Yang Peng

List of Publications by Year
in descending order

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		53660	58464
103	7,110	45	82
papers	citations	h-index	g-index

105	105	105	7493
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In Situ Constructed Pâ€“N Junction on Cu₂O Nanocubes through Reticular Chemistry for Simultaneously Boosting CO₂ Reduction Depth and Ameliorating Photocorrosion. Advanced Energy and Sustainability Research, 2022, 3, 2100134.	2.8	9
2	Rational design and mass-scale synthesis of guar-derived bifunctional oxygen catalyst for rechargeable Zn-air battery with active sites validation. Chemical Engineering Journal, 2022, 428, 131225.	6.6	12
3	A â€œBlockchainâ€•Synergy in Conductive Polymerâ€Filled Metalâ€“Organic Frameworks for Dendriteâ€Free Li Plating/Stripping with High Coulombic Efficiency. Angewandte Chemie - International Edition, 2022, 61, .	7.2	36
4	A â€œBlockchainâ€•Synergy in Conductive Polymerâ€Filled Metalâ€“Organic Frameworks for Dendriteâ€Free Li Plating/Stripping with High Coulombic Efficiency. Angewandte Chemie, 2022, 134, .	1.6	5
5	Au-activated N motifs in non-coherent cupric porphyrin metal organic frameworks for promoting and stabilizing ethylene production. Nature Communications, 2022, 13, 63.	5.8	64
6	Fast-charging and dendrite-free lithium metal anode enabled by partial lithiation of graphene aerogel. Nano Research, 2022, 15, 9792-9799.	5.8	8
7	Gradientâ€Structuring Manipulation in Ni₃S₂ Layer Boosts Solar Hydrogen Production of Si Photocathode in Alkaline Media. Advanced Energy Materials, 2022, 12, .	10.2	9
8	Combining Multivariate Electrospinning with Surface MOF Functionalization to Construct Tunable Active Sites toward Trifunctional Electrocatalysis. Small, 2022, 18, e2106260.	5.2	18
9	Steering the Pathway of Plasmonâ€Enhanced Photoelectrochemical CO₂ Reduction by Bridging Si and Au Nanoparticles through a TiO₂ Interlayer. Small, 2022, 18, e2201882.	5.2	19
10	Homogenizing Li₂CO₃ Nucleation and Growth through High-Density Single-Atomic Ru Loading toward Reversible Li-CO₂ Reaction. ACS Applied Materials & Interfaces, 2022, 14, 18561-18569.	4.0	17
11	Structural and interfacial engineering of well-defined metal-organic ensembles for electrocatalytic carbon dioxide reduction. Chinese Journal of Catalysis, 2022, 43, 1417-1432.	6.9	11
12	Oxygen-vacancy-rich nickel hydroxide nanosheet: a multifunctional layer between Ir and Si toward enhanced solar hydrogen production in alkaline media. Energy and Environmental Science, 2022, 15, 3051-3061.	15.6	27
13	Cupric porphyrin frameworks on multi-junction silicon photocathodes to expedite the kinetics of CO₂ turnover. Nanoscale, 2022, 14, 8906-8913.	2.8	6
14	A hierarchical Single-Atom Ni-N3-C catalyst for electrochemical CO2 reduction to CO with Near-Unity faradaic efficiency in a broad potential range. Chemical Engineering Journal, 2022, 446, 137296.	6.6	30
15	Design of experiments unravels insights into selective ethylene or methane production on evaporated Cu catalysts. Journal of Energy Chemistry, 2022, 75, 422-429.	7.1	6
16	Photoluminescent WSe2 nanofibers as freestanding cathode for Solar-assisted Li-O2 battery with ultrahigh capacity and transparent casing. Chemical Engineering Journal, 2022, 448, 137591.	6.6	13
17	Polyacrylonitrile-based gel polymer electrolyte filled with Prussian blue forhigh-performance lithium polymer batteries. Chinese Chemical Letters, 2021, 32, 890-894.	4.8	15
18	Breaking the Linear Scaling Relationship by Compositional and Structural Crafting of Ternary Cuâ€“Au/Ag Nanoframes for Electrocatalytic Ethylene Production. Angewandte Chemie - International Edition, 2021, 60, 2508-2518.	7.2	92

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19	Breaking the Linear Scaling Relationship by Compositional and Structural Crafting of Ternary Cuâ€“Au/Ag Nanoframes for Electrocatalytic Ethylene Production. Angewandte Chemie, 2021, 133, 2538-2548.	1.6	15
20	Visible-Light Photocatalytic CO₂ Reduction Using Metal-Organic Framework Derived Ni(OH)₂ Nanocages: A Synergy from Multiple Light Reflection, Static Charge Transfer, and Oxygen Vacancies. ACS Catalysis, 2021, 11, 345-354.	5.5	117
21	Revisiting the Grain and Valence Effect of Oxide-Derived Copper on Electrocatalytic CO₂ Reduction Using Single Crystal Cu(111) Foils. Journal of Physical Chemistry Letters, 2021, 12, 3941-3950.	2.1	16
22	Dissecting the interfaces of MOF-coated CdS on synergized charge transfer for enhanced photocatalytic CO2 reduction. Journal of Catalysis, 2021, 397, 128-136.	3.1	61
23	Crystal Splintering of Î²-MnO₂ Induced by Interstitial Ru Doping Toward Reversible Oxygen Conversion. Chemistry of Materials, 2021, 33, 4135-4145.	3.2	34
24	Robust photocatalytic hydrogen production on metal-organic layers of Al-TCPP with ultrahigh turnover numbers. Chinese Chemical Letters, 2021, 32, 3833-3836.	4.8	17
25	Chemically Exfoliated Semiconducting Bimetallic Porphyrinylphosphonate Metalâ€“Organic Layers for Photocatalytic CO₂ Reduction under Visible Light. ACS Applied Energy Materials, 2021, 4, 4319-4326.	2.5	22
26	Ru-Embedded Highly Porous Carbon Nanocubes Derived from Metalâ€“Organic Frameworks for Catalyzing Reversible Li₂O₂ Formation. ACS Applied Materials & Interfaces, 2021, 13, 28295-28303.	4.0	12
27	Waxâ€Transferred Hydrophobic CVD Graphene Enables Waterâ€Resistant and Dendriteâ€Free Lithium Anode toward Long Cycle Liâ€“Air Battery. Advanced Science, 2021, 8, e2100488.	5.6	28
28	Geometric Modulation of Local CO Flux in Ag@Cu₂O Nanoreactors for Steering the CO₂RR Pathway toward Highâ€Efficacy Methane Production. Advanced Materials, 2021, 33, e2101741.	11.1	116
29	Insulative Ion-Conducting Lithium Selenide as the Artificial Solidâ€“Electrolyte Interface Enabling Heavy-Duty Lithium Metal Operations. Nano Letters, 2021, 21, 7354-7362.	4.5	42
30	Polypyrrole reinforced ZIF-67 with modulated facet exposure and billion-fold electrical conductivity enhancement towards robust photocatalytic CO2 reduction. Journal of Energy Chemistry, 2021, 60, 202-208.	7.1	56
31	Cobalt coordination with pyridines in sulfurized polyacrylonitrile cathodes to form conductive pathways and catalytic M-N4S sites for accelerated Li-S kinetics. Journal of Energy Chemistry, 2021, 61, 170-178.	7.1	28
32	Construction of a ternary Z-scheme In2S3@Au@P3HT photocatalyst for the degradation of phenolic pollutants under visible light. Separation and Purification Technology, 2021, 272, 118787.	3.9	30
33	Entrapping polysulfides via S, N-coordinated supermolecule towards enhanced Li-S kinetics. Chemical Engineering Journal, 2021, 426, 131355.	6.6	6
34	Activating the MoS₂ Basal Plane toward Enhanced Solar Hydrogen Generation via in Situ Photoelectrochemical Control. ACS Energy Letters, 2021, 6, 267-276.	8.8	27
35	Promoting ethylene production over a wide potential window on Cu crystallites induced and stabilized via current shock and charge delocalization. Nature Communications, 2021, 12, 6823.	5.8	61
36	One-dimensional HKUST-1 nanobelts from Cu nanowires. Chinese Chemical Letters, 2020, 31, 517-520.	4.8	6

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37	Electrostatic charge transfer for boosting the photocatalytic CO2 reduction on metal centers of 2D MOF/rGO heterostructure. Applied Catalysis B: Environmental, 2020, 262, 118144.	10.8	175
38	Unpaired 3d Electrons on Atomically Dispersed Cobalt Centres in Coordination Polymers Regulate both Oxygen Reduction Reaction (ORR) Activity and Selectivity for Use in Zincâ€“Air Batteries. Angewandte Chemie - International Edition, 2020, 59, 286-294.	7.2	200
39	Unpaired 3d Electrons on Atomically Dispersed Cobalt Centres in Coordination Polymers Regulate both Oxygen Reduction Reaction (ORR) Activity and Selectivity for Use in Zincâ€“Air Batteries. Angewandte Chemie, 2020, 132, 292-300.	1.6	21
40	Anchoring MOF-derived CoS₂ on sulfurized polyacrylonitrile nanofibers for high areal capacity lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2020, 8, 1298-1306.	5.2	112
41	Highly efficient water splitting driven by zinc-air batteries with a single catalyst incorporating rich active species. Applied Catalysis B: Environmental, 2020, 263, 118139.	10.8	38
42	Selective Photocatalytic Reduction of CO₂ to CH₄ Modulated by Chloride Modification on Bi₂WO₆ Nanosheets. ACS Applied Materials & Interfaces, 2020, 12, 54507-54516.	4.0	62
43	Topotactically Transformed Polygonal Mesopores on Ternary Layered Double Hydroxides Exposing Underâ€Coordinated Metal Centers for Accelerated Water Dissociation. Advanced Materials, 2020, 32, e2006784.	11.1	186
44	Highâ€Performance Liâ€“O₂ Batteries Based on Allâ€Graphene Backbone. Advanced Functional Materials, 2020, 30, 2007218.	7.8	36
45	Elucidation of Active Sites on S, N Codoped Carbon Cubes Embedding Coâ€“Fe Carbides toward Reversible Oxygen Conversion in Highâ€Performance Zincâ€“Air Batteries. Small, 2020, 16, e1907368.	5.2	66
46	Selfâ€Phosphorization of MOFâ€Armored Microbes for Advanced Energy Storage. Small, 2020, 16, e2000755.	5.2	23
47	rGO-CNT aerogel embedding iron phosphide nanocubes for high-performance Li-polysulfide batteries. Carbon, 2020, 167, 446-454.	5.4	21
48	Nitrogen-doped carbon fibers embedding CoO_x nanoframes towards wearable energy storage. Nanoscale, 2020, 12, 8922-8933.	2.8	19
49	Bimetallic Fe-Ni phosphide carved nanoframes toward efficient overall water splitting and potassium-ion storage. Chemical Engineering Journal, 2020, 390, 124515.	6.6	45
50	Redox-Driven Lithium Perfusion to Fabricate Li@Niâ€“Foam Composites for High Lithium-Loading 3D Anodes. ACS Applied Materials & Interfaces, 2020, 12, 9355-9364.	4.0	24
51	Atomic Ir-doped NiCo layered double hydroxide as a bifunctional electrocatalyst for highly efficient and durable water splitting. Journal of Materials Chemistry A, 2020, 8, 9871-9881.	5.2	144
52	Active nickel derived from coordination complex with weak inter/intra-molecular interactions for efficient hydrogen evolution via a tandem mechanism. Journal of Catalysis, 2020, 389, 29-37.	3.1	7
53	Morphological and Electronic Tuning of Ni₂P through Iron Doping toward Highly Efficient Water Splitting. ACS Catalysis, 2019, 9, 8882-8892.	5.5	227
54	Octahedral gold-silver nanoframes with rich crystalline defects for efficient methanol oxidation manifesting a CO-promoting effect. Nature Communications, 2019, 10, 3782.	5.8	113

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55	Alkaliphilic Cu₂O nanowires on copper foam for hosting Li/Na as ultrastable alkali-metal anodes. Journal of Materials Chemistry A, 2019, 7, 20926-20935.	5.2	49
56	Boron-doped InSe monolayer as a promising electrocatalyst for nitrogen reduction into ammonia at ambient conditions. Applied Surface Science, 2019, 495, 143463.	3.1	46
57	Wax-assisted crack-free transfer of monolayer CVD graphene: Extending from standalone to supported copper substrates. Applied Surface Science, 2019, 493, 81-86.	3.1	14
58	Defect Engineering of Palladiumâ€“Tin Nanowires Enables Efficient Electrocatalysts for Fuel Cell Reactions. Nano Letters, 2019, 19, 6894-6903.	4.5	79
59	Carved nanoframes of cobaltâ€“iron bimetal phosphide as a bifunctional electrocatalyst for efficient overall water splitting. Chemical Science, 2019, 10, 464-474.	3.7	238
60	MnIII-enriched Î±-MnO2 nanowires as efficient bifunctional oxygen catalysts for rechargeable Zn-air batteries. Energy Storage Materials, 2019, 23, 252-260.	9.5	80
61	In situ construction of CoSe2@vertical-oriented graphene arrays as self-supporting electrodes for sodium-ion capacitors and electrocatalytic oxygen evolution. Nano Energy, 2019, 60, 385-393.	8.2	93
62	A Doubleâ€Buffering Strategy to Boost the Lithium Storage of Botryoid MnO_x/C Anodes. Small, 2019, 15, e1900015.	5.2	42
63	Mosaic rGO layers on lithium metal anodes for the effective mediation of lithium plating and stripping. Journal of Materials Chemistry A, 2019, 7, 12214-12224.	5.2	44
64	Î³-Fe2O3 nanoparticles embedded in porous carbon fibers as binder-free anodes for high-performance lithium and sodium ion batteries. Journal of Alloys and Compounds, 2019, 777, 127-134.	2.8	52
65	High-performance lithium sulfur batteries enabled by a synergy between sulfur and carbon nanotubes. Energy Storage Materials, 2019, 16, 194-202.	9.5	264
66	Effect of Binder Conformity on the Electrochemical Behavior of Graphite Anodes with Different Particle Shapes. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2019, 35, 1382-1390.	2.2	14
67	Copper-based Conductive Metal Organic Framework <i>In-situ</i> Grown on Copper Foam as a Bifunctional Electrocatalyst. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2019, 35, 1404-1411.	2.2	11
68	Stabilizing and Activating Metastable Nickel Nanocrystals for Highly Efficient Hydrogen Evolution Electrocatalysis. ACS Nano, 2018, 12, 11625-11631.	7.3	55
69	Phase and Morphology Transformation of MnO₂ Induced by Ionic Liquids toward Efficient Water Oxidation. ACS Catalysis, 2018, 8, 10137-10147.	5.5	102
70	Activity and selectivity regulation through varying the size of cobalt active sites in photocatalytic CO₂ reduction. Journal of Materials Chemistry A, 2018, 6, 21110-21119.	5.2	70
71	Î³-Fe2O3 nanoparticles aligned in porous carbon nanofibers towards long life-span lithium ion batteries. Electrochimica Acta, 2018, 289, 264-271.	2.6	25
72	Bandgap engineering of a lead-free defect perovskite Cs₃Bi₂I₉through trivalent doping of Ru³⁺. RSC Advances, 2018, 8, 25802-25807.	1.7	54

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73	Selective reduction of CO2 by conductive MOF nanosheets as an efficient co-catalyst under visible light illumination. Applied Catalysis B: Environmental, 2018, 238, 339-345.	10.8	166
74	A hierarchical nickelâ€“carbon structure templated by metalâ€“organic frameworks for efficient overall water splitting. Energy and Environmental Science, 2018, 11, 2363-2371.	15.6	240
75	Freestanding Electrode Pairs with High Areal Density Fabricated under High Pressure and High Temperature for Flexible Lithium Ion Batteries. ACS Applied Energy Materials, 2018, 1, 3171-3179.	2.5	13
76	Fabrication of nanoporous AuPt nanoparticles modified indium tin oxide electrode and their electrocatalytic effect. Ionics, 2017, 23, 1203-1208.	1.2	5
77	Progress on the Development of Inorganic Lead-Free Perovskite Solar Cells. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2017, 33, 1379-1389.	2.2	5
78	AgAuPt nanocages for highly sensitive detection of hydrogen peroxide. RSC Advances, 2015, 5, 7854-7859.	1.7	16
79	Controllable Electrochemical Synthesis of Silver Nanoparticles on Indiumâ€Tinâ€Oxideâ€Coated Glass. ChemElectroChem, 2015, 2, 578-583.	1.7	2
80	Electrochemical detection of Hg(II) ions based on nanoporous gold nanoparticles modified indium tin oxide electrode. Sensors and Actuators B: Chemical, 2015, 220, 1086-1090.	4.0	71
81	Carborane-Based Metalâ€“Organic Framework with High Methane and Hydrogen Storage Capacities. Chemistry of Materials, 2013, 25, 3539-3543.	3.2	115
82	Methane Storage in Metalâ€“Organic Frameworks: Current Records, Surprise Findings, and Challenges. Journal of the American Chemical Society, 2013, 135, 11887-11894.	6.6	841
83	Aluminium(III) amidinates formed from reactions of `AlCl' with lithium amidinates. Acta Crystallographica Section C: Crystal Structure Communications, 2013, 69, 1120-1123.	0.4	3
84	Simultaneously high gravimetric and volumetric methane uptake characteristics of the metalâ€“organic framework NU-111. Chemical Communications, 2013, 49, 2992.	2.2	137
85	K[Al₄(PPh₂)₇PPh]: An Al^{II} Phosphanide / Phosphinidene Intermediate on the Path to AlP Formation. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2013, 639, 2558-2560.	0.6	6
86	Tetrabromidobis(dicyclohexylphosphane-ÎºP)digallium(Gaâ€”Ga). Acta Crystallographica Section E: Structure Reports Online, 2012, 68, m1245-m1245.	0.2	2
87	Synthesis and Characterization of Two of the Three Isomers of a Germaniumâ€Substituted Bicyclo[2.2.0]hexane Diradicaloid: Stretching the Geï£¿Ge Bond. Angewandte Chemie - International Edition, 2010, 49, 4593-4597.	7.2	22
88	A Ditetrylyne as a Ï€-Electron Donor: Synthesis and Characterization of [AgArâ€²GeGeArâ€²]⁺SbF₆^{â^'} and [Ag₂Arâ€²GeGe(F)Arâ€²]⁺SbF₆^{â^'} (Arâ€² =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1 Journal of the American Chemical Society, 2010, 132, 13150-13151.	6.6	21
89	Synthesis and thermolytic behavior of tin(iv) formates: in search of recyclable metalâ€“hydride systems. Dalton Transactions, 2010, 39, 10659.	1.6	11
90	Substituent effects in ditetrel alkyne analogues: multiple vs. single bonded isomers. Chemical Science, 2010, 1, 461.	3.7	113

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91	Reversible complexation of isocyanides by the distannyne Arâ€²SnSnArâ€² (Arâ€² = C6H3-2,6(C6H3-2,6-iPr2)2). Chemical Communications, 2010, 46, 943.	2.2	40
92	Addition of Hydrogen or Ammonia to a Lowâ€Valent Groupâ€...13 Metal Species at 25â€‰Â°C and 1â€...Atmosphere. Angewandte Chemie - International Edition, 2009, 48, 2031-2034.	7.2	126
93	Reaction of Hydrogen or Ammonia with Unsaturated Germanium or Tin Molecules under Ambient Conditions: Oxidative Addition versus Arene Elimination. Journal of the American Chemical Society, 2009, 131, 16272-16282.	6.6	218
94	An Unsymmetric Oxo/Imido-Bridged Germanium-Centered Singlet Diradicaloid. Journal of the American Chemical Society, 2009, 131, 14164-14165.	6.6	75
95	Room-Temperature Reaction of Carbon Monoxide with a Stable Diarylgermylene. Journal of the American Chemical Society, 2009, 131, 6912-6913.	6.6	87
96	Reversible Reactions of Ethylene with Distannynes Under Ambient Conditions. Science, 2009, 325, 1668-1670.	6.0	185
97	Addition of H2 to distannynes under ambient conditions. Chemical Communications, 2008, , 6042.	2.2	147
98	Diarylstannylene Activation of Hydrogen or Ammonia with Arene Elimination. Journal of the American Chemical Society, 2008, 130, 12268-12269.	6.6	206
99	Isomeric Forms of Heavier Main Group Hydrides:â€‰ Experimental and Theoretical Studies of the [Sn(Ar)H]2 (Ar = Terphenyl) System. Journal of the American Chemical Society, 2007, 129, 16197-16208.	6.6	102
100	Synthesis and Characterization of the Monomeric Sterically Encumbered Diaryls E{C6H3-2,6-(C6H3-2,6-Pri2)2}2 (E = Ge, Sn, or Pb). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2006, 632, 1005-1010.	0.6	58
101	Different reactivity of the heavier group 14 element alkyne analogues Arâ€²MMArâ€² (M = Ge, Sn; Arâ€² =) Tj ETQq1 1 0.784314 rgB	2.2	45
102	Bis[tris(ethylenediamine)cobalt(III)] dichlorobis[Î¼-(1-hydroxyethylidene)diphosphonato(4â€“)]diruthenium(II,III)(Ruâ€“Ru) chloride trihydrate. Acta Crystallographica Section C: Crystal Structure Communications, 2004, 60, m302-m304.	0.4	1
103	Syntheses and Structures of Layered Copper(II) Diphosphonates with Mixed Ligands. European Journal of Inorganic Chemistry, 2003, 2003, 726-730.	1.0	22