Zhijian Tian

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5311536/publications.pdf

Version: 2024-02-01

107 papers	3,428 citations	109321 35 h-index	161849 54 g-index
113 all docs	113 docs citations	113 times ranked	3522 citing authors

#	Article	IF	Citations
1	Production of hydrogen by aqueous-phase reforming of glycerol. International Journal of Hydrogen Energy, 2008, 33, 6657-6666.	7.1	277
2	Structure-Directing Role of Amines in the Ionothermal Synthesis. Journal of the American Chemical Society, 2006, 128, 7432-7433.	13.7	124
3	Oneâ€Step Hydrotreatment of Vegetable Oil to Produce High Quality Dieselâ€Range Alkanes. ChemSusChem, 2012, 5, 1974-1983.	6.8	123
4	A temperature programmed desorption investigation on the interaction of Ba0.5Sr0.5Co0.8Fe0.2O3â^Î´ perovskite oxides with CO2 in the absence and presence of H2O and O2. Applied Catalysis B: Environmental, 2008, 80, 24-31.	20.2	119
5	Effect of Water on the Ionothermal Synthesis of Molecular Sieves. Journal of the American Chemical Society, 2008, 130, 8120-8121.	13.7	111
6	Ionothermal Synthesis of an Aluminophosphate Molecular Sieve with 20â€Ring Pore Openings. Angewandte Chemie - International Edition, 2010, 49, 5367-5370.	13.8	107
7	Remarkable Improvement on the Methane Aromatization Reaction:â€‰ A Highly Selective and Coking-Resistant Catalyst. Journal of Physical Chemistry B, 2002, 106, 8524-8530.	2.6	104
8	Facile hydrothermal synthesis of MoS₂nano-sheets with controllable structures and enhanced catalytic performance for anthracene hydrogenation. RSC Advances, 2016, 6, 71534-71542.	3.6	90
9	Biomassâ€Derived Grapheneâ€like Carbon: Efficient Metalâ€Free Carbocatalysts for Epoxidation. Angewandte Chemie - International Edition, 2018, 57, 16898-16902.	13.8	83
10	High quality diesel-range alkanes production via a single-step hydrotreatment of vegetable oil over Ni/zeolite catalyst. Catalysis Today, 2014, 234, 153-160.	4.4	70
11	Design and preparation of efficient hydroisomerization catalysts by the formation of stable SAPO-11 molecular sieve nanosheets with 10â€“20 nm thickness and partially blocked acidic sites. Chemical Communications, 2017, 53, 4942-4945.	4.1	69
12	Selective enrichment of endogenous peptides by chemically modified porous nanoparticles for peptidome analysis. Journal of Chromatography A, 2009, 1216, 1270-1278.	3.7	59
13	Highly mesoporous SAPO-11 molecular sieves with tunable acidity: facile synthesis, formation mechanism and catalytic performance in hydroisomerization of n-dodecane. Catalysis Science and Technology, 2017, 7, 5775-5784.	4.1	57
14	A high coking-resistance catalyst for methane aromatization. Chemical Communications, 2001, , 2048-2049.	4.1	56
15	The effect of lanthanum doping on activity of Zn-Al spinel for transesterification. Applied Catalysis B: Environmental, 2013, 136-137, 210-217.	20.2	55
16	New Insights into the Role of Amines in the Synthesis of Molecular Sieves in Ionic Liquids. Chemistry - A European Journal, 2009, 15, 5348-5354.	3.3	54
17	Direct conversion of cellulose into hydrogen by aqueous-phase reforming process. Catalysis Communications, 2010, 11, 522-526.	3.3	54
18	Basicities and transesterification activities of Znâ€“Al hydrotalcites-derived solid bases. Green Chemistry, 2014, 16, 2604-2613.	9.0	54

#	Article	IF	Citations
19	Beyond the Limits of X-ray Powder Diffraction: Description of the Nonperiodic Subnetworks in Aluminophosphate-Cloverite by NMR Crystallography. Chemistry of Materials, 2011, 23, 4799-4809.	6.7	53
20	Hydrothermal Carbon Enriched with Oxygenated Groups from Biomass Glucose as an Efficient Carbocatalyst. Angewandte Chemie - International Edition, 2017, 56, 600-604.	13.8	51
21	Ionothermal Synthesis of Aluminophosphate Molecular Sieve Membranes through Substrate Surface Conversion. Angewandte Chemie - International Edition, 2012, 51, 4397-4400.	13.8	48
22	Catalytically active and hierarchically porous SAPO-11 zeolite synthesized in the presence of polyhexamethylene biguanidine. Journal of Colloid and Interface Science, 2014, 418, 193-199.	9.4	48
23	Surfactant-assisted hydrothermally synthesized MoS 2 samples with controllable morphologies and structures for anthracene hydrogenation. Chinese Journal of Catalysis, 2017, 38, 597-606.	14.0	48
24	Preparation of Mn substituted La-hexaaluminate catalysts by using supercritical drying. Catalysis Today, 2003, 83, 213-222.	4.4	45
25	Preparation of CdSâ€“SiO2 core-shell particles and hollow SiO2 spheres ranging from nanometers to microns in the nonionic reverse microemulsions. Catalysis Today, 2004, 93-95, 651-657.	4.4	45
26	Sn-Modified Pt/SAPO-11 Catalysts for Selective Hydroisomerization ofn-Paraffins. Energy & Fuels, 2004, 18, 1266-1271.	5.1	44
27	Characterization and Catalytic Properties of the Ni/Al2O3 Catalysts for Aqueous-phase Reforming of Glucose. Catalysis Letters, 2009, 129, 250-257.	2.6	42
28	Effects of Pt site distributions on the catalytic performance of Pt/SAPO-11 for n-dodecane hydroisomerization. Catalysis Today, 2018, 316, 43-50.	4.4	40
29	Designing MoS₂ nanocatalysts with increased exposure of active edge sites for anthracene hydrogenation reaction. Catalysis Science and Technology, 2017, 7, 2998-3007.	4.1	39
30	Hydroisomerization of n-dodecane over Pt/MeAPO-11 (Me = Mg, Mn, Co or Zn) catalysts. Catalysis Communications, 2007, 8, 1232-1238.	3.3	38
31	Influence of reaction conditions on one-step hydrotreatment of lipids in the production of iso-alkanes over Pt/SAPO-11. Chinese Journal of Catalysis, 2013, 34, 1128-1138.	14.0	37
32	Synthesis of ZIF-8 in a deep eutectic solvent using cooling-induced crystallisation. Microporous and Mesoporous Materials, 2014, 195, 50-59.	4.4	36
33	Facile Synthesis of Hierarchical Nanosized Singleâ€Crystal Aluminophosphate Molecular Sieves from Highly Homogeneous and Concentrated Precursors. Angewandte Chemie - International Edition, 2020, 59, 3455-3459.	13.8	36
34	Hydroisomerization performance of platinum supported on ZSM-22/ZSM-23 intergrowth zeolite catalyst. Petroleum Science, 2013, 10, 242-250.	4.9	35
35	Multinuclear Solid-State NMR Studies on the Formation Mechanism of Aluminophosphate Molecular Sieves in Ionic Liquids. Journal of Physical Chemistry C, 2013, 117, 5848-5854.	3.1	34
36	Ionothermal synthesis of gallophosphate molecular sieves in 1-alkyl-3-methyl imidazolium bromide ionic liquids. Microporous and Mesoporous Materials, 2009, 120, 278-284.	4.4	33

#	Article	IF	Citations
37	Methane aromatization in the absence of an added oxidant and the bench scale reaction test. Catalysis Letters, 1999, 62, 215-220.	2.6	32
38	The effect of Fe on Pt particle states in Pt/KL catalysts. Applied Catalysis A: General, 2015, 492, 31-37.	4.3	32
39	Coupled hydrogenation and ring opening of tetralin on potassium modified Pt/USY catalysts. Catalysis Letters, 2007, 116, 149-154.	2.6	31
40	Mixed template effect adjusted by amine concentration in ionothermal synthesis of molecular sieves. Dalton Transactions, 2010, 39, 1441-1443.	3.3	31
41	Hydroisomerization of Long-Chain Alkane Over Pt/SAPO-11 Catalysts Synthesized from Nonaqueous Media. Catalysis Letters, 2005, 103, 109-116.	2.6	29
42	A novel approach to synthesize ZSM-23 zeolite involving N,N-dimethylformamide. Microporous and Mesoporous Materials, 2010, 134, 203-209.	4.4	28
43	Skeletal isomerization of n -pentane: A comparative study on catalytic properties of Pt/WO x â€“ZrO 2 and Pt/ZSM-22. Applied Catalysis A: General, 2017, 537, 59-65.	4.3	28
44	Single isomerization selectivity of glucose in methanol over Sn-BEC zeolite of homogenous Sn distribution. Microporous and Mesoporous Materials, 2017, 247, 158-165.	4.4	28
45	Pt/ZSMâ€22 with Partially Filled Micropore Channels as Excellent Shapeâ€Selective Hydroisomerization Catalyst. ChemCatChem, 2019, 11, 1431-1436.	3.7	26
46	Ionothermal synthesis process for aluminophosphate molecular sieves in the mixed water/ionic liquid system. Dalton Transactions, 2012, 41, 990-994.	3.3	25
47	Cooperative structure-directing effect in the synthesis of aluminophosphate molecular sieves in ionic liquids. Physical Chemistry Chemical Physics, 2010, 12, 2443.	2.8	24
48	Co-templating ionothermal synthesis and structure characterization of two new 2D layered aluminophosphates. Dalton Transactions, 2012, 41, 12408.	3.3	24
49	Research Progress in Ionothermal Synthesis of Molecular Sieves. Chinese Journal of Catalysis, 2012, 33, 39-50.	14.0	24
50	Synthesis of the high-surface-area CexBa1â^'xMnAl11Oycatalyst in reverse microemulsions using inexpensive inorganic salts as precursors. Green Chemistry, 2005, 7, 493-499.	9.0	23
51	Production of COx-free Hydrogen by Alkali Enhanced Hydrothermal Catalytic Reforming of Biomass-derived Alcohols. Chemistry Letters, 2006, 35, 216-217.	1.3	23
52	Ionothermal synthesis of AlPO4 molecular sieves in the presence of quaternary ammonium cation. Materials Letters, 2010, 64, 2118-2121.	2.6	23
53	Ionothermal synthesis of AlPO4-34 molecular sieves using heterocyclic aromatic amine as the structure directing agent. Materials Letters, 2010, 64, 2384-2387.	2.6	23
54	Synthesis of polymorph A-enriched beta zeolites in a HF-concentrated system. Dalton Transactions, 2016, 45, 6634-6640.	3.3	23

#	Article	IF	Citations
55	The application of Zr incorporated Zn-Al dehydrated hydrotalcites as solid base in transesterification. Catalysis Today, 2014, 234, 161-166.	4.4	22
56	Ionothermal synthesis of zeolitic imidazolate frameworks and the synthesis dissolution-crystallization mechanism. Chinese Journal of Catalysis, 2015, 36, 855-865.	14.0	22
57	Confined-space synthesis of hierarchical MgAPO-11 molecular sieves with good hydroisomerization performance. Microporous and Mesoporous Materials, 2018, 262, 182-190.	4.4	22
58	Performance of Pt/MgAPO-11 Catalysts in the Hydroisomerization of n-dodecane. Catalysis Letters, 2006, 109, 139-145.	2.6	20
59	Formation of a novel type of reverse microemulsion system and its application in synthesis of the nanostructured La0.95Ba0.05MnAl11O19 catalystElectronic supplementary information (ESI) available: Table 1, Figs. 1b, 5, 6 and 7. See http://www.rsc.org/suppdata/cc/b4/b404133j/. Chemical Communications, 2004, , 1858.	4.1	19
60	Ionothermal syntheses and characterizations of cobalt-substituted extra-large pore aluminophosphate molecular sieves with -CLO topology. Microporous and Mesoporous Materials, 2014, 198, 153-160.	4.4	18
61	Ionothermal synthesis of LTA-type aluminophosphate molecular sieve membranes with gas separation performance. Microporous and Mesoporous Materials, 2016, 228, 45-53.	4.4	18
62	Quasi-Single-Layer MoS2 on MoS2/TiO2 Nanoparticles for Anthracene Hydrogenation. ACS Applied Nano Materials, 2019, 2, 5096-5107.	5.0	18
63	Synthesis of ZSM-23/ZSM-22 intergrowth zeolite with a novel dual-template strategy. Materials Research Bulletin, 2009, 44, 2258-2261.	5.2	17
64	Synthesis of zeolite Beta containing ultra-small CoO particles for ethylbenzene oxidation. Chinese Journal of Catalysis, 2017, 38, 1207-1215.	14.0	17
65	Ionic liquid assisted hydrothermal synthesis of hollow core/shell MoS2 microspheres. Materials Letters, 2015, 160, 550-554.	2.6	16
66	Layer-structure adjustable MoS2 catalysts for the slurry-phase hydrogenation of polycyclic aromatic hydrocarbons. Journal of Energy Chemistry, 2021, 63, 294-304.	12.9	15
67	Synthesis of nano-sized BaAl12O19 via nonionic reverse microemulsion method: I. Effect of the microemulsion structure on the paticle morphology. Studies in Surface Science and Catalysis, 2004, 147, 493-498.	1.5	14
68	Preparation of Ce-modified Raney Ni Catalysts and Their Application in Aqueous-Phase Reforming of Cellulose. Catalysis Letters, 2011, 141, 1851-1858.	2.6	14
69	Ionic liquid assisted hydrothermal synthesis of MoS₂ double-shell polyhedral cages with enhanced catalytic hydrogenation activities. RSC Advances, 2017, 7, 23523-23529.	3.6	13
70	Microemulsion-mediated hydrothermal synthesis of flower-like MoS2 nanomaterials with enhanced catalytic activities for anthracene hydrogenation. Frontiers of Chemical Science and Engineering, 2018, 12, 32-42.	4.4	13
71	Highly Effective Pd/MgO/Î³-Al₂O₃ Catalysts for CO Oxidative Coupling to Dimethyl Oxalate: The Effect of MgO Coating on Î³-Al₂O₃. ACS Applied Materials & Interfaces, 2021, 13, 28064-28071.	8.0	12
72	Ionothermal synthesis of a CHA-type aluminophosphate molecular sieve membrane and its formation mechanism. Microporous and Mesoporous Materials, 2015, 217, 54-62.	4.4	11

#	Article	IF	Citations
73	Research and Development of Hydroisomerization and Hydrocracking Catalysts in Dalian Institute of Chemical Physics. Chinese Journal of Catalysis, 2009, 30, 705-710.	14.0	10
74	Crystal structure stability and catalytic activity of magnetoplumbite (MP) catalyst doped with Mn and Mg. Journal of Non-Crystalline Solids, 2007, 353, 4806-4812.	3.1	9
75	Effect of the flowing gases of steam and CO2 on the texture and catalytic activity for methane combustion of MgO powders. Microporous and Mesoporous Materials, 2008, 111, 620-626.	4.4	9
76	Synthesis of discrete aluminophosphate â€“CLO nanocrystals in a eutectic mixture. Journal of Colloid and Interface Science, 2015, 451, 117-124.	9.4	9
77	Morphology transcription process from CMC micelles to inorganogel and its effect on the properties of alumina particle. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 116, 215-220.	3.5	8
78	Ionothermal syntheses of transition-metal-substituted aluminophosphate molecular sieves in the presence of tetraalkylammonium hydroxides. Microporous and Mesoporous Materials, 2015, 210, 125-132.	4.4	8
79	Highly Efficient MoS₂ Nanocatalysts for Slurry-Phase Hydrogenation of Unconventional Feedstocks into Fuels. Energy & Fuels, 2021, 35, 2590-2601.	5.1	8
80	Combination of CH4 oxidative coupling reaction with C2H6 oxidative dehydrogenation by CO2 to C2H4. Fuel, 2002, 81, 1593-1597.	6.4	7
81	Hydrothermal synthesis of LA-MN-Hexaaluminates for the catalytic combustion of methane. Korean Journal of Chemical Engineering, 2003, 20, 217-221.	2.7	7
82	Ionothermal synthesis and crystal structure of a new layered nickel(II) diphosphate, DRM-1. Inorganic Chemistry Communication, 2010, 13, 1357-1360.	3.9	7
83	Synthesis of SAPO-11 and MgAPO-11 Molecular Sieves in Waterâ€“Butanol Biphase Media. Chinese Journal of Catalysis, 2007, 28, 187-189.	14.0	6
84	Effect of Aluminum on the Mechanical Stress Stability of WOx/ZrO2 Superacid. Chinese Journal of Catalysis, 2008, 29, 415-417.	14.0	6
85	Ionothermal Synthesis of MnAPO-SOD Molecular Sieve without the Aid of Organic Structure-Directing Agents. Inorganic Chemistry, 2016, 55, 1809-1815.	4.0	5
86	Direct synthesis of shaped MgAPO-11 molecular sieves and the catalytic performance in n-dodecane hydroisomerization. RSC Advances, 2021, 11, 25364-25374.	3.6	5
87	Ionothermal synthesis of aluminophosphate molecular sieves. Studies in Surface Science and Catalysis, 2007, 170, 228-232.	1.5	4
88	IT-SOFC operated with catalytically processed methane fuels. Studies in Surface Science and Catalysis, 2007, 167, 43-48.	1.5	4
89	One-step synthesis of honeycomb-like AlPO₄-11 macrostructures based on epitaxial growth and phase transformation mechanisms. Chemical Communications, 2016, 52, 2253-2256.	4.1	4
90	Graphenâ€Ähnlicher Kohlenstoff aus Biomasse: effiziente metallfreie Kohlenstoffkatalysatoren fÃ¼r Epoxidierungen. Angewandte Chemie, 2018, 130, 17141-17145.	2.0	4

#	Article	IF	Citations
91	Ionothermal Synthesis of AEL-Type Aluminophosphate Molecular Sieve Membrane and Its Formation Mechanism. Acta Chimica Sinica, 2013, 71, 573.	1.4	4
92	The Cooperative Templating Effect of Organic Amine in the Ionothermal Syn-thesis of LTA Type Aluminophosphate Molecular Sieves. Chinese Journal of Catalysis, 2010, 31, 1083-1089.	14.0	4
93	Synthesis of MgAPO-11 Molecular Sieves and the Catalytic Performance of Pt/MgAPO-11 for n-Dodecane Hydroisomerization. Chinese Journal of Catalysis, 2006, 27, 1039-1044.	14.0	3
94	Effect of the morphology on thermal stability of the Ba-Ce-Mn-Al-O oxides synthesized in a reverse microemulsion. Journal of Alloys and Compounds, 2008, 461, 516-520.	5.5	3
95	Synthesis of regularly shaped AlPO4-11 molecular sieve through a solid transformation approach. Microporous and Mesoporous Materials, 2020, 295, 109962.	4.4	3
96	Synthesis and characterization of SAPO-11 molecular sieves from alcoholic systemsÂ. Reaction Kinetics and Catalysis Letters, 2006, 88, 81-88.	0.6	2
97	Syntheses of La1-xBaxMn2Al10O19Catalysts (x= 0, 0.05) in a Novel Microemulsion of Water/2-Propanol/1-Butanol and Their High Activities in Methane Combustion. Journal of Physical Chemistry C, 2007, 111, 10941-10947.	3.1	2
98	Facile Synthesis of Hierarchical Nanosized Singleâ€€rystal Aluminophosphate Molecular Sieves from Highly Homogeneous and Concentrated Precursors. Angewandte Chemie, 2020, 132, 3483-3487.	2.0	2
99	Acceleration effect of sodium halide on zeolite crystallization: ZSM-12 as a case study. Microporous and Mesoporous Materials, 2022, 331, 111652.	4.4	2
100	A HREELS study of the adsorption of formic acid on slightly oxidized Nb (110) surface. Science in China Series B: Chemistry, 1997, 40, 9-14.	0.8	1
101	Methane conversion via microwave plasma initiated by a metal initiator****Supported cpby Youth Science Foundation of Laser Technology of China (No.98-11). Studies in Surface Science and Catalysis, 2001, 136, 75-80.	1.5	1
102	An Innovative Approach for Ethylene Production from Natural Gas. Studies in Surface Science and Catalysis, 2001, , 69-74.	1.5	1
103	Effect of drying method on the morphology and structure of high surface area BaMnAl11O19â^'Î± catalyst for high temperature methane combustion. Studies in Surface Science and Catalysis, 2004, 147, 487-492.	1.5	1
104	Isomorphous substitution induced ionothermal synthesis of magnesium aluminophosphate zeolites in fluoride-free media. RSC Advances, 2016, 6, 61915-61919.	3.6	1
105	High resolution electron energy loss spectroscopy study of the oxidation of Nb(ll0) surface. Science Bulletin, 1997, 42, 384-387.	1.7	0
106	Formation of a Novel Type of Reverse Microemulsion System and Its Application in Synthesis of the Nanostructured La0.95Ba0.05MnAl11O19 Catalyst.. ChemInform, 2004, 35, no.	0.0	0
107	InnenrÃ¼cktitelbild: Facile Synthesis of Hierarchical Nanosized Singleâ€€rystal Aluminophosphate Molecular Sieves from Highly Homogeneous and Concentrated Precursors (Angew. Chem. 9/2020). Angewandte Chemie, 2020, 132, 3775-3775.	2.0	0