

Wenxiang Tang

List of Publications by Year in descending order

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49
papers

2,961
citations

186265
28
h-index

189892
50
g-index

50
all docs

50
docs citations

50
times ranked

3434
citing authors

#	ARTICLE	IF	CITATIONS
1	MOF Thin Film-Coated Metal Oxide Nanowire Array: Significantly Improved Chemiresistor Sensor Performance. <i>Advanced Materials</i> , 2016, 28, 5229-5234.	21.0	492
2	Oxalate route for promoting activity of manganese oxide catalysts in total VOCs TM oxidation: effect of calcination temperature and preparation method. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2544-2554.	10.3	301
3	MOF-derived hierarchical hollow ZnO nanocages with enhanced low-concentration VOCs gas-sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2016, 225, 158-166.	7.8	191
4	Effect of Cu substitution on promoted benzene oxidation over porous CuCo-based catalysts derived from layered double hydroxide with resistance of water vapor. <i>Applied Catalysis B: Environmental</i> , 2015, 166-167, 260-269.	20.2	175
5	Co-nanocasting synthesis of mesoporous Cu-Mn composite oxides and their promoted catalytic activities for gaseous benzene removal. <i>Applied Catalysis B: Environmental</i> , 2015, 162, 110-121.	20.2	159
6	Porous Mn-Co mixed oxide nanorod as a novel catalyst with enhanced catalytic activity for removal of VOCs. <i>Catalysis Communications</i> , 2014, 56, 134-138.	3.3	133
7	Boosting catalytic propane oxidation over PGM-free Co ₃ O ₄ nanocrystal aggregates through chemical leaching: A comparative study with Pt and Pd based catalysts. <i>Applied Catalysis B: Environmental</i> , 2018, 226, 585-595.	20.2	113
8	Decoration of one-dimensional MnO ₂ with Co ₃ O ₄ nanoparticles: A heterogeneous interface for remarkably promoting catalytic oxidation activity. <i>Chemical Engineering Journal</i> , 2016, 306, 709-718.	12.7	100
9	Activating low-temperature diesel oxidation by single-atom Pt on TiO ₂ nanowire array. <i>Nature Communications</i> , 2020, 11, 1062.	12.8	90
10	Alkali-metal poisoning effect of total CO and propane oxidation over Co ₃ O ₄ nanocatalysts. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117859.	20.2	78
11	Preparation of hierarchical layer-stacking Mn-Ce composite oxide for catalytic total oxidation of VOCs. <i>Journal of Rare Earths</i> , 2015, 33, 62-69.	4.8	75
12	Effects of cerium incorporation on the catalytic oxidation of benzene over flame-made perovskite La _{1-x} Ce _x MnO ₃ catalysts. <i>Particuology</i> , 2015, 19, 60-68.	3.6	66
13	Synergistic Effects in Porous Mn-Co Mixed Oxide Nanorods Enhance Catalytic Deep Oxidation of Benzene. <i>Catalysis Letters</i> , 2014, 144, 1900-1910.	2.6	65
14	Sol-gel process for the synthesis of ultrafine MnO ₂ nanowires and nanorods. <i>Materials Letters</i> , 2014, 132, 317-321.	2.6	62
15	Destroying the structure of extracellular polymeric substance to improve the dewatering performance of waste activated sludge by ionic liquid. <i>Water Research</i> , 2021, 199, 117161.	11.3	58
16	Importance of porous structure and synergistic effect on the catalytic oxidation activities over hierarchical Mn-Ni composite oxides. <i>Catalysis Science and Technology</i> , 2016, 6, 1710-1718.	4.1	55
17	Higher Oxidation State Responsible for Ozone Decomposition at Room Temperature over Manganese and Cobalt Oxides: Effect of Calcination Temperature. <i>Ozone: Science and Engineering</i> , 2014, 36, 502-512.	2.5	49
18	Hierarchical hollow ZnO cubes constructed using self-sacrificial ZIF-8 frameworks and their enhanced benzene gas-sensing properties. <i>New Journal of Chemistry</i> , 2015, 39, 7060-7065.	2.8	48

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19	Core-shell Au@ZnO nanoparticles derived from Au@MOF and their sub-ppm level acetone gas-sensing performance. Powder Technology, 2016, 304, 241-247.	4.2	43
20	Template-Guided Programmable Janus Heteronanostructure Arrays for Efficient Plasmonic Photocatalysis. Nano Letters, 2018, 18, 4914-4921.	9.1	42
21	Design and synthesis of porous non-noble metal oxides for catalytic removal of VOCs. Science China Chemistry, 2015, 58, 1359-1366.	8.2	41
22	Promoting effect of acid treatment on Pd-Ni/SBA-15 catalyst for complete oxidation of gaseous benzene. Catalysis Communications, 2017, 89, 86-90.	3.3	39
23	MnO ₂ -nanowire@NiO-nanosheet core-shell hybrid nanostructure derived interfacial Effect for promoting catalytic oxidation activity. Catalysis Today, 2018, 308, 58-63.	4.4	39
24	Scalable Integration of Highly Uniform Mn _x Co _{3-3x} O ₄ Nanosheet Array onto Ceramic Monolithic Substrates for Low-Temperature Propane Oxidation. ChemCatChem, 2017, 9, 4112-4119.	3.7	36
25	Copper manganese oxide enhanced nanoarray-based monolithic catalysts for hydrocarbon oxidation. Journal of Materials Chemistry A, 2018, 6, 19047-19057.	10.3	35
26	Restrictive nanoreactor for growth of transition metal oxides (MnO ₂ , Co ₃ O ₄ , NiO) nanocrystal with enhanced catalytic oxidation activity. Catalysis Communications, 2015, 72, 165-169.	3.3	31
27	Reduced graphene oxide modified platinum catalysts for the oxidation of volatile organic compounds. Catalysis Today, 2016, 278, 203-208.	4.4	31
28	Limited nanospace for growth of Ni-Mn composite oxide nanocrystals with enhanced catalytic activity for deep oxidation of benzene. Catalysis Today, 2015, 258, 148-155.	4.4	29
29	Pre-surface leached cordierite honeycombs for Mn _x Co _{3-x} O ₄ nano-sheet array integration with enhanced hydrocarbons combustion. Catalysis Today, 2019, 320, 196-203.	4.4	26
30	Surface Diffusion of Pt Clusters in/on SiO ₂ Matrix at Elevated Temperatures and Their Improved Catalytic Activities in Benzene Oxidation. Journal of Physical Chemistry C, 2014, 118, 22719-22729.	3.1	23
31	Controlled synthesis of hierarchical MnO ₂ microspheres with hollow interiors for the removal of benzene. RSC Advances, 2014, 4, 26796.	3.6	22
32	Large-scale synthesis of hierarchical MnO ₂ for benzene catalytic oxidation. Particuology, 2014, 14, 71-75.	3.6	21
33	Cu-Decorated ZnO Nanorod Array Integrated Structured Catalysts for Low-Pressure CO ₂ Hydrogenation to Methanol. Advanced Materials Interfaces, 2018, 5, 1700730.	3.7	20
34	Template-free synthesis of hierarchical layer-stacking CeO ₂ nanostructure with enhanced catalytic oxidation activity. Materials Letters, 2015, 140, 95-98.	2.6	19
35	Understanding low temperature oxidation activity of nanoarray-based monolithic catalysts: from performance observation to structural and chemical insights. Emission Control Science and Technology, 2017, 3, 18-36.	1.5	18
36	Influence of CoO glass-ceramic coating on the anti-oxidation behavior and thermal shock resistance of 200 stainless steel at elevated temperature. Ceramics International, 2014, 40, 12327-12335.	4.8	16

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37	A protective ceramic coating to improve oxidation and thermal shock resistance on CrMn alloy at elevated temperatures. <i>Ceramics International</i> , 2015, 41, 4706-4713.	4.8	15
38	Catalytic removal of gaseous benzene over Pt/SBA-15 catalyst: the effect of the preparation method. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2015, 114, 711-723.	1.7	15
39	Mesoporous Perovskite Nanotube Array Enhanced Metallic State Platinum Dispersion for Low Temperature Propane Oxidation. <i>ChemCatChem</i> , 2018, 10, 2184-2189.	3.7	14
40	In Situ Synthesis of Monolithic Cu ₂ O@CuO/Cu Catalysts for Effective Ozone Decomposition. <i>Journal of Physical Chemistry C</i> , 2022, 126, 317-325.	3.1	13
41	Co-templating synthesis of mesoporous hollow silica spheres and their application in catalytic oxidation with low Pt loading. <i>Materials Letters</i> , 2016, 168, 111-115.	2.6	12
42	Microemulsion solvating-out co-precipitation strategy for fabricating highly active Cu@ZnO/Al ₂ O ₃ dual site catalysts for reverse water gas shift. <i>Catalysis Science and Technology</i> , 2020, 10, 2343-2352.	4.1	10
43	Insights into the Sintering Resistance of Sphere-like Mn ₂ O ₃ in Catalytic Toluene Oxidation: Effect of Manganese Salt Precursor and Crucial Role of Residual Trace Sulfur. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 6414-6426.	3.7	10
44	Nanostructured TiO ₂ Support Effect on Hydrothermal Stability of Platinum based Catalysts. <i>Microscopy and Microanalysis</i> , 2018, 24, 1642-1643.	0.4	7
45	NiO nanosheet array integrated monoliths for low temperature catalytic propane oxidation: A study on the promotion effect of Ce doping. <i>Catalysis Today</i> , 2021, 360, 194-203.	4.4	6
46	Preparation and Li ⁺ storage properties of hierarchical hollow porous carbon spheres. <i>Particuology</i> , 2014, 14, 44-50.	3.6	5
47	Reaction Performance and Flow Behavior of Isobutane/1-Butene and H ₂ SO ₄ in the Microreactor Configured with the Micro-mixer. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 9122-9135.	3.7	4
48	Methanol Production: Cu Decorated ZnO Nanorod Array Integrated Structured Catalysts for Low Pressure CO ₂ Hydrogenation to Methanol (<i>Adv. Mater. Interfaces</i> 3/2018). <i>Advanced Materials Interfaces</i> , 2018, 5, 1870011.	3.7	3
49	Novel CrFeCoNiSi ₆ /Si System for Boron Removal from Metallurgical Silicon Feedstock. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 3412-3417.	3.7	1