Zhanxi Fan

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/8681155/zhanxi-fan-publications-by-year.pdf

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

93	12,225	50	103
papers	citations	h-index	g-index
103 ext. papers	13,886 ext. citations	16.2 avg, IF	6.48 L-index

#	Paper	IF	Citations
93	Surface Molecular Functionalization of Unusual Phase Metal Nanomaterials for Highly Efficient Electrochemical Carbon Dioxide Reduction under Industry-Relevant Current Density <i>Small</i> , 2022 , e210	06766	7
92	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
91	Transient Solid-State Laser Activation of Indium for High-Performance Reduction of CO to Formate <i>Small</i> , 2022 , e2201311	11	5
90	Electrochemical lithium extraction from aqueous sources. <i>Matter</i> , 2022 , 5, 1760-1791	12.7	3
89	Recent Progress on Two-Dimensional Materials. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2021 , 2108017-0	3.8	69
88	Synthesis of Pd Sn and PdCuSn Nanorods with L1 Phase for Highly Efficient Electrocatalytic Ethanol Oxidation. <i>Advanced Materials</i> , 2021 , e2106115	24	17
87	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
86	Surface modification of metal materials for high-performance electrocatalytic carbon dioxide reduction. <i>Matter</i> , 2021 , 4, 888-926	12.7	21
85	Tandem catalysis in electrochemical CO2 reduction reaction. <i>Nano Research</i> , 2021 , 14, 4471	10	26
84	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
83	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
82	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
81	General Synthesis of Ordered Mesoporous Carbonaceous Hybrid Nanostructures with Molecularly Dispersed Polyoxometallates. <i>Angewandte Chemie</i> , 2021 , 133, 15684-15690	3.6	
80	Quasi-Epitaxial Growth of Magnetic Nanostructures on 4H-Au Nanoribbons. <i>Advanced Materials</i> , 2021 , 33, e2007140	24	8
79	Recent Advances in the Controlled Synthesis and Catalytic Applications of Two-Dimensional Rhodium Nanomaterials 2021 , 3, 121-133		12
78	Gold-based nanoalloys: synthetic methods and catalytic applications. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 19025-19053	13	3
77	2D Materials for electrochemical carbon dioxide reduction 2021 , 183-196		O

(2017-2021)

76	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
75	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
74	Key factors affecting Rayleigh instability of ultrathin 4H hexagonal gold nanoribbons. <i>Nanoscale Advances</i> , 2020 , 2, 3027-3032	5.1	1
73	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
72	Phase engineering of nanomaterials. <i>Nature Reviews Chemistry</i> , 2020 , 4, 243-256	34.6	198
71	Heterophase fcc-2H-fcc gold nanorods. <i>Nature Communications</i> , 2020 , 11, 3293	17.4	41
70	Thermal Effect and Rayleigh Instability of Ultrathin 4H Hexagonal Gold Nanoribbons. <i>Matter</i> , 2020 , 2, 658-665	12.7	14
69	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
68	Undercoordinated Active Sites on 4H Gold Nanostructures for CO Reduction. <i>Nano Letters</i> , 2020 , 20, 8074-8080	11.5	21
67	Crystal Phase Control of Gold Nanomaterials by Wet-Chemical Synthesis. <i>Accounts of Chemical Research</i> , 2020 , 53, 2106-2118	24.3	34
66	Phase Engineering of Nanomaterials for Clean Energy and Catalytic Applications. <i>Advanced Energy Materials</i> , 2020 , 10, 2002019	21.8	39
65	Unusual 4H-phase twinned noble metal nanokites. <i>Nature Communications</i> , 2019 , 10, 2881	17.4	15
64	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
63	Two-Dimensional Metal Nanomaterials: Synthesis, Properties, and Applications. <i>Chemical Reviews</i> , 2018 , 118, 6409-6455	68.1	467
62	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
61	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
60	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
59	Graphene Oxide Scroll Meshes Prepared by Molecular Combing for Transparent and Flexible Electrodes. <i>Advanced Materials Technologies</i> , 2017 , 2, 1600231	6.8	11

58	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
57	Spirals and helices by asymmetric active surface growth. <i>Nanoscale</i> , 2017 , 9, 18352-18358	7.7	4
56	Facile synthesis of gold nanomaterials with unusual crystal structures. <i>Nature Protocols</i> , 2017 , 12, 2367	-2:33788	56
55	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
54	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
53	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
52	Submonolayered Ru Deposited on Ultrathin Pd Nanosheets used for Enhanced Catalytic Applications. <i>Advanced Materials</i> , 2016 , 28, 10282-10286	24	117
51	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
50	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
49	Crystal phase-controlled synthesis, properties and applications of noble metal nanomaterials. <i>Chemical Society Reviews</i> , 2016 , 45, 63-82	58.5	268
48	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
47	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
46	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
45	AuAg nanosheets assembled from ultrathin AuAg nanowires. <i>Journal of the American Chemical Society</i> , 2015 , 137, 1444-7	16.4	61
44	Substrate-bound growth of Au-Pd diblock nanowire and hybrid nanorod-plate. <i>Nanoscale</i> , 2015 , 7, 8115	5-72.17	8
43	Stabilization of 4H hexagonal phase in gold nanoribbons. <i>Nature Communications</i> , 2015 , 6, 7684	17.4	165
42	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
41	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

40	Synthesis of Ultrathin Face-Centered-Cubic Au@Pt and Au@Pd CoreBhell Nanoplates from Hexagonal-Close-Packed Au Square Sheets. <i>Angewandte Chemie</i> , 2015 , 127, 5764-5768	3.6	26
39	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
38	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
37	Surface modification-induced phase transformation of hexagonal close-packed gold square sheets. <i>Nature Communications</i> , 2015 , 6, 6571	17.4	157
36	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
35	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
34	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
33	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
32	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
31	Novel Metal@Carbon Spheres CoreBhell Arrays by Controlled Self-Assembly of Carbon Nanospheres: A Stable and Flexible Supercapacitor Electrode. <i>Advanced Energy Materials</i> , 2015 , 5, 1401	709 ⁸	129
30	VO2 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
29	Thin metal nanostructures: synthesis, properties and applications. <i>Chemical Science</i> , 2015 , 6, 95-111	9.4	169
28	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
27	Reduced graphene oxide-wrapped MoO3 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
26	Enhanced Lithium Storage Performance of CuO Nanowires by Coating of Graphene Quantum Dots. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1400499	4.6	80
25	TiO2 nanotube @ SnO2 nanoflake coreBranch arrays for lithium-ion battery anode. <i>Nano Energy</i> , 2014 , 4, 105-112	17.1	151
24	Chemically engineered graphene oxide as high performance cathode materials for Li-ion batteries. <i>Carbon</i> , 2014 , 76, 148-154	10.4	67
23	Highly stable and reversible lithium storage in SnO2 nanowires surface coated with a uniform hollow shell by atomic layer deposition. <i>Nano Letters</i> , 2014 , 14, 4852-8	11.5	242

22	Triangular Ag-Pd alloy nanoprisms: rational synthesis with high-efficiency for electrocatalytic oxygen reduction. <i>Nanoscale</i> , 2014 , 6, 11738-43	7.7	35
21	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
20	Coating two-dimensional nanomaterials with metal-organic frameworks. ACS Nano, 2014, 8, 8695-701	16.7	141
19	3D carbon/cobalt-nickel mixed-oxide hybrid nanostructured arrays for asymmetric supercapacitors. <i>Small</i> , 2014 , 10, 2937-45	11	126
18	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
17	A universal method for preparation of noble metal nanoparticle-decorated transition metal dichalcogenide nanobelts. <i>Advanced Materials</i> , 2014 , 26, 6250-4	24	58
16	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
15	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
14	A V2O5/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
13	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
12	Periodic AuAg-AgB heterostructured nanowires. <i>Small</i> , 2014 , 10, 479-82	11	17
11	Synthesis of few-layer MoS2 nanosheet-coated TiO2 nanobelt heterostructures for enhanced photocatalytic activities. <i>Small</i> , 2013 , 9, 140-7	11	1059
10	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
9	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
8	Graphene-based electrodes. Advanced Materials, 2012, 24, 5979-6004	24	756
7	An Effective Method for the Fabrication of Few-Layer-Thick Inorganic Nanosheets. <i>Angewandte Chemie</i> , 2012 , 124, 9186-9190	3.6	31
6	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
5	Efficient polymer/nanocrystal hybrid solar cells fabricated from aqueous materials. <i>Energy and Environmental Science</i> , 2011 , 4, 2831	35.4	55

LIST OF PUBLICATIONS

4	Aqueous-solution-processed hybrid solar cells from poly(1,4-naphthalenevinylene) and CdTe nanocrystals. <i>ACS Applied Materials & amp; Interfaces</i> , 2011 , 3, 2919-23	9.5	31
3	Polymer-mediated growth of fluorescent semiconductor nanoparticles in preformed nanocomposites. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 11843-9	3.6	9
2	Facile approach in fabricating superhydrophobic and superoleophilic surface for water and oil mixture separation. <i>ACS Applied Materials & amp; Interfaces</i> , 2009 , 1, 2613-7	9.5	316
1	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> ,2202737	15.6	8