Yihong Xiao

List of Publications by Year in Descending Order

49 papers	785 citations	16 h-index	25 g-index
52 ext. papers	1,141 ext. citations	7.2 avg, IF	4.58 L-index

#	Paper	IF	Citations
49	Sustainable synthesis of ordered mesoporous materials without additional solvents.. *Journal of Colloid and Interface Science*, **2022**, 619, 116-122	9.3	0
48	Highly Poison-Resistant Single-Atom Co-N Active Sites with Superior Operational Stability over 460 h for H S Catalytic Oxidation. *Small*, **2021**, 17, e2104939	11	2
47	Electronic Regulation of Bromophenyl Grafted Metal-Free Carbon Nitride Catalysts for Enhanced Utilization of H2S. *ChemCatChem*, **2021**, 13, 2386-2392	5.2	3
46	Engineering of crystal phase over porous MnO with 3D morphology for highly efficient elimination of HS. *Journal of Hazardous Materials*, **2021**, 411, 125180	12.8	19
45	Porous Fe2O3/SnO2 nanoflower with enhanced sulfur selectivity and stability for H2S selective oxidation. *Chinese Chemical Letters*, **2021**, 32, 2143-2150	8.1	7
44	Construction and evolution of active palladium species on phase-regulated reducible TiO2 for methane combustion. *Catalysis Science and Technology*, **2021**, 11, 836-845	5.5	3
43	Hierarchical N-Doped Carbons Endowed with Structural Base Sites toward Highly Selective Adsorption and Catalytic Oxidation of H2S. *Industrial & Engineering Chemistry Research*, **2021**, 60, 2101-2111	3.9	7
42	Construction of a Pd(PdO)/CoO@SiO core-shell structure for efficient low-temperature methane combustion. *Nanoscale*, **2021**, 13, 5026-5032	7.7	4
41	Porous flake-like Al-rich MgAl2O4 endowed with Mg vacancies for efficient oxidative desulfurization. *Applied Catalysis A: General*, **2021**, 623, 118238	5.1	1
40	Catalytic methane oxidation performance over Pd/Al2O3 catalyst optimized by the synergy of phosphorus and MOx (M = La, Ba and Zr). *Fuel*, **2021**, 299, 120933	7.1	9
39	Synergistic tuning of the phase structure of alumina and ceria-zirconia in supported palladium catalysts for enhanced methane combustion. *International Journal of Hydrogen Energy*, **2021**, 46, 33397-33408	6.7	2
38	Construction of cross-linked MnO2 with ultrathin structure for the oxidation of H2S: Structure-activity relationship and kinetics study. *Applied Catalysis B: Environmental*, **2021**, 297, 120402	21.8	11
37	A solid thermal and fast synthesis of MgAl-hydrotalcite nanosheets and their applications in the catalytic elimination of carbonyl sulfide and hydrogen sulfide. *New Journal of Chemistry*, **2021**, 45, 3535-3545	3.6	1
36	Promoting effect of Cu-doping on catalytic activity and SO2 resistance of porous CeO2 nanorods for H2S selective oxidation. *Journal of Catalysis*, **2020**, 389, 382-399	7.3	23
35	Site-Oriented Design of High-Performance Halloysite-Supported Palladium Catalysts for Methane Combustion. *Industrial & Engineering Chemistry Research*, **2020**, 59, 5636-5647	3.9	15
34	Highly Efficient Porous FexCe1xO2 with Three-Dimensional Hierarchical Nanoflower Morphology for H2S-Selective Oxidation. *ACS Catalysis*, **2020**, 10, 3968-3983	13.1	36
33	Facile construction of ultrastable alumina anchored palladium catalysts via a designed one pot strategy for enhanced methane oxidation. *Catalysis Science and Technology*, **2020**, 10, 4612-4623	5.5	16

32	A2B2O7 (A= La, Pr, Nd, Sm, Gd and BTi, Zr, Sn) ceramics for mild-temperature NO2 sensing and reduction. *Journal of Alloys and Compounds*, **2020**, 831, 154866	5.7	9
31	Efficient catalytic elimination of COS and H2S by developing ordered mesoporous carbons with versatile base N sites via a calcination induced self-assembly route. *Chemical Engineering Science*, **2020**, 221, 115714	4.4	28
30	Heterovalent ions incorporated pyrochlore Sm2Zr2O7 ceramic for enhanced NO2 sensing. *Journal of the European Ceramic Society*, **2020**, 40, 3453-3461	6	2
29	Controllable synthesis of mesoporous alumina as support for palladium catalysts and reconstruction of active sites during methane combustion. *International Journal of Hydrogen Energy* , **2020**, 45, 15142-15156	6.7	6
28	Facile Strategy to Extend Stability of Simple Component-Alumina-Supported Palladium Catalysts for Efficient Methane Combustion. *ACS Applied Materials & Interfaces*, **2020**, 12, 56095-56107	9.5	17
27	Gas sensing properties of amperometric NH3 sensors based on Sm2Zr2O7 solid electrolyte and SrM2O4 (M = Sm, La, Gd, Y) sensing electrodes. *Sensors and Actuators B: Chemical*, **2020**, 303, 127220	8.5	9
26	Pyrochlore doped Pr2Sn2O7 ceramics: Electronic transport properties and high NO2 sensitivity. *Journal of the European Ceramic Society*, **2020**, 40, 1376-1385	6	4
25	Highly Active and Sulfur-Resistant Fe-N Sites in Porous Carbon Nitride for the Oxidation of H S into Elemental Sulfur. *Small*, **2020**, 16, e2003904	11	13
24	Enhanced Methane Oxidation over Co3O4□h2O3-x Composite Oxide Nanoparticles via Controllable Substitution of Co3+/Co2+ by In3+ Ions. *ACS Applied Nano Materials*, **2020**, 3, 9470-9479	5.6	7
23	Microstructural property regulation and performance in methane combustion reaction of ordered mesoporous alumina supported palladium-cobalt bimetallic catalysts. *Applied Catalysis B: Environmental*, **2020**, 263, 118269	21.8	22
22	Porous nanosheets of carbon-conjugated graphitic carbon nitride for the oxidation of H2S to elemental sulfur. *Carbon*, **2019**, 155, 204-214	10.4	34
21	Exfoliation of Graphitic Carbon Nitride for Enhanced Oxidative Desulfurization: A Facile and General Strategy. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 4941-4950	8.3	49
20	Cu incorporated perovskite Na0.5Bi0.5TiO3 oxygen-defect conductor as NO2 sensor using CuO sensitive electrode. *Ceramics International*, **2019**, 45, 8494-8503	5.1	10
19	Insight into the effect of morphology on catalytic performance of porous CeO2 nanocrystals for H2S selective oxidation. *Applied Catalysis B: Environmental*, **2019**, 252, 98-110	21.8	118
18	Mechanochemically synthesized MgAl layered double hydroxide nanosheets for efficient catalytic removal of carbonyl sulfide and HS. *Chemical Communications*, **2019**, 55, 9375-9378	5.8	25
17	Improved methane oxidation activity of P-doped □Al2O3 supported palladium catalysts by tailoring the oxygen mobility and electronic properties. *International Journal of Hydrogen Energy*, **2019**, 44, 27772-27783	6.7	11
16	Pyrochlore Pr2Zr1.95In0.05O7+□oxygen conductors: Defect-induced electron transport and enhanced NO2 sensing performances. *Electrochimica Acta*, **2019**, 293, 338-347	6.7	11
15	Pyrochlore Pr2Zr2-xMxO7+□(M = Al, Ga, In) solid-state electrolytes: Defect-mediated oxygen hopping pathways and enhanced NO2 sensing properties. *Sensors and Actuators B: Chemical*, **2018**, 270, 130-139	8.5	15

14	Synthesis of a Highly Stable Pd@CeO Catalyst for Methane Combustion with the Synergistic Effect of Urea and Citric Acid. *ACS Omega*, **2018**, 3, 16769-16776	3.9	16
13	Catalytic Activity and Stability over Nanorod-Like Ordered Mesoporous Phosphorus-Doped Alumina Supported Palladium Catalysts for Methane Combustion. *ACS Catalysis*, **2018**, 8, 11016-11028	13.1	55
12	Synthesis of Mg-Doped Ordered Mesoporous Pd□Al2O3 with Different Basicity for CO, NO, and HC Elimination. *Industrial & Engineering Chemistry Research*, **2017**, 56, 1687-1695	3.9	34
11	Ce incorporated pyrochlore Pr2Zr2O7 solid electrolytes for enhanced mild-temperature NO2 sensing. *Ceramics International*, **2017**, 43, 11799-11806	5.1	13
10	A Novel Highly Sensitive NO Sensor Based on Perovskite NaBiTiO Electrolyte. *Scientific Reports*, **2017**, 7, 4997	4.9	4
9	Alkaline-Earth Metals-Doped Pyrochlore GdZrO as Oxygen Conductors for Improved NO Sensing Performance. *Scientific Reports*, **2017**, 7, 4684	4.9	25
8	Facile synthesis of Mn-Fe/CeO nanotubes by gradient electrospinning and their excellent catalytic performance for propane and methane oxidation. *Dalton Transactions*, **2017**, 46, 16967-16972	4.3	19
7	Effects of A-site non-stoichiometry in YInO on the catalytic performance during methane combustion. *Physical Chemistry Chemical Physics*, **2017**, 19, 30418-30428	3.6	8
6	Total oxidation of benzene over cobalt-aluminum mixed oxides prepared from layered double hydroxides: influence of preparation methods. *Reaction Kinetics, Mechanisms and Catalysis*, **2016**, 118, 593-604	1.6	6
5	A GdAlO Perovskite Oxide Electrolyte-Based NO Solid-State Sensor. *Scientific Reports*, **2016**, 6, 37795	4.9	12
4	Effect of Si-Doping on Thermal Stability and Diesel Oxidation Activity of Pt Supported Porous □Al2O3 Monolithic Catalyst. *Catalysis Letters*, **2011**, 141, 1828-1837	2.8	11
3	Highly efficient Pd/Al2O3-Ce0.6Zr0.4O2 catalyst pretreated by H2 for low-temperature methanol oxidation. *Catalysis Science and Technology*, **2011**, 1, 1362	5.5	12
2	Thermally Stable CeO2□ZrO2□La2O3 Ternary Oxides Prepared by Deposition□Precipitation as Support of Rh Catalyst for Catalytic Reduction of NO by CO. *Catalysis Letters*, **2009**, 133, 125-133	2.8	9
1	Preparation of Promoted Pt/SBA-15 and Effect of Cerium on the Catalytic Activity over Carbon Monoxide Oxidation Conversion Reaction. *Catalysis Letters*, **2009**, 133, 354-361	2.8	6