

Pengfei An

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1067836/publications.pdf>

Version: 2024-02-01

72
papers

8,651
citations

126907

33
h-index

91884

69
g-index

74
all docs

74
docs citations

74
times ranked

10923
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrathin metal-organic framework nanosheets for electrocatalytic oxygen evolution. <i>Nature Energy</i> , 2016, 1, .	39.5	1,979
2	General synthesis and definitive structural identification of Mn ₄ C ₄ single-atom catalysts with tunable electrocatalytic activities. <i>Nature Catalysis</i> , 2018, 1, 63-72.	34.4	1,476
3	Structural transformation of highly active metal-organic framework electrocatalysts during the oxygen evolution reaction. <i>Nature Energy</i> , 2020, 5, 881-890.	39.5	647
4	Efficient Visible-Light-Driven Carbon Dioxide Reduction by a Single-Atom Implanted Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14310-14314.	13.8	612
5	Dynamic traction of lattice-confined platinum atoms into mesoporous carbon matrix for hydrogen evolution reaction. <i>Science Advances</i> , 2018, 4, eaao6657.	10.3	460
6	Single atom tungsten doped ultrathin Ni(OH) ₂ for enhanced electrocatalytic water oxidation. <i>Nature Communications</i> , 2019, 10, 2149.	12.8	363
7	Atypical Oxygen-Bearing Copper Boosts Ethylene Selectivity toward Electrocatalytic CO ₂ Reduction. <i>Journal of the American Chemical Society</i> , 2020, 142, 11417-11427.	13.7	250
8	Structurally Well-Defined Au@Cu ₂ S Core-Shell Nanocrystals for Improved Cancer Treatment Based on Enhanced Photothermal Efficiency. <i>Advanced Materials</i> , 2016, 28, 3094-3101.	21.0	228
9	Design of ultrathin Pt-Mo-Ni nanowire catalysts for ethanol electrooxidation. <i>Science Advances</i> , 2017, 3, e1603068.	10.3	224
10	Ni ^{II} Coordination to an Al-Based Metal-Organic Framework Made from 2-Aminoterephthalate for Photocatalytic Overall Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3036-3040.	13.8	175
11	Efficient Visible-Light-Driven Carbon Dioxide Reduction by a Single-Atom Implanted Metal-Organic Framework. <i>Angewandte Chemie</i> , 2016, 128, 14522-14526.	2.0	174
12	Reordering d Orbital Energies of Single-Site Catalysts for CO ₂ Electroreduction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12711-12716.	13.8	166
13	Unraveling the Interfacial Charge Migration Pathway at the Atomic Level in a Highly Efficient Z-Scheme Photocatalyst. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11329-11334.	13.8	152
14	Colloidal Synthesis of Ultrathin Monoclinic BiVO ₄ Nanosheets for Z-Scheme Overall Water Splitting under Visible Light. <i>ACS Catalysis</i> , 2018, 8, 8649-8658.	11.2	151
15	N-doped Ni-Mo based sulfides for high-efficiency and stable hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2020, 276, 119137.	20.2	150
16	The Flexibility of an Amorphous Cobalt Hydroxide Nanomaterial Promotes the Electrocatalysis of Oxygen Evolution Reaction. <i>Small</i> , 2018, 14, e1703514.	10.0	121
17	Delocalized electron effect on single metal sites in ultrathin conjugated microporous polymer nanosheets for boosting CO ₂ cycloaddition. <i>Science Advances</i> , 2020, 6, eaaz4824.	10.3	68
18	Interface engineered <i>in situ</i> anchoring of Co ₉ S ₈ nanoparticles into a multiple doped carbon matrix: highly efficient zinc-air batteries. <i>Nanoscale</i> , 2018, 10, 2649-2657.	5.6	66

#	ARTICLE	IF	CITATIONS
19	Fe ^o Clusters Anchored on Nodes of Metal-Organic Frameworks for Direct Methane Oxidation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5811-5815.	13.8	66
20	Directed Biofabrication of Nanoparticles through Regulating Extracellular Electron Transfer. <i>Journal of the American Chemical Society</i> , 2017, 139, 12149-12152.	13.7	64
21	Controlled chelation between tannic acid and Fe precursors to obtain N, S co-doped carbon with high density Fe-single atom-nanoclusters for highly efficient oxygen reduction reaction in Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17136-17149.	10.3	64
22	Dynamic Restructuring of Coordinatively Unsaturated Copper Paddle Wheel Clusters to Boost Electrochemical CO ₂ Reduction to Hydrocarbons**. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	61
23	Selective hydrogenation of unsaturated aldehydes over Pt nanoparticles promoted by the cooperation of steric and electronic effects. <i>Chemical Communications</i> , 2018, 54, 908-911.	4.1	55
24	Manganese deception on graphene and implications in catalysis. <i>Carbon</i> , 2018, 132, 623-631.	10.3	54
25	Breaking Platinum Nanoparticles to Single-Atomic Pt ₄ Co-catalysts for Enhanced Solar-driven Hydrogen Conversion. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2541-2547.	13.8	51
26	Covalently anchoring cobalt phthalocyanine on zeolitic imidazolate frameworks for efficient carbon dioxide electroreduction. <i>CrystEngComm</i> , 2020, 22, 1619-1624.	2.6	48
27	Toward a Unified Identification of Ti Location in the MFI Framework of High-Ti-Loaded TS-1: Combined EXAFS, XANES, and DFT Study. <i>Journal of Physical Chemistry C</i> , 2016, 120, 20114-20124.	3.1	45
28	Enhanced CO ₂ electroreduction <i>via</i> interaction of dangling S bonds and Co sites in cobalt phthalocyanine/ZnIn ₂ S ₄ hybrids. <i>Chemical Science</i> , 2019, 10, 1659-1663.	7.4	45
29	Mechanisms on the morphology variation of hematite crystals by Al substitution: The modification of Fe and O reticular densities. <i>Scientific Reports</i> , 2016, 6, 35960.	3.3	43
30	Reordering d Orbital Energies of Single-Site Catalysts for CO ₂ Electroreduction. <i>Angewandte Chemie</i> , 2019, 131, 12841-12846.	2.0	40
31	Atomically defined Co on two-dimensional TiO ₂ nanosheet for photocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , 2021, 420, 127681.	12.7	40
32	Fe-Ni Alloy Nanoclusters Anchored on Carbon Aerogels as High-Efficiency Oxygen Electrocatalysts in Rechargeable Zn-Air Batteries. <i>Small</i> , 2021, 17, e2102002.	10.0	38
33	Ni ^{II} Coordination to an Al-Based Metal-Organic Framework Made from 2-Aminoterephthalate for Photocatalytic Overall Water Splitting. <i>Angewandte Chemie</i> , 2017, 129, 3082-3086.	2.0	37
34	Dynamic evolution of isolated Ru-FeP atomic interface sites for promoting the electrochemical hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22607-22612.	10.3	36
35	Hydrogen production via steam reforming of n-dodecane over NiPt alloy catalysts. <i>Fuel</i> , 2020, 262, 116469.	6.4	31
36	Synthesis of birnessite with adjustable electron spin magnetic moments for the degradation of tetracycline under microwave induction. <i>Chemical Engineering Journal</i> , 2017, 326, 329-338.	12.7	28

#	ARTICLE	IF	CITATIONS
37	Fe ultra-small particles anchored on carbon aerogels to enhance the oxygen reduction reaction in Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6861-6871.	10.3	28
38	Single-Atom Doping and High-Valence State for Synergistic Enhancement of NiO Electrocatalytic Water Oxidation. <i>Small</i> , 2021, 17, e2102448.	10.0	28
39	Evidence of an interlayer charge transfer route in BiCu _{1-x} SeO. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12154.	10.3	27
40	Polymer precursor synthesis of TaC-SiC ultrahigh temperature ceramic nanocomposites. <i>RSC Advances</i> , 2016, 6, 88770-88776.	3.6	25
41	Hydroformylation of olefins catalyzed by single-atom Co(II) sites in zirconium phosphate. <i>Journal of Catalysis</i> , 2022, 408, 245-260.	6.2	23
42	Unraveling the Interfacial Charge Migration Pathway at the Atomic Level in a Highly Efficient Zr-Scheme Photocatalyst. <i>Angewandte Chemie</i> , 2019, 131, 11451-11456.	2.0	22
43	Acid-stimulated bioassembly of high-performance quantum dots in <i>Escherichia coli</i> . <i>Journal of Materials Chemistry A</i> , 2019, 7, 18480-18487.	10.3	16
44	Direct Transformation of Glycerol to Propanal using Zirconium Phosphate-Supported Bimetallic Catalysts. <i>ChemSusChem</i> , 2020, 13, 4954-4966.	6.8	15
45	Sulfur-Tolerant Ni ₂ O ₃ Catalyst for Steam Reforming of Jet Fuel Model Compound n-Dodecane. <i>Energy & Fuels</i> , 2020, 34, 7430-7438.	5.1	13
46	Bi-centric view of the isostructural phase transitions in Bi ₂ Se ₃ and Bi ₂ Te ₃ . <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1700007.	1.5	11
47	Confocal depth-resolved fluorescence micro-X-ray absorption spectroscopy for the study of cultural heritage materials: a new mobile endstation at the Beijing Synchrotron Radiation Facility. <i>Journal of Synchrotron Radiation</i> , 2017, 24, 1000-1005.	2.4	11
48	Temperature-Dependent Structural Evolution in Au ₄₄ Ga ₅₆ Liquid Eutectic Alloy. <i>Journal of Physical Chemistry C</i> , 2019, 123, 25209-25219.	3.1	10
49	A facile heating cell for <i>in situ</i> transmittance and fluorescence X-ray absorption spectroscopy investigations. <i>Journal of Synchrotron Radiation</i> , 2014, 21, 165-169.	2.4	8
50	Revisiting local structural changes in GeO ₂ glass at high pressure. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 465401.	1.8	8
51	Time-resolved XAFS measurement using quick-scanning techniques at BSRF. <i>Journal of Synchrotron Radiation</i> , 2017, 24, 674-678.	2.4	8
52	Structural changes in hexagonal WO ₃ under high pressure. <i>Journal of Alloys and Compounds</i> , 2019, 797, 1013-1017.	5.5	8
53	Breaking Platinum Nanoparticles to Single-Atomic Pt ₄ Co-catalysts for Enhanced Solar-to-Hydrogen Conversion. <i>Angewandte Chemie</i> , 2021, 133, 2571-2577.	2.0	8
54	Dynamic Restructuring of Coordinatively Unsaturated Copper Paddle Wheel Clusters to Boost Electrochemical CO ₂ Reduction to Hydrocarbons**. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	8

#	ARTICLE	IF	CITATIONS
55	Optimal azimuthal orientation for Si(111) double-crystal monochromators to achieve the least amount of glitches in the hard X-ray region. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 1147-1150.	2.4	7
56	Local structural changes during the disordered substitutional alloy transition in Bi ₂ Te ₃ by high-pressure XAFS. <i>Journal of Applied Physics</i> , 2018, 124, 065901.	2.5	7
57	Local insight into the La-induced structural phase transition in multiferroic BiFeO ₃ ceramics by x-ray absorption fine structure spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 085402.	1.8	7
58	A Cationic Ru(II) Complex Intercalated into Zirconium Phosphate Layers Catalyzes Selective Hydrogenation via Heterolytic Hydrogen Activation. <i>ChemCatChem</i> , 2021, 13, 3801-3814.	3.7	7
59	Metal Ionic Liquids Produce Metal-Dispersed Carbon-Nitrogen Networks for Efficient CO ₂ Electroreduction. <i>ChemCatChem</i> , 2019, 11, 3166-3170.	3.7	6
60	Solvent coordination engineering for high-quality hybrid organic-inorganic perovskite films. <i>Journal of Materials Science</i> , 2021, 56, 9903-9913.	3.7	6
61	Superconductivity Enhancement in Fe ₃ O ₄ Doped YBa ₂ Cu ₃ O _{7-δ} . <i>Journal of Superconductivity and Novel Magnetism</i> , 2014, 27, 693-699.	1.8	5
62	Structural phase transitions in ionic conductor Bi ₂ O ₃ by temperature dependent XPD and XAS. <i>Journal of Physics: Conference Series</i> , 2016, 712, 012132.	0.4	5
63	Unraveling the Low-Temperature Redox Behavior of Ultrathin Ceria Nanosheets with Exposed {110} Facets by in Situ XAFS/DRIFTS Utilizing CO as Molecule Probe. <i>Journal of Physical Chemistry C</i> , 2019, 123, 322-333.	3.1	4
64	Surface Ligand Tuning of Coordination Geometry and Pb 6s ² Electronic Pair Stereochemical Activity in MAPbBr ₃ Perovskite Nanoparticles: A Joint Experimental and Theoretical Insight. <i>Journal of Physical Chemistry C</i> , 2022, 126, 7500-7509.	3.1	4
65	Fe μ O Clusters Anchored on Nodes of Metal-Organic Frameworks for Direct Methane Oxidation. <i>Angewandte Chemie</i> , 2021, 133, 5875-5879.	2.0	3
66	Anharmonicity and local lattice distortion in strained Ge-dilute Si _{1-x} Ge alloy. <i>Journal of Alloys and Compounds</i> , 2015, 653, 117-121.	5.5	2
67	A method to stabilize the incident X-ray energy for anomalous diffraction measurements. <i>Journal of Synchrotron Radiation</i> , 2017, 24, 781-786.	2.4	1
68	Swallow-Inspired Strategy towards Ultralight Functional Multiwall-Carbon-Nanotube-Based Aerogels for Supercapacitors. <i>ChemElectroChem</i> , 2019, 6, 1661-1667.	3.4	1
69	In situ depth-resolved synchrotron radiation X-ray spectroscopy study of radiation-induced Au deposition. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1940-1944.	2.4	1
70	Bi-centric view of the isostructural phase transitions in Bi ₂ Se ₃ and Bi ₂ Te ₃ (Phys. Status Solidi B 7/2017). <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1770238.	1.5	0
71	Extracting structural information of higher coordination shells by analyzing EXAFS derivative spectrum. <i>Physica Scripta</i> , 2018, 93, 125701.	2.5	0
72	A new mobile grazing-incidence X-ray absorption fine spectroscopy endstation at Beijing Synchrotron Radiation Facility. <i>Radiation Detection Technology and Methods</i> , 0, , .	0.8	0