hybrid solar cells fabricated from aqueous materials. Energy and Environmental Science, 2011, 4, 2831.	15.6	58
61	Dopantâ€Free Holeâ€Transporting Material with Enhanced Intermolecular Interaction for Efficient and Stable nâ€iâ€p Perovskite Solar Cells. Advanced Energy Materials, 2021, 11, 2100967.	10.2	51
62	Controllable Galvanic Synthesis of Triangular Ag–Pd Alloy Nanoframes for Efficient Electrocatalytic Methanol Oxidation. Chemistry - A European Journal, 2015, 21, 8691-8695.	1.7	48
63	Molecular‣evel Design of Hierarchically Porous Carbons Codoped with Nitrogen and Phosphorus Capable of In Situ Selfâ€Activation for Sustainable Energy Systems. Small, 2017, 13, 1602010.	5.2	47
64	Undercoordinated Active Sites on 4H Gold Nanostructures for CO <sub>2</sub> Reduction. Nano Letters, 2020, 20, 8074-8080.	4.5	46
65	Synthesis of 4H/fcc-Au@Metal Sulfide Core–Shell Nanoribbons. Journal of the American Chemical Society, 2015, 137, 10910-10913.	6.6	44
66	Triangular Ag–Pd alloy nanoprisms: rational synthesis with high-efficiency for electrocatalytic oxygen reduction. Nanoscale, 2014, 6, 11738-11743.	2.8	43
67	Decreasing the Overpotential of Aprotic Liâ€CO <sub>2</sub> Batteries with the Inâ€Plane Alloy Structure in Ultrathin 2D Ruâ€Based Nanosheets. Advanced Functional Materials, 2022, 32, .	7.8	39
68	Aqueous-Solution-Processed Hybrid Solar Cells from Poly(1,4-naphthalenevinylene) and CdTe Nanocrystals. ACS Applied Materials & Interfaces, 2011, 3, 2919-2923.	4.0	32
69	Crystal phase-controlled growth of PtCu and PtCo alloys on 4H Au nanoribbons for electrocatalytic ethanol oxidation reaction. Nano Research, 2020, 13, 1970-1975.	5.8	32
70	Thermal Effect and Rayleigh Instability of Ultrathin 4H Hexagonal Gold Nanoribbons. Matter, 2020, 2, 658-665.	5.0	30
71	Surface Molecular Functionalization of Unusual Phase Metal Nanomaterials for Highly Efficient Electrochemical Carbon Dioxide Reduction under Industryâ€Relevant Current Density. Small, 2022, 18, e2106766.	5.2	30
72	Recent Advances in the Controlled Synthesis and Catalytic Applications of Two-Dimensional Rhodium Nanomaterials., 2021, 3, 121-133.		28

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73	Electrochemical lithium extraction from aqueous sources. Matter, 2022, 5, 1760-1791.	5.0	27
74	Unusual 4H-phase twinned noble metal nanokites. Nature Communications, 2019, 10, 2881.	5.8	25
75	Rational Synthesis of Triangular Au–Ag <sub>2</sub> S Hybrid Nanoframes with Effective Photoresponses. Chemistry - A European Journal, 2014, 20, 2742-2745.	1.7	22
76	Transient Solidâ€State Laser Activation of Indium for Highâ€Performance Reduction of CO <sub>2</sub> to Formate. Small, 2022, 18, e2201311.	5.2	22
77	Encapsulation of nanoscale metal oxides into an ultra-thin Ni matrix for superior Li-ion batteries: a versatile strategy. Nanoscale, 2014, 6, 12990-13000.	2.8	21
78	Periodic AuAgâ€Ag <sub>2</sub> S Heterostructured Nanowires. Small, 2014, 10, 479-482.	5.2	20
79	Quasiâ€Epitaxial Growth of Magnetic Nanostructures on 4Hâ€Au Nanoribbons. Advanced Materials, 2021, 33, e2007140.	11.1	18
80	Achieving high open-circuit voltage in the PPV-CdHgTe bilayer photovoltaic devices on the basis of the heterojunction interfacial modification. Journal of Materials Chemistry, 2012, 22, 9161.	6.7	16
81	Gold-based nanoalloys: synthetic methods and catalytic applications. Journal of Materials Chemistry A, 2021, 9, 19025-19053.	5.2	16
82	General Synthesis of Ordered Mesoporous Carbonaceous Hybrid Nanostructures with Molecularly Dispersed Polyoxometallates. Angewandte Chemie - International Edition, 2021, 60, 15556-15562.	7.2	13
83	Substrate-bound growth of Au–Pd diblock nanowire and hybrid nanorod–plate. Nanoscale, 2015, 7, 8115-8121.	2.8	12
84	Graphene Oxide Scroll Meshes Prepared by Molecular Combing for Transparent and Flexible Electrodes. Advanced Materials Technologies, 2017, 2, 1600231.	3.0	12
85	Polymer-mediated growth of fluorescent semiconductor nanoparticles in preformed nanocomposites. Physical Chemistry Chemical Physics, 2010, 12, 11843.	1.3	9
86	Spirals and helices by asymmetric active surface growth. Nanoscale, 2017, 9, 18352-18358.	2.8	7
87	Deformation-Induced Phase Transformations in Gold Nanoribbons with the 4H Phase. ACS Nano, 2022, 16, 3272-3279.	7.3	5
88	Hard nanocrystalline gold materials prepared via high-pressure phase transformation. Nano Research, 0, , .	5.8	3
89	Nanosheet Sensors: Recent Advances in Sensing Applications of Twoâ€Dimensional Transition Metal Dichalcogenide Nanosheets and Their Composites (Adv. Funct. Mater. 19/2017). Advanced Functional Materials, 2017, 27, .	7.8	2
90	Key factors affecting Rayleigh instability of ultrathin 4H hexagonal gold nanoribbons. Nanoscale Advances, 2020, 2, 3027-3032.	2.2	1

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91	2D Materials for electrochemical carbon dioxide reduction. , 2021, , 183-196.		1
92	General Synthesis of Ordered Mesoporous Carbonaceous Hybrid Nanostructures with Molecularly Dispersed Polyoxometallates. Angewandte Chemie, 2021, 133, 15684-15690.	1.6	0
93	Graphene Quantum Dots Coating Enhances Lithium Storage Performance of CuO Nanowires., 2015,,.		0