

Zhanxi Fan

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93
papers

12,225
citations

50
h-index

103
g-index

103
ext. papers

13,886
ext. citations

16.2
avg. IF

6.48
L-index

#	Paper	IF	Citations
93	Synthesis of few-layer MoS ₂ nanosheet-coated TiO ₂ nanobelt heterostructures for enhanced photocatalytic activities. <i>Small</i> , 2013 , 9, 140-7	11	1059
92	Graphene-based electrodes. <i>Advanced Materials</i> , 2012 , 24, 5979-6004	24	756
91	Solution-phase epitaxial growth of noble metal nanostructures on dispersible single-layer molybdenum disulfide nanosheets. <i>Nature Communications</i> , 2013 , 4, 1444	17.4	658
90	Nitrogen and sulfur codoped graphene: multifunctional electrode materials for high-performance li-ion batteries and oxygen reduction reaction. <i>Advanced Materials</i> , 2014 , 26, 6186-92	24	532
89	One-pot synthesis of CdS nanocrystals hybridized with single-layer transition-metal dichalcogenide nanosheets for efficient photocatalytic hydrogen evolution. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 1210-4	16.4	519
88	Two-Dimensional Metal Nanomaterials: Synthesis, Properties, and Applications. <i>Chemical Reviews</i> , 2018 , 118, 6409-6455	68.1	467
87	An effective method for the fabrication of few-layer-thick inorganic nanosheets. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 9052-6	16.4	453
86	A V ₂ O ₅ /conductive-polymer core/shell nanobelt array on three-dimensional graphite foam: a high-rate, ultrastable, and freestanding cathode for lithium-ion batteries. <i>Advanced Materials</i> , 2014 , 26, 5794-800	24	400
85	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. <i>Nano Letters</i> , 2014 , 14, 1651-8	11.5	395
84	Iron oxide-decorated carbon for supercapacitor anodes with ultrahigh energy density and outstanding cycling stability. <i>ACS Nano</i> , 2015 , 9, 5198-207	16.7	375
83	Hierarchical Ni-Mo-S nanosheets on carbon fiber cloth: A flexible electrode for efficient hydrogen generation in neutral electrolyte. <i>Science Advances</i> , 2015 , 1, e1500259	14.3	356
82	Reduced graphene oxide-wrapped MoO ₃ composites prepared by using metal-organic frameworks as precursor for all-solid-state flexible supercapacitors. <i>Advanced Materials</i> , 2015 , 27, 4695-701	24	326
81	Facile approach in fabricating superhydrophobic and superoleophilic surface for water and oil mixture separation. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 2613-7	9.5	316
80	One-Pot Synthesis of Highly Anisotropic Five-Fold-Twinned PtCu Nanoframes Used as a Bifunctional Electrocatalyst for Oxygen Reduction and Methanol Oxidation. <i>Advanced Materials</i> , 2016 , 28, 8712-8717	24	275
79	Crystal phase-controlled synthesis, properties and applications of noble metal nanomaterials. <i>Chemical Society Reviews</i> , 2016 , 45, 63-82	58.5	268
78	Highly stable and reversible lithium storage in SnO ₂ nanowires surface coated with a uniform hollow shell by atomic layer deposition. <i>Nano Letters</i> , 2014 , 14, 4852-8	11.5	242
77	Evolution of disposable bamboo chopsticks into uniform carbon fibers: a smart strategy to fabricate sustainable anodes for Li-ion batteries. <i>Energy and Environmental Science</i> , 2014 , 7, 2670-2679	35.4	219

76	Phase engineering of nanomaterials. <i>Nature Reviews Chemistry</i> , 2020 , 4, 243-256	34.6	198
75	Tubular TiC fibre nanostructures as supercapacitor electrode materials with stable cycling life and wide-temperature performance. <i>Energy and Environmental Science</i> , 2015 , 8, 1559-1568	35.4	188
74	Thin metal nanostructures: synthesis, properties and applications. <i>Chemical Science</i> , 2015 , 6, 95-111	9.4	169
73	Ultrathin Two-Dimensional Organic-Inorganic Hybrid Perovskite Nanosheets with Bright, Tunable Photoluminescence and High Stability. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 4252-4255	16.4	165
72	Stabilization of 4H hexagonal phase in gold nanoribbons. <i>Nature Communications</i> , 2015 , 6, 7684	17.4	165
71	Crystal phase-based epitaxial growth of hybrid noble metal nanostructures on 4H/fcc Au nanowires. <i>Nature Chemistry</i> , 2018 , 10, 456-461	17.6	160
70	Surface modification-induced phase transformation of hexagonal close-packed gold square sheets. <i>Nature Communications</i> , 2015 , 6, 6571	17.4	157
69	Synthesis of Ultrathin PdCu Alloy Nanosheets Used as a Highly Efficient Electrocatalyst for Formic Acid Oxidation. <i>Advanced Materials</i> , 2017 , 29, 1700769	24	154
68	Synthesis of 4H/fcc Noble Multimetallic Nanoribbons for Electrocatalytic Hydrogen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2016 , 138, 1414-9	16.4	152
67	TiO ₂ nanotube @ SnO ₂ nanoflake core-shell arrays for lithium-ion battery anode. <i>Nano Energy</i> , 2014 , 4, 105-112	17.1	151
66	VO ₂ nanoflake arrays for supercapacitor and Li-ion battery electrodes: performance enhancement by hydrogen molybdenum bronze as an efficient shell material. <i>Materials Horizons</i> , 2015 , 2, 237-244	14.4	142
65	Coating two-dimensional nanomaterials with metal-organic frameworks. <i>ACS Nano</i> , 2014 , 8, 8695-701	16.7	141
64	Template Synthesis of Noble Metal Nanocrystals with Unusual Crystal Structures and Their Catalytic Applications. <i>Accounts of Chemical Research</i> , 2016 , 49, 2841-2850	24.3	139
63	Recent Advances in Sensing Applications of Two-Dimensional Transition Metal Dichalcogenide Nanosheets and Their Composites. <i>Advanced Functional Materials</i> , 2017 , 27, 1605817	15.6	137
62	One-pot Synthesis of CdS Nanocrystals Hybridized with Single-Layer Transition-Metal Dichalcogenide Nanosheets for Efficient Photocatalytic Hydrogen Evolution. <i>Angewandte Chemie</i> , 2015 , 127, 1226-1230	3.6	129
61	Novel Metal@Carbon Spheres Core-shell Arrays by Controlled Self-Assembly of Carbon Nanospheres: A Stable and Flexible Supercapacitor Electrode. <i>Advanced Energy Materials</i> , 2015 , 5, 1401709	21.8	129
60	3D carbon/cobalt-nickel mixed-oxide hybrid nanostructured arrays for asymmetric supercapacitors. <i>Small</i> , 2014 , 10, 2937-45	11	126
59	Submonolayered Ru Deposited on Ultrathin Pd Nanosheets used for Enhanced Catalytic Applications. <i>Advanced Materials</i> , 2016 , 28, 10282-10286	24	117

58	High-Yield Synthesis of Crystal-Phase-Heterostructured 4H/fcc Au@Pd Core-Shell Nanorods for Electrocatalytic Ethanol Oxidation. <i>Advanced Materials</i> , 2017 , 29, 1701331	24	112
57	Supramolecular Polymerization Promoted In Situ Fabrication of Nitrogen-Doped Porous Graphene Sheets as Anode Materials for Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2015 , 5, 1500559	21.8	112
56	Synthesis of ultrathin face-centered-cubic au@pt and au@pd core-shell nanoplates from hexagonal-close-packed au square sheets. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 5672-6	16.4	94
55	Ethylene Selectivity in Electrocatalytic CO Reduction on Cu Nanomaterials: A Crystal Phase-Dependent Study. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12760-12766	16.4	89
54	Conformally deposited NiO on a hierarchical carbon support for high-power and durable asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 23283-23288	13	82
53	Enhanced Lithium Storage Performance of CuO Nanowires by Coating of Graphene Quantum Dots. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1400499	4.6	80
52	Recent Progress on Two-Dimensional Materials. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2021 , 2108017-0	3.8	69
51	Chemically engineered graphene oxide as high performance cathode materials for Li-ion batteries. <i>Carbon</i> , 2014 , 76, 148-154	10.4	67
50	Epitaxial growth of unusual 4H hexagonal Ir, Rh, Os, Ru and Cu nanostructures on 4H Au nanoribbons. <i>Chemical Science</i> , 2017 , 8, 795-799	9.4	64
49	AuAg nanosheets assembled from ultrathin AuAg nanowires. <i>Journal of the American Chemical Society</i> , 2015 , 137, 1444-7	16.4	61
48	Atomic-layer-deposited iron oxide on arrays of metal/carbon spheres and their application for electrocatalysis. <i>Nano Energy</i> , 2016 , 20, 244-253	17.1	58
47	A universal method for preparation of noble metal nanoparticle-decorated transition metal dichalcogenide nanobelts. <i>Advanced Materials</i> , 2014 , 26, 6250-4	24	58
46	Facile synthesis of gold nanomaterials with unusual crystal structures. <i>Nature Protocols</i> , 2017 , 12, 2367-2378	23.78	56
45	Efficient polymer/nanocrystal hybrid solar cells fabricated from aqueous materials. <i>Energy and Environmental Science</i> , 2011 , 4, 2831	35.4	55
44	Phase-Selective Epitaxial Growth of Heterophase Nanostructures on Unconventional 2H-Pd Nanoparticles. <i>Journal of the American Chemical Society</i> , 2020 , 142, 18971-18980	16.4	53
43	Controllable galvanic synthesis of triangular Ag-Pd alloy nanoframes for efficient electrocatalytic methanol oxidation. <i>Chemistry - A European Journal</i> , 2015 , 21, 8691-5	4.8	44
42	Synthesis of 4H/fcc-Au@M (M = Ir, Os, IrOs) Core-Shell Nanoribbons For Electrocatalytic Oxygen Evolution Reaction. <i>Small</i> , 2016 , 12, 3908-13	11	44
41	Heterophase fcc-2H-fcc gold nanorods. <i>Nature Communications</i> , 2020 , 11, 3293	17.4	41

40	Phase Engineering of Nanomaterials for Clean Energy and Catalytic Applications. <i>Advanced Energy Materials</i> , 2020 , 10, 2002019	21.8	39
39	Molecular-Level Design of Hierarchically Porous Carbons Codoped with Nitrogen and Phosphorus Capable of In Situ Self-Activation for Sustainable Energy Systems. <i>Small</i> , 2017 , 13, 1602010	11	37
38	Synthesis of 4H/fcc-Au@Metal Sulfide Core-Shell Nanoribbons. <i>Journal of the American Chemical Society</i> , 2015 , 137, 10910-3	16.4	35
37	Triangular Ag-Pd alloy nanoprisms: rational synthesis with high-efficiency for electrocatalytic oxygen reduction. <i>Nanoscale</i> , 2014 , 6, 11738-43	7.7	35
36	Crystal Phase Control of Gold Nanomaterials by Wet-Chemical Synthesis. <i>Accounts of Chemical Research</i> , 2020 , 53, 2106-2118	24.3	34
35	An Effective Method for the Fabrication of Few-Layer-Thick Inorganic Nanosheets. <i>Angewandte Chemie</i> , 2012 , 124, 9186-9190	3.6	31
34	Aqueous-solution-processed hybrid solar cells from poly(1,4-naphthalenevinylene) and CdTe nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 2919-23	9.5	31
33	Recent Progresses in Electrochemical Carbon Dioxide Reduction on Copper-Based Catalysts toward Multicarbon Products. <i>Advanced Functional Materials</i> , 2021 , 31, 2102151	15.6	28
32	Synthesis of Ultrathin Face-Centered-Cubic Au@Pt and Au@Pd Core-Shell Nanoplates from Hexagonal-Close-Packed Au Square Sheets. <i>Angewandte Chemie</i> , 2015 , 127, 5764-5768	3.6	26
31	Tandem catalysis in electrochemical CO ₂ reduction reaction. <i>Nano Research</i> , 2021 , 14, 4471	10	26
30	Evoking ordered vacancies in metallic nanostructures toward a vacated Barlow packing for high-performance hydrogen evolution. <i>Science Advances</i> , 2021 , 7,	14.3	25
29	Undercoordinated Active Sites on 4H Gold Nanostructures for CO Reduction. <i>Nano Letters</i> , 2020 , 20, 8074-8080	11.5	21
28	Surface modification of metal materials for high-performance electrocatalytic carbon dioxide reduction. <i>Matter</i> , 2021 , 4, 888-926	12.7	21
27	Rational synthesis of triangular Au-Ag ₂ S hybrid nanoframes with effective photoresponses. <i>Chemistry - A European Journal</i> , 2014 , 20, 2742-5	4.8	19
26	Encapsulation of nanoscale metal oxides into an ultra-thin Ni matrix for superior Li-ion batteries: a versatile strategy. <i>Nanoscale</i> , 2014 , 6, 12990-3000	7.7	18
25	Periodic AuAg-Ag ₂ S heterostructured nanowires. <i>Small</i> , 2014 , 10, 479-82	11	17
24	Synthesis of Pd Sn and PdCuSn Nanorods with L1 Phase for Highly Efficient Electrocatalytic Ethanol Oxidation. <i>Advanced Materials</i> , 2021 , e2106115	24	17
23	Achieving high open-circuit voltage in the PPV-CdHgTe bilayer photovoltaic devices on the basis of the heterojunction interfacial modification. <i>Journal of Materials Chemistry</i> , 2012 , 22, 9161		16

22	Unusual 4H-phase twinned noble metal nanokites. <i>Nature Communications</i> , 2019 , 10, 2881	17.4	15
21	Thermal Effect and Rayleigh Instability of Ultrathin 4H Hexagonal Gold Nanoribbons. <i>Matter</i> , 2020 , 2, 658-665	12.7	14
20	Preparation of Au@Pd Core-Shell Nanorods with -2H- Heterophase for Highly Efficient Electrocatalytic Alcohol Oxidation.. <i>Journal of the American Chemical Society</i> , 2021 ,	16.4	13
19	Recent Advances in the Controlled Synthesis and Catalytic Applications of Two-Dimensional Rhodium Nanomaterials 2021 , 3, 121-133		12
18	Graphene Oxide Scroll Meshes Prepared by Molecular Combing for Transparent and Flexible Electrodes. <i>Advanced Materials Technologies</i> , 2017 , 2, 1600231	6.8	11
17	Crystal phase-controlled growth of PtCu and PtCo alloys on 4H Au nanoribbons for electrocatalytic ethanol oxidation reaction. <i>Nano Research</i> , 2020 , 13, 1970-1975	10	11
16	Dopant-Free Hole-Transporting Material with Enhanced Intermolecular Interaction for Efficient and Stable n-i-p Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2021 , 11, 2100967	21.8	11
15	Confined growth of silver-copper Janus nanostructures with {100} facets for highly selective tandem electrocatalytic carbon dioxide reduction.. <i>Advanced Materials</i> , 2022 , e2110607	24	10
14	Polymer-mediated growth of fluorescent semiconductor nanoparticles in preformed nanocomposites. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 11843-9	3.6	9
13	Substrate-bound growth of Au-Pd diblock nanowire and hybrid nanorod-plate. <i>Nanoscale</i> , 2015 , 7, 8115-21	7.7	8
12	Quasi-Epitaxial Growth of Magnetic Nanostructures on 4H-Au Nanoribbons. <i>Advanced Materials</i> , 2021 , 33, e2007140	24	8
11	Decreasing the Overpotential of Aprotic Li-CO ₂ Batteries with the In-Plane Alloy Structure in Ultrathin 2D Ru-Based Nanosheets. <i>Advanced Functional Materials</i> , 2022 , 7, 2202737	15.6	8
10	Surface Molecular Functionalization of Unusual Phase Metal Nanomaterials for Highly Efficient Electrochemical Carbon Dioxide Reduction under Industry-Relevant Current Density.. <i>Small</i> , 2022 , e2106766	11	7
9	Transient Solid-State Laser Activation of Indium for High-Performance Reduction of CO to Formate.. <i>Small</i> , 2022 , e2201311	11	5
8	Spirals and helices by asymmetric active surface growth. <i>Nanoscale</i> , 2017 , 9, 18352-18358	7.7	4
7	Gold-based nanoalloys: synthetic methods and catalytic applications. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 19025-19053	13	3
6	Electrochemical lithium extraction from aqueous sources. <i>Matter</i> , 2022 , 5, 1760-1791	12.7	3
5	Nanosheet Sensors: Recent Advances in Sensing Applications of Two-Dimensional Transition Metal Dichalcogenide Nanosheets and Their Composites (Adv. Funct. Mater. 19/2017). <i>Advanced Functional Materials</i> , 2017 , 27,	15.6	2

4	General Synthesis of Ordered Mesoporous Carbonaceous Hybrid Nanostructures with Molecularly Dispersed Polyoxometallates. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 15556-15562	16.4	2
3	Key factors affecting Rayleigh instability of ultrathin 4H hexagonal gold nanoribbons. <i>Nanoscale Advances</i> , 2020 , 2, 3027-3032	5.1	1
2	2D Materials for electrochemical carbon dioxide reduction 2021 , 183-196		0
1	General Synthesis of Ordered Mesoporous Carbonaceous Hybrid Nanostructures with Molecularly Dispersed Polyoxometallates. <i>Angewandte Chemie</i> , 2021 , 133, 15684-15690	3.6	