

# Pengfei An

## List of Publications by Year in Descending Order

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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.

69

papers

5,575

citations

26

h-index

74

g-index

74

ext. papers

7,143

ext. citations

9.9

avg, IF

5.63

L-index

#	Paper	IF	Citations
69	Hydroformylation of olefins catalyzed by single-atom Co(II) sites in zirconium phosphate. <i>Journal of Catalysis</i> , <b>2022</b> , 408, 245-260	7.3	3
68	Dynamic Restructuring of Coordinatively Unsaturated Copper Paddle Wheel Clusters to Boost Electrochemical CO Reduction to Hydrocarbons*. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> ,	16.4	6
67	Solvent coordination engineering for high-quality hybrid organic-inorganic perovskite films. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 9903-9913	4.3	1
66	Single-Atom Doping and High-Valence State for Synergistic Enhancement of NiO Electrocatalytic Water Oxidation. <i>Small</i> , <b>2021</b> , 17, e2102448	11	7
65	Fe-O Clusters Anchored on Nodes of Metal-Organic Frameworks for Direct Methane Oxidation. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 5811-5815	16.4	21
64	Breaking Platinum Nanoparticles to Single-Atomic Pt-C Co-catalysts for Enhanced Solar-to-Hydrogen Conversion. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 2541-2547	16.4	22
63	Atomically defined Co on two-dimensional TiO <sub>2</sub> nanosheet for photocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , <b>2021</b> , 420, 127681	14.7	20
62	Fe-O Clusters Anchored on Nodes of Metal-Organic Frameworks for Direct Methane Oxidation. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 5875-5879	3.6	0
61	Breaking Platinum Nanoparticles to Single-Atomic Pt-C <sub>4</sub> Co-catalysts for Enhanced Solar-to-Hydrogen Conversion. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 2571-2577	3.6	3
60	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> , <b>2021</b> , 9, 6861-6871	13	10
59	Fe-Ni Alloy Nanoclusters Anchored on Carbon Aerogels as High-Efficiency Oxygen Electrocatalysts in Rechargeable Zn-Air Batteries. <i>Small</i> , <b>2021</b> , 17, e2102002	11	7
58	A Cationic Ru(II) Complex Intercalated into Zirconium Phosphate Layers Catalyzes Selective Hydrogenation via Heterolytic Hydrogen Activation. <i>ChemCatChem</i> , <b>2021</b> , 13, 3801-3814	5.2	2
57	N-doped Ni-Mo based sulfides for high-efficiency and stable hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 276, 119137	21.8	77
56	Atypical Oxygen-Bearing Copper Boosts Ethylene Selectivity toward Electrocatalytic CO Reduction. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 11417-11427	16.4	99
55	Delocalized electron effect on single metal sites in ultrathin conjugated microporous polymer nanosheets for boosting CO cycloaddition. <i>Science Advances</i> , <b>2020</b> , 6, eaaz4824	14.3	38
54	Sulfur-Tolerant NiPt/Al <sub>2</sub> O <sub>3</sub> Catalyst for Steam Reforming of Jet Fuel Model Compound n-Dodecane. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 7430-7438	4.1	6
53	Hydrogen production via steam reforming of n-dodecane over NiPt alloy catalysts. <i>Fuel</i> , <b>2020</b> , 262, 116469	4.1	18

52	Covalently anchoring cobalt phthalocyanine on zeolitic imidazolate frameworks for efficient carbon dioxide electroreduction. <i>CrystEngComm</i> , <b>2020</b> , 22, 1619-1624	3.3	34
51	Dynamic evolution of isolated Ru/FeP atomic interface sites for promoting the electrochemical hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 22607-22612	13	16
50	Direct Transformation of Glycerol to Propanal using Zirconium Phosphate-Supported Bimetallic Catalysts. <i>ChemSusChem</i> , <b>2020</b> , 13, 4954-4966	8.3	6
49	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> , <b>2020</b> , 8, 17136-17149	13	23
48	Structural transformation of highly active metal-organic framework electrocatalysts during the oxygen evolution reaction. <i>Nature Energy</i> , <b>2020</b> , 5, 881-890	62.3	280
47	Temperature-Dependent Structural Evolution in Au <sub>44</sub> Ga <sub>56</sub> Liquid Eutectic Alloy. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 25209-25219	3.8	6
46	Enhanced CO electroreduction interaction of dangling S bonds and Co sites in cobalt phthalocyanine/ZnInS hybrids. <i>Chemical Science</i> , <b>2019</b> , 10, 1659-1663	9.4	31
45	Unraveling the Interfacial Charge Migration Pathway at the Atomic Level in a Highly Efficient Z-Scheme Photocatalyst. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 11451	3.6	
44	Metal Ionic Liquids Produce Metal-Dispersed Carbon-Nitrogen Networks for Efficient CO <sub>2</sub> Electroreduction. <i>ChemCatChem</i> , <b>2019</b> , 11, 3166-3170	5.2	3
43	Unraveling the Interfacial Charge Migration Pathway at the Atomic Level in a Highly Efficient Z-Scheme Photocatalyst. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 11329-11334	16.4	79
42	Structural changes in hexagonal WO <sub>3</sub> under high pressure. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 797, 1013-1017	5.7	4
41	Single atom tungsten doped ultrathin Ni(OH) <sub>2</sub> for enhanced electrocatalytic water oxidation. <i>Nature Communications</i> , <b>2019</b> , 10, 2149	17.4	210
40	Acid-stimulated bioassembly of high-performance quantum dots in Escherichia coli. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 18480-18487	13	11
39	Reordering d Orbital Energies of Single-Site Catalysts for CO <sub>2</sub> Electroreduction. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 12841-12846	3.6	30
38	Reordering d Orbital Energies of Single-Site Catalysts for CO Electroreduction. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 12711-12716	16.4	100
37	In situ depth-resolved synchrotron radiation X-ray spectroscopy study of radiation-induced Au deposition. <i>Journal of Synchrotron Radiation</i> , <b>2019</b> , 26, 1940-1944	2.4	1
36	Swallow-Nest-Inspired Strategy towards Ultralight Functional Multiwall-Carbon-Nanotube-Based Aerogels for Supercapacitors. <i>ChemElectroChem</i> , <b>2019</b> , 6, 1661-1667	4.3	
35	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> , <b>2019</b> , 123, 322-333	3.8	3

34	Local insight into the La-induced structural phase transition in multiferroic BiFeO ceramics by x-ray absorption fine structure spectroscopy. <i>Journal of Physics Condensed Matter</i> , <b>2019</b> , 31, 085402	1.8	5
33	Manganese deception on graphene and implications in catalysis. <i>Carbon</i> , <b>2018</b> , 132, 623-631	10.4	48
32	Dynamic traction of lattice-confined platinum atoms into mesoporous carbon matrix for hydrogen evolution reaction. <i>Science Advances</i> , <b>2018</b> , 4, eaao6657	14.3	344
31	Interface engineered in situ anchoring of CoS nanoparticles into a multiple doped carbon matrix: highly efficient zinc-air batteries. <i>Nanoscale</i> , <b>2018</b> , 10, 2649-2657	7.7	53
30	General synthesis and definitive structural identification of MN4C4 single-atom catalysts with tunable electrocatalytic activities. <i>Nature Catalysis</i> , <b>2018</b> , 1, 63-72	36.5	968
29	Selective hydrogenation of unsaturated aldehydes over Pt nanoparticles promoted by the cooperation of steric and electronic effects. <i>Chemical Communications</i> , <b>2018</b> , 54, 908-911	5.8	38
28	The Flexibility of an Amorphous Cobalt Hydroxide Nanomaterial Promotes the Electrocatalysis of Oxygen Evolution Reaction. <i>Small</i> , <b>2018</b> , 14, e1703514	11	85
27	Local structural changes during the disordered substitutional alloy transition in Bi2Te3 by high-pressure XAFS. <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 065901	2.5	6
26	Colloidal Synthesis of Ultrathin Monoclinic BiVO4 Nanosheets for Z-Scheme Overall Water Splitting under Visible Light. <i>ACS Catalysis</i> , <b>2018</b> , 8, 8649-8658	13.1	105
25	Extracting structural information of higher coordination shells by analyzing EXAFS derivative spectrum. <i>Physica Scripta</i> , <b>2018</b> , 93, 125701	2.6	
24	NiII Coordination to an Al-Based Metal-Organic Framework Made from 2-Aminoterephthalate for Photocatalytic Overall Water Splitting. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 3082-3086	3.6	29
23	Ni Coordination to an Al-Based Metal-Organic Framework Made from 2-Aminoterephthalate for Photocatalytic Overall Water Splitting. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 3036-3040	16.4	128
22	Synthesis of birnessite with adjustable electron spin magnetic moments for the degradation of tetracycline under microwave induction. <i>Chemical Engineering Journal</i> , <b>2017</b> , 326, 329-338	14.7	21
21	Bi-centric view of the isostructural phase transitions in Bi2Se3 and Bi2Te3. <i>Physica Status Solidi (B): Basic Research</i> , <b>2017</b> , 254, 1700007	1.3	8
20	A method to stabilize the incident X-ray energy for anomalous diffraction measurements. <i>Journal of Synchrotron Radiation</i> , <b>2017</b> , 24, 781-786	2.4	0
19	Directed Biofabrication of Nanoparticles through Regulating Extracellular Electron Transfer. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 12149-12152	16.4	42
18	Design of ultrathin Pt-Mo-Ni nanowire catalysts for ethanol electrooxidation. <i>Science Advances</i> , <b>2017</b> , 3, e1603068	14.3	181
17	Revisiting local structural changes in GeO glass at high pressure. <i>Journal of Physics Condensed Matter</i> , <b>2017</b> , 29, 465401	1.8	4

16	Bi-centric view of the isostructural phase transitions in $\text{Bi}_2\text{Se}_3$ and $\text{Bi}_2\text{Te}_3$ (Phys. Status Solidi B 7/2017). <i>Physica Status Solidi (B): Basic Research</i> , <b>2017</b> , 254, 1770238	1.3	
15	Time-resolved XAFS measurement using quick-scanning techniques at BSRF. <i>Journal of Synchrotron Radiation</i> , <b>2017</b> , 24, 674-678	2.4	5
14	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> , <b>2017</b> , 24, 1000-1005	2.4	11
13	Ultrathin metal-organic framework nanosheets for electrocatalytic oxygen evolution. <i>Nature Energy</i> , <b>2016</b> , 1,	62.3	1444
12	Polymer precursor synthesis of Ta-Cu ultrahigh temperature ceramic nanocomposites. <i>RSC Advances</i> , <b>2016</b> , 6, 88770-88776	3.7	21
11	Efficient Visible-Light-Driven Carbon Dioxide Reduction by a Single-Atom Implanted Metal-Organic Framework. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 14522-14526	3.6	124
10	Mechanisms on the morphology variation of hematite crystals by Al substitution: The modification of Fe and O reticular densities. <i>Scientific Reports</i> , <b>2016</b> , 6, 35960	4.9	27
9	Structural phase transitions in ionic conductor $\text{Bi}_2\text{O}_3$ by temperature dependent XPD and XAS. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 712, 012132	0.3	3
8	Structurally Well-Defined Au@Cu <sub>2-x</sub> S Core-Shell Nanocrystals for Improved Cancer Treatment Based on Enhanced Photothermal Efficiency. <i>Advanced Materials</i> , <b>2016</b> , 28, 3094-101	24	178
7	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> , <b>2016</b> , 120, 20114-20124	3.8	26
6	Efficient Visible-Light-Driven Carbon Dioxide Reduction by a Single-Atom Implanted Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 14310-14314	16.4	450
5	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> , <b>2015</b> , 22, 1147-50	2.4	5
4	Anharmonicity and local lattice distortion in strained Ge-dilute Si <sub>1-x</sub> Ge alloy. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 653, 117-121	5.7	2
3	Superconductivity Enhancement in Fe <sub>3</sub> O <sub>4</sub> Doped YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> . <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2014</b> , 27, 693-699	1.5	4
2	A facile heating cell for in situ transmittance and fluorescence X-ray absorption spectroscopy investigations. <i>Journal of Synchrotron Radiation</i> , <b>2014</b> , 21, 165-9	2.4	7
1	Evidence of an interlayer charge transfer route in BiCu <sub>1-x</sub> SeO. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 12154	13	25