

Zheng Wang

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.

112
papers

4,222
citations

31
h-index

63
g-index

116
ext. papers

5,689
ext. citations

8.3
avg, IF

6.39
L-index

#	Paper	IF	Citations
112	Impacts of Metal-Support Interaction on Hydrogen Evolution Reaction of Cobalt-Nitride-Carbide Catalyst.. <i>Frontiers in Chemistry</i> , 2021 , 9, 828964	5	2
111	Insight into the activity and SO ₂ tolerance of hierarchically ordered MnFe _{1-x} Co _x ternary oxides for low-temperature selective catalytic reduction of NO _x with NH ₃ . <i>Journal of Catalysis</i> , 2021 , 395, 195-209	7.3	15
110	Unraveling the boosting low-temperature performance of ordered mesoporous Cu-SSZ-13 catalyst for NO _x reduction. <i>Chemical Engineering Journal</i> , 2021 , 409, 128238	14.7	14
109	Ionothermal Synthesis of Triclinic SAPO-34 Zeolites. <i>Catalysts</i> , 2021 , 11, 616	4	2
108	Simultaneously Tuning the Defects and Surface Properties of TaN Nanoparticles by Mg-Zr Codoping for Significantly Accelerated Photocatalytic H Evolution. <i>Journal of the American Chemical Society</i> , 2021 , 143, 10059-10064	16.4	17
107	Surface Modifications of (ZnSe)(CuGaSe) to Promote Photocatalytic Z-Scheme Overall Water Splitting. <i>Journal of the American Chemical Society</i> , 2021 , 143, 10633-10641	16.4	29
106	Enhanced performances of bimetallic Ga-Pt nanoclusters confined within silicalite-1 zeolite in propane dehydrogenation. <i>Journal of Colloid and Interface Science</i> , 2021 , 593, 304-314	9.3	8
105	2021 ,		5
104	Polyacrylamide-assisted synthesis of hierarchical porous SAPO-34 zeolites with excellent MTO catalytic performance. <i>Microporous and Mesoporous Materials</i> , 2021 , 311, 110676	5.3	11
103	Magnetic mesoporous carbon nanospheres from renewable plant phenol for efficient hexavalent chromium removal. <i>Microporous and Mesoporous Materials</i> , 2021 , 310, 110623	5.3	21
102	DotSCN: Group Re-Identification via Domain-Transferred Single and Couple Representation Learning. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2021 , 31, 2739-2750	6.4	5
101	Photocatalytic Z-scheme water splitting 2021 , 131-176		
100	Seed-sol-assisted construction of a coffin-shaped multilamellar ZSM-5 single crystal using CTAB. <i>Chemical Communications</i> , 2021 , 57, 10624-10627	5.8	1
99	A Na-containing Pt cocatalyst for efficient visible-light-induced hydrogen evolution on BaTaO ₂ N. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 13851-13854	13	3
98	Transfer hydrogenation of CO into formaldehyde from aqueous glycerol heterogeneously catalyzed by Ru bound to LDH. <i>Chemical Communications</i> , 2021 , 57, 5167-5170	5.8	3
97	Efficient oxidative desulfurization over highly dispersed molybdenum oxides supported on mesoporous titanium phosphonates. <i>Microporous and Mesoporous Materials</i> , 2021 , 315, 110921	5.3	14
96	Sequential cocatalyst decoration on BaTaON towards highly-active Z-scheme water splitting. <i>Nature Communications</i> , 2021 , 12, 1005	17.4	46

95	Synthesis of a Ga-doped La ₅ Ti ₂ Cu _{0.9} Ag _{0.1} O _{7.5} photocatalyst by thermal sulfidation for hydrogen evolution under visible light. <i>Journal of Catalysis</i> , 2021 , 399, 230-236	7.3	5
94	Spatially isolated cobalt oxide sites derived from MOFs for direct propane dehydrogenation. <i>Journal of Colloid and Interface Science</i> , 2021 , 594, 113-121	9.3	7
93	Self-template synthesis of spherical mesoporous tin dioxide from tin-polyphenol-formaldehyde polymers for conductometric ethanol gas sensing. <i>Sensors and Actuators B: Chemical</i> , 2021 , 341, 129965	8.5	9
92	Construction of a Mesoporous Ceria Hollow Sphere/Enzyme Nanoreactor for Enhanced Cascade Catalytic Antibacterial Therapy. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 40302-40314	9.5	10
91	Trifunctional strategy for the design and synthesis of a Ni-CeO ₂ @SiO ₂ catalyst with remarkable low-temperature sintering and coking resistance for methane dry reforming. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 1808-1820	11.3	13
90	Hierarchical Mg/ZSM-5 catalysts for methanol-to-propylene reaction via one-step acid treatment. <i>Research on Chemical Intermediates</i> , 2021 , 47, 249-268	2.8	2
89	Facet engineering of LaNbO ₂ transformed from LaKNaNbO ₅ for enhanced photocatalytic O ₂ evolution. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11743-11751	13	11
88	Environmental benign synthesis of Nano-SSZ-13 via FAU trans-crystallization: Enhanced NH-SCR performance on Cu-SSZ-13 with nano-size effect. <i>Journal of Hazardous Materials</i> , 2020 , 398, 122986	12.8	26
87	Cr/Al ₂ O ₃ catalysts with strong metal-support interactions for stable catalytic dehydrogenation of propane to propylene. <i>Molecular Catalysis</i> , 2020 , 493, 111052	3.3	10
86	Direct synthesis of c-axis-oriented HZSM-5 zeolites in polyacrylamide hydrogel. <i>Journal of Sol-Gel Science and Technology</i> , 2020 , 96, 256-263	2.3	1
85	Coligand effects on the architectures and magnetic properties of octahedral cobalt(II) complexes with easy-axis magnetic anisotropy. <i>CrystEngComm</i> , 2020 , 22, 2297-2303	3.3	3
84	Ultrasmall Co confined in the silanols of dealuminated beta zeolite: A highly active and selective catalyst for direct dehydrogenation of propane to propylene. <i>Journal of Catalysis</i> , 2020 , 383, 77-87	7.3	43
83	Fabrication of a superhydrophobic surface using a simple in situ growth method of HKUST-1/copper foam with hexadecanethiol modification. <i>New Journal of Chemistry</i> , 2020 , 44, 7065-7070	3.6	5
82	Engineering heterostructured Ni@Ni(OH) ₂ core-shell nanomaterials for synergistically enhanced water electrolysis. <i>Green Energy and Environment</i> , 2020 ,	5.7	3
81	Industrial carbon dioxide capture and utilization: state of the art and future challenges. <i>Chemical Society Reviews</i> , 2020 , 49, 8584-8686	58.5	184
80	Efficient photocatalytic oxygen evolution using BaTaO ₂ N obtained from nitridation of perovskite-type oxide. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1127-1130	13	20
79	Hierarchical three-dimensionally ordered macroporous Fe-V binary metal oxide catalyst for low temperature selective catalytic reduction of NO _x from marine diesel engine exhaust. <i>Applied Catalysis B: Environmental</i> , 2020 , 268, 118455	21.8	20
78	Fabrication of Single-Crystalline BaTaO ₂ N from Chloride Fluxes for Photocatalytic H ₂ Evolution under Visible Light. <i>Crystal Growth and Design</i> , 2020 , 20, 255-261	3.5	17

77	Switchable superlyophobic zeolitic imidazolate framework-8 film-coated stainless-steel meshes for selective oil/water emulsion separation with high flux. <i>New Journal of Chemistry</i> , 2020 , 44, 13534-13541	3.6	2
76	Platy BaTaO ₂ N Crystals Fabricated from K ₂ CO ₃ /Cl Binary Flux for Photocatalytic H ₂ Evolution. <i>ACS Applied Energy Materials</i> , 2020 , 3, 10669-10675	6.1	6
75	Sol-Gel Synthesis of Spherical Mesoporous High-Entropy Oxides. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 45155-45164	9.5	26
74	Efficient photocatalytic hydrogen evolution on single-crystalline metal selenide particles with suitable cocatalysts. <i>Chemical Science</i> , 2020 , 11, 6436-6441	9.4	13
73	Self-supported Al-doped cobalt phosphide nanosheets grown on three-dimensional Ni foam for highly efficient water reduction and oxidation. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 74-81	6.8	42
72	Recent developments in heterogeneous photocatalysts for solar-driven overall water splitting. <i>Chemical Society Reviews</i> , 2019 , 48, 2109-2125	58.5	1029
71	The importance of direct reduction in the synthesis of highly active Pt ₅ N/SBA-15 for n-butane dehydrogenation. <i>Catalysis Science and Technology</i> , 2019 , 9, 947-956	5.5	12
70	Oxysulfide photocatalyst for visible-light-driven overall water splitting. <i>Nature Materials</i> , 2019 , 18, 827-832	8.2	222
69	Catalysts in Coronas: A Surface Spatial Confinement Strategy for High-Performance Catalysts in Methane Dry Reforming. <i>ACS Catalysis</i> , 2019 , 9, 9072-9080	13.1	56
68	Construction of Spatial Charge Separation Facets on BaTaON Crystals by Flux Growth Approach for Visible-Light-Driven H ₂ Production. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 22264-22271	9.5	31
67	Active and stable Pt-Ceria nanowires@silica shell catalyst: Design, formation mechanism and total oxidation of CO and toluene. <i>Applied Catalysis B: Environmental</i> , 2019 , 256, 117807	21.8	33
66	Composition and kinetic study on template- and solvent-free synthesis of ZSM-5 using leached illite clay. <i>Microporous and Mesoporous Materials</i> , 2019 , 285, 170-177	5.3	11
65	Core-Shell-Structured LaTaON ₂ Transformed from LaKNaTaO ₅ Plates for Enhanced Photocatalytic H ₂ Evolution. <i>Angewandte Chemie</i> , 2019 , 131, 10776-10780	3.6	4
64	Core-Shell-Structured LaTaON Transformed from LaKNaTaO Plates for Enhanced Photocatalytic H ₂ Evolution. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 10666-10670	16.4	32
63	Origin of the overall water splitting activity of TaN revealed by ultrafast transient absorption spectroscopy. <i>Chemical Science</i> , 2019 , 10, 5353-5362	9.4	35
62	Metal selenide photocatalysts for visible-light-driven Z-scheme pure water splitting. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7415-7422	13	46
61	Nitrogen-Rich, Well-Dispersed Nanoporous Carbon Materials for Super-Efficient Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2019 , 6, 1894-1900	4.3	3
60	Mesoporous carbons as metal-free catalysts for propane dehydrogenation: Effect of the pore structure and surface property. <i>Chinese Journal of Catalysis</i> , 2019 , 40, 1385-1394	11.3	15

59	State-of-the-art catalysts for direct dehydrogenation of propane to propylene. <i>Chinese Journal of Catalysis</i> , 2019 , 40, 1233-1254	11.3	69
58	Hexamethylenetetramine-assisted hydrothermal synthesis of efficient and stable Ni-MoCeZr-MgAl(O) catalysts for dry reforming of CH ₄ : Effect of Ni content. <i>Fuel</i> , 2019 , 254, 115562	7.1	7
57	ZnO supported on high-silica HZSM-5 as efficient catalysts for direct dehydrogenation of propane to propylene. <i>Molecular Catalysis</i> , 2019 , 476, 110508	3.3	17
56	Solvent-induced single-crystal-to-single-crystal transformation and tunable magnetic properties of 1D azido-Cu(II) chains with a carboxylate bridge. <i>Dalton Transactions</i> , 2019 , 48, 11268-11277	4.3	9
55	Molecular-Level Understanding of Hydroxyl Groups Boosted the Catalytic Activity of the CuZnAl Catalyst in the Conversion of Syngas to Ethanol. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 19421-19433	3.9	0
54	Effect of Ionothermal Synthesis on the Acidity and Catalytic Performance of a SAPO-5 Molecular Sieve. <i>ChemistrySelect</i> , 2019 , 4, 10520-10524	1.8	4
53	A New Processing Chain for Real-Time Ground-Based SAR (RT-GBSAR) Deformation Monitoring. <i>Remote Sensing</i> , 2019 , 11, 2437	5	3
52	Luminescent metal-organic frameworks with a 2-(4-pyridyl)-terephthalic acid ligand for detection of acetone. <i>New Journal of Chemistry</i> , 2019 , 43, 4800-4807	3.6	13
51	Framework-confined Sn in Si-beta stabilizing ultra-small Pt nanoclusters as direct propane dehydrogenation catalysts with high selectivity and stability. <i>Catalysis Science and Technology</i> , 2019 , 9, 6993-7002	5.5	29
50	ZnO Nanoclusters Supported on Dealuminated Zeolite as a Novel Catalyst for Direct Dehydrogenation of Propane to Propylene. <i>ChemCatChem</i> , 2019 , 11, 868-877	5.2	49
49	Field-induced slow magnetic relaxation in an octahedral high-spin Co(II) complex. <i>Inorganic Chemistry Communication</i> , 2019 , 99, 195-198	3.1	3
48	LaNiO ₃ nanocube embedded in mesoporous silica for dry reforming of methane with enhanced coking resistance. <i>Microporous and Mesoporous Materials</i> , 2018 , 266, 189-197	5.3	34
47	One-dimensional cobalt(II) coordination polymer featuring single-ion-magnet-type field-induced slow magnetic relaxation. <i>New Journal of Chemistry</i> , 2018 , 42, 9612-9619	3.6	17
46	Zeolitic imidazolate framework-8 film coated stainless steel meshes for highly efficient oil/water separation. <i>Chemical Communications</i> , 2018 , 54, 5530-5533	5.8	47
45	Nickel nanoparticles embedded in mesopores of AISBA-15 with a perfect peasecod-like structure: A catalyst with superior sintering resistance and hydrothermal stability for methane dry reforming. <i>Applied Catalysis B: Environmental</i> , 2018 , 224, 488-499	21.8	75
44	Enhanced toluene combustion performance over Pt loaded hierarchical porous MOR zeolite. <i>Chemical Engineering Journal</i> , 2018 , 334, 10-18	14.7	86
43	Design of Stable Ultrasmall PtNi(O) Nanoparticles with Enhanced Catalytic Performance: Insights into the Effects of PtNiNiO Dual Interfaces. <i>ChemCatChem</i> , 2018 , 10, 4134-4142	5.2	10
42	A difunctional azido-cobalt(II) coordination polymer exhibiting slow magnetic relaxation behaviour and high-energy characteristics with good thermostability and insensitivity. <i>Dalton Transactions</i> , 2018 , 47, 12092-12104	4.3	28

41	Elucidating strong metal-support interactions in PtSn/SiO ₂ catalyst and its consequences for dehydrogenation of lower alkanes. <i>Journal of Catalysis</i> , 2018 , 365, 277-291	7.3	52
40	Design of Ni-ZrO ₂ @SiO ₂ catalyst with ultra-high sintering and coking resistance for dry reforming of methane to prepare syngas. <i>Journal of CO₂ Utilization</i> , 2018 , 27, 297-307	7.6	74
39	Solubility of a Russia vacuum residue and group composition of the soluble fractions in different solvents. <i>Petroleum Science and Technology</i> , 2018 , 36, 1427-1431	1.4	
38	Fast and low-temperature elimination of organic templates from SBA-15 using dielectric barrier discharge plasma. <i>Plasma Science and Technology</i> , 2018 , 20, 101001	1.5	3
37	Double-shelled hollow LaNiO ₃ nanocage as nanoreactors with remarkable catalytic performance: Illustrating the special morphology and performance relationship. <i>Molecular Catalysis</i> , 2018 , 455, 57-67	3.3	17
36	Design and Synthesis of Cu/ZSM-5 Catalyst via a Facile One-Pot Dual-Template Strategy with Controllable Cu Content for Removal of NO _x . <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 14967-14976	3.9	16
35	Overall water splitting by Ta ₃ N ₅ nanorod single crystals grown on the edges of KTaO ₃ particles. <i>Nature Catalysis</i> , 2018 , 1, 756-763	36.5	259
34	Ionothermal Synthesis of Hollow Aluminophosphate Molecular Sieves. <i>Particle and Particle Systems Characterization</i> , 2018 , 35, 1800125	3.1	2
33	Bean dregs-derived hierarchical porous carbons as metal-free catalysts for efficient dehydrogenation of propane to propylene. <i>Journal of Chemical Technology and Biotechnology</i> , 2018 , 93, 3410-3417	3.5	8
32	Ag supported on meso-structured SiO ₂ with different morphologies for CO oxidation: On the inherent factors influencing the activity of Ag catalysts. <i>Microporous and Mesoporous Materials</i> , 2017 , 242, 90-98	5.3	20
31	Which is an Intermediate Species for Photocatalytic Conversion of CO ₂ by H ₂ O as the Electron Donor: CO ₂ Molecule, Carbonic Acid, Bicarbonate, or Carbonate Ions?. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 8711-8721	3.8	43
30	Facile Hydrothermal Synthesis of Sn-Mn Mixed Oxide Nano-rods with Exposed (110) Facets and Remarkable Catalytic Performance. <i>ChemistrySelect</i> , 2017 , 2, 6364-6369	1.8	1
29	Enhancement of CO Evolution by Modification of GaO with Rare-Earth Elements for the Photocatalytic Conversion of CO by HO. <i>Langmuir</i> , 2017 , 33, 13929-13935	4	32
28	One-Pot Facile Fabrication of Multiple Nickel Nanoparticles Confined in Microporous Silica Giving a Multiple-Cores@Shell Structure as a Highly Efficient Catalyst for Methane Dry Reforming. <i>ChemCatChem</i> , 2017 , 9, 127-136	5.2	49
27	Tuning the selectivity toward CO evolution in the photocatalytic conversion of CO ₂ with H ₂ O through the modification of Ag-loaded Ga ₂ O ₃ with a ZnGa ₂ O ₄ layer. <i>Catalysis Science and Technology</i> , 2016 , 6, 1025-1032	5.5	73
26	Fabrication of a highly b-oriented MFI-type zeolite film-modified electrode with molecular sieving properties by LangmuirBlodgett method. <i>Journal of Materials Science</i> , 2016 , 51, 3257-3270	4.3	8
25	Synthesis of uniform mesoporous ZSM-5 using hydrophilic carbon as a hard template. <i>Materials Chemistry and Physics</i> , 2016 , 177, 112-117	4.4	23
24	Photocatalytic conversion of CO ₂ in water over Ag-modified La ₂ Ti ₂ O ₇ . <i>Applied Catalysis B: Environmental</i> , 2015 , 163, 241-247	21.8	102

23	Photocatalytic Conversion of CO ₂ by H ₂ O over Ag-Loaded SrO-Modified Ta ₂ O ₅ . <i>Bulletin of the Chemical Society of Japan</i> , 2015 , 88, 431-437	5.1	45
22	Highly efficient photocatalytic conversion of CO ₂ into solid CO using H ₂ O as a reductant over Ag-modified ZnGa ₂ O ₄ . <i>Journal of Materials Chemistry A</i> , 2015 , 3, 11313-11319	13	81
21	A doping technique that suppresses undesirable H ₂ evolution derived from overall water splitting in the highly selective photocatalytic conversion of CO ₂ in and by water. <i>Chemistry - A European Journal</i> , 2014 , 20, 9906-9	4.8	94
20	Fabrication of a highly b-oriented MFI-type zeolite film by the Langmuir-Blodgett method. <i>Langmuir</i> , 2014 , 30, 4531-4	4	17
19	Characterization of Cu Nanoparticles on TiO ₂ Photocatalysts Fabricated by Electroless Plating Method. <i>Topics in Catalysis</i> , 2014 , 57, 975-983	2.3	14
18	Evaluating and optimizing pretreatment technique for catalytic hydrogenolysis conversion of corn stalk into polyol. <i>Bioresource Technology</i> , 2014 , 158, 307-12	11	23
17	Au/Pt Nanoparticle-Decorated TiO ₂ Nanofibers with Plasmon-Enhanced Photocatalytic Activities for Solar-to-Fuel Conversion. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 25939-25947	3.8	246
16	Preparation and Characterization of Magnetically Core-Shell Structure Carbon Based Solid Sulfonic Acid. <i>Advanced Materials Research</i> , 2012 , 599, 86-90	0.5	1
15	Two new 3D lanthanide metal-organic frameworks constructed from nitrilotriacetate and oxalate ligands. <i>Inorganic Chemistry Communication</i> , 2011 , 14, 320-323	3.1	3
14	Poly[(aqua-calcium)-(4-pyrazine-2,3-di-carboxyl-ato)]. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011 , 67, m1857		
13	Oriented ZSM-5 Zeolite Membranes on Biomorphic SiSiC Ceramics for Microreactors. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2009 , 24, 330-334	1	3
12	Silicalite-1 films with preferred orientation. <i>Microporous and Mesoporous Materials</i> , 2008 , 116, 22-27	5.3	16
11	Organic functionalization of Silicalite-1 nanocrystals by ultrasonic treatment in methanol. <i>Microporous and Mesoporous Materials</i> , 2008 , 116, 59-62	5.3	7
10	Langmuir-Blodgett Deposited Monolayers of Silicalite-1 Seeds for Secondary Growth of Continuous Zeolite Films. <i>Chemistry of Materials</i> , 2007 , 19, 5806-5808	9.6	29
9	Lipase immobilized on HOOC-MCF: A highly enantioselective catalyst for transesterification resolution of (R,S)-1-phenylethanol. <i>Chinese Chemical Letters</i> , 2007 , 18, 929-932	8.1	17
8	Biomorphic Silicon Nitride Ceramics with Fibrous Morphology Prepared by Sol Infiltration and Reduction-Nitridation. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 070926191407002-???	3.8	
7	Polycrystalline films of epitaxial MFI overgrowths. <i>Microporous and Mesoporous Materials</i> , 2006 , 97, 27-33	3.3	2
6	Zeolite coated ATR crystal probes. <i>Sensors and Actuators B: Chemical</i> , 2006 , 115, 685-690	8.5	17

5	Oriented films of epitaxial MFI overgrowths. <i>Microporous and Mesoporous Materials</i> , 2006 , 95, 86-91	5-3	10
4	Silicalite-1 coated ATR elements as sensitive chemical sensor probes. <i>Microporous and Mesoporous Materials</i> , 2005 , 81, 357-363	5-3	35
3	Synthesis and characterization of colloidal zoned MFI crystals. <i>Microporous and Mesoporous Materials</i> , 2005 , 78, 1-10	5-3	48
2	Synthesis of thin silicalite-1 films on steel supports using a seeding method. <i>Microporous and Mesoporous Materials</i> , 2002 , 52, 191-197	5-3	28
1	Cocatalyst Modification of AgTaO ₃ Photocatalyst for Conversion of Carbon Dioxide with Water. <i>Journal of Physical Chemistry C</i> ,	3-8	1