

Wei Han

List of Publications by Year in descending order

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38
papers

1,488
citations

331670

21
h-index

330143

37
g-index

40
all docs

40
docs citations

40
times ranked

1951
citing authors

#	ARTICLE	IF	CITATIONS
1	New Membrane Architecture with High Performance: ZIF-8 Membrane Supported on Vertically Aligned ZnO Nanorods for Gas Permeation and Separation. <i>Chemistry of Materials</i> , 2014, 26, 1975-1981.	6.7	199
2	A simple and scalable method for preparing low-defect ZIF-8 tubular membranes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 10635.	10.3	139
3	<i>Operando</i> Investigation of Toluene Oxidation over 1D Pt@CeO ₂ Derived from Pt Cluster-Containing MOF. <i>Journal of the American Chemical Society</i> , 2021, 143, 196-205.	13.7	128
4	Performance of an aliovalent-substituted CoCeO _x catalyst from bimetallic MOF for VOC oxidation in air. <i>Applied Catalysis B: Environmental</i> , 2020, 275, 119121.	20.2	101
5	Catalytic behavior of hydrothermally synthesized La _{0.5} Sr _{0.5} MnO ₃ single-crystal cubes in the oxidation of CO and CH ₄ . <i>Journal of Catalysis</i> , 2007, 250, 1-11.	6.2	93
6	Layer-by-layer assembly of TiO ₂ colloids onto diatomite to build hierarchical porous materials. <i>Journal of Colloid and Interface Science</i> , 2008, 323, 326-331.	9.4	83
7	Investigating the Role of Zeolite Nanocrystal Seeds in the Synthesis of Mesoporous Catalysts with Zeolite Wall Structure. <i>Chemistry of Materials</i> , 2011, 23, 4469-4479.	6.7	66
8	Zeolites and mesoporous materials in fuel cell applications. <i>Catalysis Today</i> , 2014, 236, 182-205.	4.4	65
9	Performance of TS-1-Coated Structured Packing Materials for Styrene Oxidation Reaction. <i>ACS Catalysis</i> , 2011, 1, 437-445.	11.2	55
10	Diatomite as high performance and environmental friendly catalysts for phenol hydroxylation with H ₂ O ₂ . <i>Science and Technology of Advanced Materials</i> , 2007, 8, 106-109.	6.1	48
11	A Novel Approach to High-Performance Aliovalent-Substituted Catalysts—2D Bimetallic MOF-Derived CeCuO _x Microsheets. <i>Small</i> , 2019, 15, e1903525.	10.0	46
12	Preparation and performance of TS-1/SiO ₂ egg-shell catalysts. <i>Chemical Engineering Journal</i> , 2011, 175, 408-416.	12.7	45
13	Zeolite applications in fuel cells: Water management and proton conductivity. <i>Chemical Engineering Journal</i> , 2012, 187, 367-371.	12.7	41
14	Factors affecting the formation of Sn-Beta zeolites by steam-assisted conversion method. <i>Materials Chemistry and Physics</i> , 2013, 141, 519-529.	4.0	37
15	Pd nanoparticles immobilized in a microporous/mesoporous composite ZIF-8/MSS: A multifunctional catalyst for the hydrogenation of alkenes. <i>Microporous and Mesoporous Materials</i> , 2014, 197, 324-330.	4.4	36
16	Mixed reforming of heptane to syngas in the Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O ₃ membrane reactor. <i>Catalysis Today</i> , 2005, 104, 149-153.	4.4	33
17	Confined PFSA/MOF composite membranes in fuel cells for promoted water management and performance. <i>Catalysis Today</i> , 2019, 331, 12-17.	4.4	27
18	Synthesis of hierarchical porous materials with ZSM-5 structures via template-free sol-gel method. <i>Science and Technology of Advanced Materials</i> , 2007, 8, 101-105.	6.1	26

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19	Exploration of perfluorooctane sulfonate degradation properties and mechanism via electron-transfer dominated radical process. <i>Water Research</i> , 2022, 215, 118259.	11.8	26
20	Confined PFSA-zeolite composite membrane for self-humidifying fuel cell. <i>Chemical Communications</i> , 2011, 47, 8085.	4.1	24
21	Investigation of Pd membrane reactors for one-step hydroxylation of benzene to phenol. <i>Catalysis Today</i> , 2012, 193, 151-157.	4.4	24
22	Zeolite Proton Conducting Membrane for Micro Fuel Cell Applications. <i>Topics in Catalysis</i> , 2010, 53, 1394-1400.	2.8	19
23	Gas phase dehydration of glycerol to acrolein on an amino siloxane-functionalized MCM-41 supported Wells-Dawson type $H_{6}P_{2}W_{18}O_{62}$ catalyst. <i>New Journal of Chemistry</i> , 2018, 42, 14271-14280.	2.8	19
24	Mixed reforming of simulated gasoline to hydrogen in a BSCFO membrane reactor. <i>Catalysis Today</i> , 2006, 118, 39-43.	4.4	16
25	Preparation and performance of catalytic MOFs in microreactor. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 98, 85-93.	5.3	16
26	Catalytic partial oxidation of gasoline to syngas in a dense membrane reactor. <i>Catalysis Today</i> , 2004, 93-95, 257-261.	4.4	12
27	A new structured composite membrane for fuel cell applications. <i>Catalysis Today</i> , 2012, 193, 194-199.	4.4	11
28	Bimetallic Catalysts: A Novel Approach to High-Performance Aliovalent-Substituted Catalysts-2D Bimetallic MOF-Derived $CeCuO_x$ Microsheets (Small 42/2019). <i>Small</i> , 2019, 15, 1970225.	10.0	10
29	Crystal structure stability and catalytic activity of magnetoplumbite (MP) catalyst doped with Mn and Mg. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 4806-4812.	3.1	9
30	A method for diatomite zeolitization through steam-assisted crystallization with in-situ seeding. <i>Materials Letters</i> , 2008, 62, 2400-2403.	2.6	8
31	Investigating the electron shuttling characteristics of resazurin in enhancing bio-electricity generation in microbial fuel cell. <i>Chemical Engineering Journal</i> , 2022, 428, 130924.	12.7	6
32	A novel template-free sol-gel synthesis of silica materials with mesoporous structures and zeolitic walls. <i>Journal of Sol-Gel Science and Technology</i> , 2007, 43, 205-211.	2.4	5
33	Performance study of heptane reforming in the dense ceramic membrane reactors. <i>AIChE Journal</i> , 2008, 54, 242-248.	3.6	5
34	Hydrothermal Stability of Meso-microporous Composites and Their Catalytic Cracking Performance. <i>Chinese Journal of Catalysis</i> , 2011, 32, 418-427.	14.0	4
35	Effect of the morphology on thermal stability of the Ba-Ce-Mn-Al-O oxides synthesized in a reverse microemulsion. <i>Journal of Alloys and Compounds</i> , 2008, 461, 516-520.	5.5	3
36	One-pot Synthesis of Mesoporous TiO_2 from Self-Assembled Sol Particles and Its Application as Mesoscopic Photoanodes of Dye-Sensitized Solar Cells. <i>ChemPlusChem</i> , 2013, 78, 647-655.	2.8	2

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37	Template-free sol-gel synthesis of mesoporous materials with ZSM-5 structure walls. Studies in Surface Science and Catalysis, 2007, 165, 515-518.	1.5	1
38	Assembly of mesocellular silica foams from colloidal zeolite nanocrystals through template free process. Studies in Surface Science and Catalysis, 2007, 165, 507-510.	1.5	0