

Xiaoliang Yan

List of Publications by Year in descending order

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56
papers

1,701
citations

304743

22
h-index

276875

41
g-index

58
all docs

58
docs citations

58
times ranked

2295
citing authors

#	ARTICLE	IF	CITATIONS
1	Dehydrogenation of ethylbenzene with CO ₂ over porous Co/Al ₂ O ₃ /ZrO ₂ catalyst. <i>Materials Chemistry and Physics</i> , 2021, 257, 123773.	4.0	7
2	Synthesis of composite zeolites composed of SAPO-5 and SAPO-34 and its application in methanol dehydration to light olefins. <i>Journal of Porous Materials</i> , 2021, 28, 1281-1289.	2.6	3
3	Metal nanoparticles encapsulated within SOD zeolite coupling with HZSM-5 for hydrogenative conversion of methylcyclopentane. <i>Fuel</i> , 2021, 291, 120159.	6.4	12
4	Immobilization of nickel ions by the confinement of surface aluminate spinel at low temperature. <i>Journal of Solid State Chemistry</i> , 2021, 304, 122557.	2.9	1
5	Preparation and investigation of Pd doped Cu catalysts for selective hydrogenation of acetylene. <i>Frontiers of Chemical Science and Engineering</i> , 2020, 14, 522-533.	4.4	12
6	The next big thing for silicon nanostructures – CO ₂ photocatalysis. <i>Faraday Discussions</i> , 2020, 222, 424-432.	3.2	13
7	Influence of Acidity of Mesoporous ZSM-5-Supported Pt on Naphthalene Hydrogenation. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 1056-1064.	3.7	37
8	Synthesis of novel mesoporous sulfated zirconia nanosheets derived from Zr-based metal-organic frameworks. <i>CrystEngComm</i> , 2020, 22, 44-51.	2.6	8
9	Methanation of coke oven gas over Ni-Ce/Al ₂ O ₃ catalyst using a tubular heat exchange reactor: Pilot-scale test and process optimization. <i>Energy Conversion and Management</i> , 2020, 204, 112302.	9.2	20
10	Oxidative dehydrogenation of ethylbenzene to styrene with CO ₂ over Al ₂ O ₃ -supported vanadia catalysts. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5396.	3.5	3
11	Bimetallic Ni-Co nanoparticles on SiO ₂ as robust catalyst for CO methanation: Effect of homogeneity of Ni-Co alloy. <i>Applied Catalysis B: Environmental</i> , 2020, 278, 119307.	20.2	58
12	Improved Effect of Fe on the Stable NiFe/Al ₂ O ₃ Catalyst in Low-Temperature Dry Reforming of Methane. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 17250-17258.	3.7	53
13	Synthesis of Ordered Mesoporous Zr-Al Composite Oxides with Excellent Structural and Textural Properties and Extremely High Stability. <i>Materials</i> , 2020, 13, 3036.	2.9	1
14	Flash Solid-Solid Synthesis of Silicon Oxide Nanorods. <i>Small</i> , 2020, 16, 2001435.	10.0	2
15	Enantioselectivity Enhanced on LDH Layers in Ruthenium Catalyzed Asymmetric Hydrogenation of Acetophenone. <i>ChemistrySelect</i> , 2020, 5, 4040-4045.	1.5	1
16	Influence of the Microstructure of Ni-Co Bimetallic Catalyst on CO Methanation. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 1845-1854.	3.7	21
17	Ni catalysts from laboratory investigations to chemical industry. <i>Catalysis</i> , 2020, , 24-43.	1.0	0
18	Al ₂ O ₃ support triggering highly efficient photoreduction of CO ₂ with H ₂ O on noble-metal-free CdS/Ni ₉ S ₈ /Al ₂ O ₃ . <i>Applied Catalysis B: Environmental</i> , 2019, 240, 174-181.	20.2	28

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19	Cu ₂ O nanocubes with mixed oxidation-state facets for (photo)catalytic hydrogenation of carbon dioxide. <i>Nature Catalysis</i> , 2019, 2, 889-898.	34.4	234
20	Precise control of the growth and size of Ni nanoparticles on Al ₂ O ₃ by a MOF-derived strategy. <i>CrystEngComm</i> , 2019, 21, 6709-6718.	2.6	3
21	Highly efficient and stable Ni/CeO ₂ -SiO ₂ catalyst for dry reforming of methane: Effect of interfacial structure of Ni/CeO ₂ on SiO ₂ . <i>Applied Catalysis B: Environmental</i> , 2019, 246, 221-231.	20.2	174
22	NO-CH ₄ -SCR Over Core-Shell MnH-Zeolite Composites. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1773.	2.5	4
23	Nickel@Siloxene catalytic nanosheets for high-performance CO ₂ methanation. <i>Nature Communications</i> , 2019, 10, 2608.	12.8	104
24	A Ni-based catalyst with enhanced Ni-support interaction for highly efficient CO methanation. <i>Catalysis Science and Technology</i> , 2018, 8, 3474-3483.	4.1	25
25	Solvothermal-assisted evaporation-induced self-assembly of ordered mesoporous alumina with improved performance. <i>Journal of Colloid and Interface Science</i> , 2018, 529, 432-443.	9.4	10
26	Ordered mesoporous alumina-supported vanadium oxides as an efficient catalyst for ethylbenzene dehydrogenation to styrene with CO ₂ . <i>Catalysis Communications</i> , 2018, 115, 12-16.	3.3	10
27	Synthesis of ordered macro-mesoporous Mg-Al composite oxides with high thermal stability and mechanical strength. <i>Materials Letters</i> , 2018, 224, 33-36.	2.6	3
28	Facile synthesis of micro-mesoporous alumina-zirconia nanocrystals with tailoring texture. <i>Chemical Physics Letters</i> , 2018, 709, 41-45.	2.6	8
29	Synthesis of ordered mesoporous Mg Al composite oxide-supported potassium catalysts for biodiesel production. <i>Catalysis Communications</i> , 2018, 116, 76-80.	3.3	6
30	Template effect of single/double-chain quaternary ammonium salts on the formation of mesoporous ZrO ₂ nanomaterials. <i>Ceramics International</i> , 2017, 43, 7033-7039.	4.8	2
31	A novel 3D porous modified material with cage-like structure: fabrication and its demulsification effect for efficient oil/water separation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5895-5904.	10.3	97
32	CO Methanation over Ni/SiO ₂ Catalyst Prepared by Ammonia Impregnation and Plasma Decomposition. <i>Topics in Catalysis</i> , 2017, 60, 879-889.	2.8	22
33	Structural and surface properties of highly ordered mesoporous magnesium-aluminium composite oxides derived from facile synthesis. <i>Materials Chemistry and Physics</i> , 2017, 186, 574-583.	4.0	18
34	CO Dissociation on Ni/SiO ₂ : The Formation of Different Carbon Materials. <i>Topics in Catalysis</i> , 2017, 60, 890-897.	2.8	9
35	Silylated layered double hydroxide nanosheets prepared by a large-scale synthesis method as hosts for intercalation of metal complexes. <i>Applied Catalysis A: General</i> , 2016, 522, 101-108.	4.3	12
36	Super-microporous solid base MgO-ZrO ₂ composite and their application in biodiesel production. <i>Chemical Physics Letters</i> , 2016, 663, 61-65.	2.6	7

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37	Gold on carbon and titanium oxides composites: Highly efficient and stable acetylene hydrogenation in large excess of ethylene. <i>Journal of Catalysis</i> , 2016, 344, 194-201.	6.2	26
38	Immobilization of Highly Dispersed Ag Nanoparticles on Carbon Nanotubes Using Electron-Assisted Reduction for Antibacterial Performance. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 17060-17067.	8.0	48
39	Fabrication of super-microporous nanocrystalline zirconia with high thermal stability. <i>Chemical Physics Letters</i> , 2016, 650, 98-101.	2.6	2
40	A simple approach to the synthesis of Cu _{1.8} S dendrites with thiamine hydrochloride as a sulfur source and structure-directing agent. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 881-885.	2.8	2
41	Facile synthesis of highly ordered mesoporous cobalt–alumina catalysts and their application in liquid phase selective oxidation of styrene. <i>RSC Advances</i> , 2015, 5, 98377-98390.	3.6	19
42	Synthesis of mesoporous and tetragonal zirconia with inherited morphology from metal–organic frameworks. <i>CrystEngComm</i> , 2015, 17, 6426-6433.	2.6	53
43	Tunable Ag ⁺ ion release from Ag@C for antibacterial and antifouling performances. <i>RSC Advances</i> , 2015, 5, 39384-39391.	3.6	13
44	Dielectric barrier discharge plasma for preparation of Ni-based catalysts with enhanced coke resistance: Current status and perspective. <i>Catalysis Today</i> , 2015, 256, 29-40.	4.4	78
45	Facile synthesis of highly ordered mesoporous chromium–alumina catalysts with improved catalytic activity and stability. <i>Journal of Materials Research</i> , 2014, 29, 811-819.	2.6	12
46	Preparation and antibacterial property of silver decorated carbon microspheres. <i>Applied Surface Science</i> , 2014, 292, 480-487.	6.1	24
47	A super-microporous zirconia–alumina nanomaterial with high thermal stability. <i>Materials Letters</i> , 2014, 136, 183-186.	2.6	7
48	Stable Au catalysts for selective hydrogenation of acetylene in ethylene. <i>Applied Catalysis A: General</i> , 2014, 487, 36-44.	4.3	32
49	Facile synthesis of highly ordered mesoporous alumina with high thermal and hydrothermal stability using zirconia as promoter. <i>Materials Letters</i> , 2013, 97, 27-30.	2.6	26
50	Enhanced sulfur resistance of Ni/SiO ₂ catalyst for methanation via the plasma decomposition of nickel precursor. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 12132.	2.8	33
51	Effect of the catalyst structure on the formation of carbon nanotubes over Ni/MgO catalyst. <i>Diamond and Related Materials</i> , 2013, 31, 50-57.	3.9	27
52	Effect of Catalyst Structure on Growth and Reactivity of Carbon Nanofibers over Ni/MgAl ₂ O ₄ . <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 8182-8188.	3.7	34
53	Methanation over Ni/SiO ₂ : Effect of the catalyst preparation methodologies. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 2283-2291.	7.1	172
54	A systematic study of long-range ordered 3D-SBA-15 materials by electron tomography. <i>New Journal of Chemistry</i> , 2011, 35, 2456.	2.8	24

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55	Effect of SO ₂ on Co sites for NO-SCR by CH ₄ over Co-Beta. <i>Catalysis Today</i> , 2011, 175, 12-17.	4.4	29
56	Selective Catalytic Reduction of NO in Excess Oxygen by Methane over Mn/ZSM-5 Catalysts. <i>Chinese Journal of Catalysis</i> , 2010, 31, 1107-1114.	14.0	12