Jian Hua Zhu

List of Publications by Year
in descending order

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112 papers	2,842 citations	147801 31 h-index	223800 46 g-index
112 all docs	112 docs citations	112 times ranked	2548 citing authors

#	Article	IF	Citations
1	Insight into the liquid adsorption of tobacco specific nitrosamines on ZIF-8. Microporous and Mesoporous Materials, 2022, 333, 111730.	4.4	7
2	New environmental selective micro-mesoporous carbonaceous sorbent for eliminating tobacco specific nitrosamines and lead ion. Microporous and Mesoporous Materials, 2021, 318, 111037.	4.4	4
3	New thermal releaser of menthol: Cellulose acetate film covered amorphous silica. Flavour and Fragrance Journal, 2021, 36, 457-464.	2.6	2
4	Sustainable sorbent derived from discarded cigarette butts for elimination of tobacco specific nitrosamines carcinogen. Environmental Technology and Innovation, 2021, 24, 101825.	6.1	5
5	New versatile zincic sorbent for tobacco specific nitrosamines and lead ion capture. Journal of Hazardous Materials, 2020, 383, 121188.	12.4	6
6	Fabricating efficient porous sorbents to capture organophosphorus pesticide in solution. Microporous and Mesoporous Materials, 2020, 294, 109911.	4.4	21
7	Fabrication of Strong Solid Base FeOâ€“MgO for Warm CO₂ Capture. Clean - Soil, Air, Water, 2019, 47, 1800447.	1.1	11
8	A query on the Mg 2p binding energy of MgO. Research on Chemical Intermediates, 2019, 45, 947-950.	2.7	28
9	New efficient selective adsorbent of tobacco specific nitrosamines derived from discarded cigarette filters. Microporous and Mesoporous Materials, 2019, 284, 393-402.	4.4	23
10	Insight into the efficient TSNA capturer derived from zeolite HÎ². Chemical Engineering Journal, 2019, 369, 480-488.	12.7	4
11	Efficiently capturing tobacco specific nitrosamines with HÎ² zeolite in solution. Journal of Hazardous Materials, 2019, 365, 196-204.	12.4	16
12	New activated carbon sorbent with the zeolite-like selectivity to capture tobacco-specific nitrosamines in solution. Chemical Engineering Journal, 2018, 339, 170-179.	12.7	23
13	Novel mesoporous composite with zeolite-like selectivity to capture tobacco specific nitrosamine NNK. Chemical Engineering Journal, 2018, 332, 331-339.	12.7	16
14	New shape-selectivity discovered on graphene-based materials in catching tobacco specific nitrosamines. Journal of Hazardous Materials, 2018, 358, 234-242.	12.4	16
15	New sucker-type precise capturer of tobacco specific nitrosamines derived from the SBA-15 in situ modified with polyaniline. Chemical Engineering Journal, 2018, 354, 1174-1184.	12.7	15
16	Liquid adsorption and catalytic degradation of 4-methylnitrosamino-1-3-pyridyl-1-butanone (NNK) by zeolite. Microporous and Mesoporous Materials, 2017, 243, 39-46.	4.4	17
17	Impact of proton: Capturing tobacco specific N -nitrosamines (TSNA) with HZSM-5 zeolite. Chemical Engineering Journal, 2017, 323, 180-190.	12.7	14
18	Creating an Optimal Microenvironment within Mesoporous Silica MCM-41 for Capture of Tobacco-Specific Nitrosamines in Solution. ACS Applied Materials & Interfaces, 2017, 9, 26805-26817.	8.0	19

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19	Insight Into the CO₂ Capturer Derived From Graphene/MgO Composite. Clean - Soil, Air, Water, 2017, 45, 1600755.	1.1	4
20	Acquiring an Efficient Warmâ€CO₂ Sorbent from Advanced Pyrolysis of Magnesium Oxalate. ChemNanoMat, 2017, 3, 822-832.	2.8	10
21	Fabricating hydrophobic nanoparticles within mesoporous channel of silica for efficient TSNA removal. Microporous and Mesoporous Materials, 2017, 237, 237-245.	4.4	9
22	In Situ Loading of Drugs into Mesoporous Silica SBAâ€15. Chemistry - A European Journal, 2016, 22, 6294-6301.	3.3	34
23	Capturing nitrosamines in aqueous solution by composited super-hydrophobic silicic xerogel. Microporous and Mesoporous Materials, 2016, 227, 161-168.	4.4	6
24	Facilely Fabricating Multifunctional N-Enriched Carbon. ACS Applied Materials & Interfaces, 2016, 8, 1252-1263.	8.0	17
25	Capturing tobacco specific N-nitrosamines (TSNA) in industrial tobacco extract solution by ZnO modified activated carbon. Microporous and Mesoporous Materials, 2016, 222, 160-168.	4.4	20
26	Novel menthol releaser derived from as-synthesized mesoporous silica. RSC Advances, 2015, 5, 5494-5500.	3.6	7
27	Hierarchical Composites to Reduce N-Nitrosamines in Cigarette Smoke. Materials, 2015, 8, 1325-1340.	2.9	6
28	Facile synthesis of high photocatalytic active porous g-C3N4 with ZnCl2 template. Journal of Colloid and Interface Science, 2015, 451, 108-116.	9.4	41
29	Novel fabrication of an efficient solid base: carbon-doped MgOâ€“ZnO composite and its CO₂ capture at 473 K. Journal of Materials Chemistry A, 2015, 3, 18535-18545.	10.3	35
30	Liquid adsorption of tobacco specific N-nitrosamines by zeolite and activated carbon. Microporous and Mesoporous Materials, 2014, 200, 260-268.	4.4	28
31	Trapping tobacco specific N-nitrosamines in Chinese-Virginia type tobacco extracting solution by porous material. Journal of Porous Materials, 2014, 21, 311-320.	2.6	22
32	Cleaning carcinogenic nitrosamines with zeolites. Environmental Chemistry Letters, 2014, 12, 139-152.	16.2	24
33	Fabricating a novel porous releaser of heparin. RSC Advances, 2014, 4, 49908-49915.	3.6	1
34	Fabricating a sustained releaser of heparin using SBA-15 mesoporous silica. Journal of Materials Chemistry B, 2014, 2, 92-101.	5.8	15
35	Versatile drug releaser derived from the Ti-substituted mesoporous silica SBA-15. Microporous and Mesoporous Materials, 2014, 199, 40-49.	4.4	27
36	A novel porous MgO sorbent fabricated through carbon insertion. Journal of Materials Chemistry A, 2014, 2, 12014-12022.	10.3	41

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37	Novel CO₂-Capture Derived from the Basic Ionic Liquids Orientated on Mesoporous Materials. ACS Applied Materials & Interfaces, 2014, 6, 12947-12955.	8.0	55
38	Multiple functionalization of SBA-15 mesoporous silica in one-pot: fabricating an aluminum-containing plugged composite for sustained heparin release. Journal of Materials Chemistry B, 2013, 1, 3897.	5.8	25
39	Fabrication of a new MgO/C sorbent for CO2 capture at elevated temperature. Journal of Materials Chemistry A, 2013, 1, 12919.	10.3	61
40	Novel selective catalyst derived from uniform clustered NaY zeolite microspheres. Journal of Materials Chemistry A, 2013, 1, 6849.	10.3	14
41	Utilizing acid immersion to elevate the performance of zeolite in liquid adsorption of Nâ€²-nitrosonornicotine (NNN). Solid State Sciences, 2013, 16, 143-151.	3.2	11
42	Applying heterogeneous catalysis to health care: In situ elimination of tobacco-specific nitrosamines (TSNAs) in smoke by molecular sieves. Catalysis Today, 2013, 212, 52-61.	4.4	32
43	Facile template-free synthesis of porous g-C3N4 with high photocatalytic performance under visible light. RSC Advances, 2013, 3, 9465.	3.6	63
44	One-pot synthesis of foam-like magnesia and its performance in CO2 adsorption. Microporous and Mesoporous Materials, 2013, 169, 112-119.	4.4	58
45	Catalytic degradation of tobacco-specific nitrosamines by ferric zeolite. Applied Catalysis B: Environmental, 2013, 129, 301-308.	20.2	24
46	One-pot synthesis of a hierarchical PMO monolith with superior performance in enzyme immobilization. Journal of Materials Chemistry B, 2013, 1, 1738.	5.8	18
47	Developing Efficient Amine-Containing Mesoporous CO₂Adsorbent. ACS Symposium Series, 2012, , 293-316.	0.5	1
48	Sustained Release of Heparin on Enlarged-Pore and Functionalized MCM-41. ACS Applied Materials & Interfaces, 2012, 4, 4113-4122.	8.0	38
49	Significant Promotion of Morphology in Fabricating Efficient Environment Protector. Chinese Journal of Chemistry, 2012, 30, 2073-2078.	4.9	3
50	Novel selective adsorbent derived from hierarchical rockery-like MCM-41 monolith. Journal of Materials Chemistry, 2012, 22, 23633.	6.7	15
51	Smallâ€Caliber Vascular Prosthesis Prototype Based on Controlled Release of Heparin from Mesochannels and Its Enhanced Biocompatibility. Small, 2012, 8, 1373-1383.	10.0	10
52	Promoting immobilization and catalytic activity of horseradish peroxidase on mesoporous silica through template micelles. Journal of Colloid and Interface Science, 2012, 377, 497-503.	9.4	17
53	Facile synthesis of new periodic mesoporous organosilica and its performance of immobilizing horseradish peroxidase. Microporous and Mesoporous Materials, 2012, 155, 24-33.	4.4	24
54	Efficient MgO-based mesoporous CO2 trapper and its performance at high temperature. Journal of Hazardous Materials, 2012, 203-204, 341-347.	12.4	80

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55	Elevating enzyme activity through the immobilization of horseradish peroxidase onto periodic mesoporous organosilicas. New Journal of Chemistry, 2011, 35, 1867.	2.8	27
56	One-pot synthesis of novel ferric cubic mesoporous silica (Im3m symmetry) and its highly efficient adsorption performance. Journal of Materials Chemistry, 2011, 21, 13895.	6.7	9
57	Controlling the primary particle evolution process towards silica monoliths with tunable hierarchical structure. Journal of Colloid and Interface Science, 2011, 364, 594-604.	9.4	20
58	Novel phenol capturer derived from the as-synthesized MCM-41. Journal of Hazardous Materials, 2011, 190, 87-93.	12.4	22
59	3D net-linked mesoporous silica monolith: New environmental adsorbent and catalyst. Catalysis Today, 2011, 166, 39-46.	4.4	15
60	Fabrication of hierarchical channel wall in Al-MCM-41 mesoporous materials to promote the efficiency of copper modifier. Chemical Engineering Journal, 2011, 169, 390-398.	12.7	5
61	Adsorption of nitrosamines by mesoporous zeolite. Journal of Colloid and Interface Science, 2010, 348, 621-627.	9.4	11
62	Effective nitrosamines trap derived from the in situ carbonized mesoporous silica MCM-41. Journal of Hazardous Materials, 2010, 176, 602-608.	12.4	17
63	Trapping the lead ion in multi-components aqueous solution by natural clinoptilolite. Journal of Hazardous Materials, 2010, 180, 282-288.	12.4	37
64	Capturing Nitrosamines by Zeolite MCM-22: Effect of Zeolite Structure and Morphology on Adsorption. Journal of Physical Chemistry C, 2010, 114, 9588-9595.	3.1	19
65	Fabrication of Hierarchical Channel Wall in Al-MCM-41 Mesoporous Materials to Enhance Their Adsorptive Capability: Why and How?. Journal of Physical Chemistry C, 2010, 114, 8431-8439.	3.1	17
66	Facile Method To Synthesize Mesoporous Multimetal Oxides (ATiO₃, A = Sr, Ba) with Large Specific Surface Areas and Crystalline Pore walls. Chemistry of Materials, 2010, 22, 1276-1278.	6.7	45
67	New Strategy to Synthesis of Hierarchical Mesoporous Zeolites. Chemistry of Materials, 2010, 22, 2442-2450.	6.7	125
68	One-pot synthesis of the amine-modified meso-structured monolith CO2 adsorbent. Journal of Materials Chemistry, 2010, 20, 2840.	6.7	39
69	Moisture-saturated zeolites â€“ A new strategy for releasing nitric oxide. New Journal of Chemistry, 2010, 34, 2897.	2.8	12
70	Functional Mesoporous Material Derived from 3D Netâ€Linked SBAâ€15. Chemistry - A European Journal, 2009, 15, 6748-6757.	3.3	26
71	Capturing 1,3-butadiene by the highly ordered Al-containing SBA-15. Journal of Hazardous Materials, 2009, 171, 378-385.	12.4	14
72	Capturing nitrosamines in tobacco-extract solution by hydrophobic mesoporous silica. Journal of Hazardous Materials, 2009, 172, 1482-1490.	12.4	43

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73	Generating Basic Sites on Zeolite Y by Potassium Species Modification: Effect of Base Precursor. Catalysis Letters, 2009, 132, 218-224.	2.6	25
74	Adsorption of nitrogen oxides by the moisture-saturated zeolites in gas stream. Journal of Hazardous Materials, 2009, 162, 866-873.	12.4	18
75	Eliminating carcinogenic pollutants in environment: Reducing the tobacco specific nitrosamines level of smoke by zeolite-like calcosilicate. Journal of Hazardous Materials, 2009, 169, 1034-1039.	12.4	41
76	Selective adsorption of zeolite towards nitrosamine in organic solution. Microporous and Mesoporous Materials, 2009, 120, 381-388.	4.4	21
77	Creating the adsorptive sites with high performance toward nitrosamines in mesoporous silica MCM-41 by alumina modifier. Microporous and Mesoporous Materials, 2009, 126, 143-151.	4.4	16
78	The metal-incorporated mesoporous carbon with high performance in capture and degradation of volatile nitrosamines. Catalysis Today, 2009, 148, 88-96.	4.4	7
79	Synthesis of Largeâ€Pore Ureaâ€Bridged Periodic Mesoporous Organosilicas. Chemistry - an Asian Journal, 2009, 4, 587-593.	3.3	18
80	New Strategy to Reduce the Harmful Effects of Smoking: Reducing the Level of Nâ€nitrosamines in Mainstream Smoke by NaA Zeolite and In vitro and In vivo Investigations. Clean - Soil, Air, Water, 2008, 36, 270-278.	1.1	16
81	Microwaveâ€induced degradation of nitrosamines trapped in zeolites. Asia-Pacific Journal of Chemical Engineering, 2008, 3, 481-488.	1.5	8
82	Adjusting the hostâ€“guest interaction to promote KNO3 decomposition and strong basicity generation on zeolite NaY. Microporous and Mesoporous Materials, 2008, 116, 498-503.	4.4	19
83	Eliminating carcinogens in environment: Degradation of volatile nitrosamines by Zeolites Y and ZSM-5. Microporous and Mesoporous Materials, 2008, 109, 436-444.	4.4	34
84	A facile way to synthesize mesoporous silica with Ia3d cubic symmetry. Materials Letters, 2008, 62, 422-424.	2.6	8
85	Directly transforming as-synthesized MCM-41 to mesoporous MFI zeolite. Journal of Materials Chemistry, 2008, 18, 2044.	6.7	68
86	Capturing Nitrosamines by Zeolite A:â€‰ Molecular Recognition in Subnanometer Space. Journal of Physical Chemistry C, 2008, 112, 6740-6748.	3.1	25
87	IMPROVEMENT OF MESOPOROUS SILICA AS AN ADSORBENT FOR NITROSAMINES BY DEVELOPMENT OF HIERARCHICAL STRUCTURE. , 2008, , .		0
88	Preparation of Mesostructured Lamellar Zirconia. Materials and Manufacturing Processes, 2007, 22, 705-709.	4.7	5
89	Attempts to Synthesize Zeolitic Composites from Stellerite. Materials and Manufacturing Processes, 2007, 22, 700-704.	4.7	3
90	Promoting Zeolite NaY as Efficient Nitrosamines Trap by Cobalt Oxide Modification. Journal of Physical Chemistry C, 2007, 111, 538-548.	3.1	16

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91	Capturing Volatile Nitrosamines in Gas Stream by Zeolites:â€‰ Why and How. Journal of Physical Chemistry C, 2007, 111, 4347-4357.	3.1	50
92	Capturing Nitrosamines in Environment by Zeolite. Materials and Manufacturing Processes, 2007, 22, 750-757.	4.7	12
93	Removal of carcinogens in environment: Adsorption and degradation of Nâ€²-nitrosonornicotine (NNN) in zeolites. Microporous and Mesoporous Materials, 2007, 103, 352-362.	4.4	44
94	Fabrication of photoluminescent ZnO/SBA-15 through directly dispersing zinc nitrate into the as-prepared mesoporous silica occluded with template. Journal of Materials Chemistry, 2006, 16, 1536.	6.7	168
95	Solvent-free surface functionalized SBA-15 as a versatile trap of nitrosamines. Journal of Materials Chemistry, 2006, 16, 1520.	6.7	43
96	Generating Superbasic Sites on Mesoporous Silica SBA-15. Chemistry of Materials, 2006, 18, 4600-4608.	6.7	78
97	Adsorption of nitrosamines in acidic solution by zeolites. Chemosphere, 2005, 58, 109-114.	8.2	52
98	Novel Amorphous Functional Materials for Trapping Nitrosamines. Environmental Science & Technology, 2005, 39, 7254-7259.	10.0	26
99	Adsorption and room temperature degradation of N-nitrosodiphenylamine on zeolites. New Journal of Chemistry, 2004, 28, 807.	2.8	34
100	Removal of volatile nitrosamines with copper modified zeolitesPreliminary communication: see ref. 42.. New Journal of Chemistry, 2004, 28, 244.	2.8	45
101	Removing nitrosamines from mainstream smoke of cigarettes by zeolites. Microporous and Mesoporous Materials, 2003, 60, 125-138.	4.4	114
102	Trapping volatile nitrosamines with copper incorporated zeolitesElectronic supplementary information (ESI) available: experimental details. See http://www.rsc.org/suppdata/cc/b3/b304322c/. Chemical Communications, 2003, , 1894.	4.1	37
103	Dispersion of Potassium Nitrate and the Resulting Strong Basicity on Zirconia. Chemistry of Materials, 2001, 13, 670-677.	6.7	64
104	Strong selective adsorption ofN-nitrosamines on zeolites. Science Bulletin, 2001, 46, 705-707.	1.7	8
105	Microwave-Assisted Synthesis of Dimethyl Carbonate. Reaction Kinetics and Catalysis Letters, 2001, 74, 23-27.	0.6	9
106	Attempts to create new shape-selective solid strong base catalysts. Catalysis Today, 1999, 51, 103-111.	4.4	47
107	Preparing strong basic zeolite molecular sieve catalytic materials. Science Bulletin, 1999, 44, 1926-1934.	1.7	5
108	Study on the â€œinduction periodâ€•of toluene ethylation performed on HZSM-5 zeolite catalysts. Reaction Kinetics and Catalysis Letters, 1999, 66, 105-112.	0.6	1

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109	Decomposition of isopropanol: A sensitive probe reaction to reveal the influence of zeolite on the catalytic function of supported Pt. Reaction Kinetics and Catalysis Letters, 1998, 63, 67-73.	0.6	2
110	Microwave radiation: A novel way to prepare new Al2O3-Nay shape-selective catalytic materials. Science Bulletin, 1998, 43, 703-704.	1.7	4
111	New solid superbases: potassium nitrate supported on porous materials. Science Bulletin, 1997, 42, 1493-1494.	1.7	0
112	Different behaviors of HZSM-5 zeolites synthesized in different procedures in loading of MoCl5 and methanol to gasoline (MTG) reaction. Reaction Kinetics and Catalysis Letters, 1997, 62, 39-46.	0.6	5