

Manabu Miyamoto

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/168626/publications.pdf>

Version: 2024-02-01

73
papers

1,864
citations

304743

22
h-index

276875

41
g-index

73
all docs

73
docs citations

73
times ranked

2166
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption and Diffusion Phenomena in Crystal Size Engineered ZIF-8 MOF. <i>Journal of Physical Chemistry C</i> , 2015, 119, 28430-28439.	3.1	204
2	Selective formation of para-xylene over H-ZSM-5 coated with polycrystalline silicalite crystals. <i>Journal of Catalysis</i> , 2006, 243, 389-394.	6.2	132
3	Single Crystals of ZSM-5/Silicalite Composites. <i>Advanced Materials</i> , 2005, 17, 1985-1988.	21.0	116
4	Pure silica CHA type zeolite for CO ₂ separation using pressure swing adsorption at high pressure. <i>Journal of Materials Chemistry</i> , 2012, 22, 20186.	6.7	100
5	Catalytic activities and structures of silicalite-1/H-ZSM-5 zeolite composites. <i>Microporous and Mesoporous Materials</i> , 2008, 115, 106-112.	4.4	91
6	Light Olefins Synthesis from Methanol and Dimethylether over SAPO-34 Nanocrystals. <i>Catalysis Letters</i> , 2010, 140, 22-26.	2.6	90
7	Zeolite membrane on catalyst particles for selective formation of p-xylene in the disproportionation of toluene. <i>Chemical Communications</i> , 2001, , 1746-1747.	4.1	58
8	In situ solvothermal growth of highly oriented Zr-based metal organic framework UiO-66 film with monocrystalline layer. <i>CrystEngComm</i> , 2015, 17, 3422-3425.	2.6	55
9	An Organoselective Zirconium-Based Metal-Organic Framework UiO-66 Membrane for Pervaporation. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 2094-2099.	2.0	53
10	Surface modification of soft-templated ordered mesoporous carbon for electrochemical supercapacitors. <i>Microporous and Mesoporous Materials</i> , 2015, 217, 141-149.	4.4	50
11	Effect of pore size, aminosilane density and aminosilane molecular length on CO ₂ adsorption performance in aminosilane modified mesoporous silica. <i>Microporous and Mesoporous Materials</i> , 2017, 246, 158-165.	4.4	43
12	Morphology Control of Silicalite/HZSM-5 Composite Catalysts for the Formation of Para-Xylene. <i>Catalysis Letters</i> , 2009, 127, 233-238.	2.6	42
13	para-Selectivity of silicalite-1 coated MFI type galloaluminosilicate in aromatization of light alkanes. <i>Journal of Porous Materials</i> , 2015, 22, 769-778.	2.6	38
14	High-performance silicalite-1 membranes on porous tubular silica supports for separation of ethanol/water mixtures. <i>Separation and Purification Technology</i> , 2017, 187, 343-354.	7.9	38
15	Synthesis of MFI type ferrisilicate zeolite (Fe-MFI) nanocrystals by a dry gel conversion (DGC) method and their application to methanol to olefin (MTO) reactions. <i>New Journal of Chemistry</i> , 2017, 41, 2235-2240.	2.8	35
16	Hydrogen-permeable membranes composed of zeolite nano-blocks. <i>Journal of Membrane Science</i> , 2007, 306, 349-354.	8.2	34
17	Separator Decoration with Cobalt/Nitrogen Codoped Carbon for Highly Efficient Polysulfide Confinement in Lithium-Sulfur Batteries. <i>ChemSusChem</i> , 2017, 10, 3557-3564.	6.8	33
18	Effect of basicity of metal doped ZrO ₂ supports on hydrogen production reactions. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 730-738.	7.1	33

#	ARTICLE	IF	CITATIONS
19	Verified synthesis of pure silica CHA-type zeolite in fluoride media. <i>Microporous and Mesoporous Materials</i> , 2015, 206, 67-74.	4.4	32
20	Solvent/OSDA-free interzeolite transformation of FAU into CHA zeolite with quantitative yield. <i>Microporous and Mesoporous Materials</i> , 2019, 278, 219-224.	4.4	31
21	High Water Tolerance of a Core-Shell Structured Zeolite for CO ₂ Adsorptive Separation under Wet Conditions. <i>ChemSusChem</i> , 2018, 11, 1756-1760.	6.8	26
22	Improving hydrothermal stability of acid sites in MFI type aluminosilicate zeolite (ZSM-5) by coating MFI type all silica zeolite (silicalite-1) shell layer. <i>Microporous and Mesoporous Materials</i> , 2019, 288, 109523.	4.4	25
23	Silicalite-1 coating on Pt/TiO ₂ particles by a two-step hydrothermal synthesis. <i>Microporous and Mesoporous Materials</i> , 2005, 83, 244-250.	4.4	23
24	Influence of the pre-reformer in steam reforming of dodecane using a Pd alloy membrane reactor. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 7771-7775.	7.1	23
25	A simple secondary growth method for the preparation of silicalite-1 membrane on a tubular silica support via gel-free steam-assisted conversion. <i>Journal of Membrane Science</i> , 2017, 542, 150-158.	8.2	23
26	Dehydrogenation of propane over high silica *BEA type gallosilicate (Ga-Beta). <i>Catalysis Science and Technology</i> , 2019, 9, 6234-6239.	4.1	23
27	Effect of core-shell structuring of chabazite zeolite with a siliceous zeolite thin layer on the separation of acetone-butanol-ethanol vapor in humid vapor conditions. <i>Chemical Engineering Journal</i> , 2019, 363, 292-299.	12.7	22
28	Effect of deposition seed crystal amount on the γ -Al ₂ O ₃ support and separation performance of silicalite-1 membranes for acetic acid/water mixtures. <i>Separation and Purification Technology</i> , 2017, 174, 57-65.	7.9	21
29	Influence of metal cation doping on Ru/CeO ₂ /Al ₂ O ₃ catalyst for steam reforming of desulfurized kerosene. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 2657-2662.	7.1	20
30	Fabrication of high-performance silicalite-1 membrane by a novel seeding method using zeolite-dispersed polymer film. <i>Microporous and Mesoporous Materials</i> , 2018, 261, 58-62.	4.4	20
31	Fabrication of Pt nanoparticles encapsulated in single crystal like silicalite-1 zeolite as a catalyst for shape-selective hydrogenation of C ₆ olefins. <i>Microporous and Mesoporous Materials</i> , 2018, 271, 156-159.	4.4	20
32	Hydrogen separation from mixed gas (H ₂ , N ₂) using Pd/Al ₂ O ₃ membrane under forced unsteady state operations. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 9821-9835.	7.1	19
33	Synthesis of high silica *BEA type ferrisilicate (Fe-Beta) by dry gel conversion method using dealuminated zeolites and its catalytic performance on acetone to olefins (ATO) reaction. <i>Microporous and Mesoporous Materials</i> , 2019, 273, 189-195.	4.4	18
34	Effects of seed crystal type on the growth and microstructures of silicalite-1 membranes on tubular silica supports via gel-free steam-assisted conversion. <i>Microporous and Mesoporous Materials</i> , 2019, 289, 109645.	4.4	18
35	Aminosilanes grafted nanocrystalline cellulose from oil palm empty fruit bunch aerogel for carbon dioxide capture. <i>Journal of Materials Research and Technology</i> , 2021, 13, 2287-2296.	5.8	18
36	Development of AEI type germanoaluminophosphate (GeAPO-18) with ultra-weak acid sites and its catalytic properties for the methanol to olefin (MTO) reaction. <i>Catalysis Science and Technology</i> , 2017, 7, 4622-4628.	4.1	17

#	ARTICLE	IF	CITATIONS
37	Effect of Si/Al ratio and amount of deposited MFI-type seed crystals on the separation performance of silicalite-1 membranes for ethanol/water mixtures in the presence of succinic acid. <i>Microporous and Mesoporous Materials</i> , 2018, 267, 1-8.	4.4	17
38	Nanoporous ZSM-5 Crystals Coated with Silicalite-1 for Enhanced <i>p</i> -Xylene Separation. <i>ACS Applied Nano Materials</i> , 2019, 2, 2642-2650.	5.0	16
39	Effects of Silica-Particle Coating on a Silica Support for the Fabrication of High-Performance Silicalite-1 Membranes by Gel-Free Steam-Assisted Conversion. <i>Membranes</i> , 2019, 9, 46.	3.0	14
40	Synthesis of high silica SSZ-13 in fluoride-free media by dry gel conversion method. <i>Microporous and Mesoporous Materials</i> , 2019, 278, 322-326.	4.4	13
41	CO ₂ methanation combined with NH ₃ decomposition by in situ H ₂ separation using a Pd membrane reactor. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 10154-10160.	7.1	12
42	Organosilica Membrane with Ionic Liquid Properties for Separation of Toluene/H ₂ Mixture. <i>Materials</i> , 2017, 10, 901.	2.9	12
43	Promoting dry reforming of methane <i>via</i> bifunctional NiO/dolomite catalysts for production of hydrogen-rich syngas. <i>RSC Advances</i> , 2021, 11, 6667-6681.	3.6	11
44	Stable dehydroaromatization of ethane over Zn ion exchanged MFI type galloaluminosilicate zeolite. <i>Fuel</i> , 2021, 305, 121487.	6.4	11
45	Effect of adhesion of metals on deterioration of Pd and Pd alloy membranes. <i>Journal of Alloys and Compounds</i> , 2013, 577, 445-450.	5.5	10
46	Hydrophobic *BEA-Type Zeolite Membranes on Tubular Silica Supports for Alcohol/Water Separation by Pervaporation. <i>Membranes</i> , 2019, 9, 86.	3.0	10
47	Solvent/OSDA-free transformation of unseeded aluminosilicate into various zeolites via mechanochemical and vapor treatments. <i>Microporous and Mesoporous Materials</i> , 2019, 273, 273-275.	4.4	9
48	Fabrication of pure-silica *BEA-type zeolite membranes on tubular silica supports coated with dilute synthesis gel via steam-assisted conversion. <i>Separation and Purification Technology</i> , 2020, 247, 116934.	7.9	9
49	Gas permeation properties of amine loaded mesoporous silica membranes for CO ₂ separation. <i>Desalination and Water Treatment</i> , 2011, 34, 266-271.	1.0	8
50	Measurement of extra-cellular fluid change in salivary gland using an impedance method.. <i>The Japanese Journal of Physiology</i> , 1986, 36, 565-583.	0.9	7
51	Effect of Crystal Size on Acetone Conversion over SAPO-34 Crystals. <i>Catalysis Letters</i> , 2012, 142, 464-468.	2.6	6
52	Selective Formation of <i>p</i> -xylene over single crystal-like zeolite composite. <i>Studies in Surface Science and Catalysis</i> , 2006, 162, 275-282.	1.5	5
53	Preparation of Pore-fill-type Palladium-Porous Alumina Composite Membrane for Hydrogen Separation. <i>Chemistry Letters</i> , 2011, 40, 19-21.	1.3	5
54	Highly permeable mesoporous silica membranes synthesized by vapor infiltration of tetraethoxysilane into non-ionic alkyl poly(oxyethylene) surfactant films. <i>Journal of Membrane Science</i> , 2008, 325, 698-703.	8.2	4

#	ARTICLE	IF	CITATIONS
55	Study of Gas Adsorption Properties of Amidoamine-Loaded Mesoporous Silica for Examining Its Use in CO ₂ Separation. Journal of Chemical Engineering of Japan, 2012, 45, 395-400.	0.6	4
56	Synthesis and crystal structures of a novel layered silicate SSA-1 and its microporous derivatives by topotactic transformation. Dalton Transactions, 2016, 45, 16335-16344.	3.3	4
57	Preparation of novel hydrophilic microporous material PML-1 membrane by topotactic transformation of layered silicate SSA-1 and applicability to the dehydration of aqueous acetic acid. Microporous and Mesoporous Materials, 2019, 285, 241-246.	4.4	4
58	Hydrogen separation membrane encapsulating Pd nanoparticles in a silica layer. Desalination and Water Treatment, 2010, 17, 233-241.	1.0	3
59	Life and Mental Health of Medical Students after the Great East Japan Earthquake. Tohoku Journal of Experimental Medicine, 2015, 235, 311-325.	1.2	3
60	Solvent- and OSDA-Free Synthesis of ZSM-5 Assisted by Mechanochemical and Vapor Treatments. ChemistrySelect, 2017, 2, 7651-7653.	1.5	3
61	Continuous measurements of tissue impedance during secretion in dog submandibular gland.. The Japanese Journal of Physiology, 1988, 38, 699-712.	0.9	3
62	Selective Formation of <i>p</i> -Xylene in Aromatization of Propane over Silicalite-1-coated GaAlMFI. Journal of the Japan Petroleum Institute, 2011, 54, 275-276.	0.6	2
63	Effects of Catalysts and Membranes on the Performance of Membrane Reactors in Steam Reforming of Ethanol at Moderate Temperature. Processes, 2016, 4, 18.	2.8	2
64	Effect of Co-products on Pd Membrane Performance in Membrane Reforming of Desulfurized Kerosene. Journal of Chemical Engineering of Japan, 2017, 50, 15-20.	0.6	2
65	Dynamic operation of water gas shift reaction over Fe ₂ O ₃ /Cr ₂ O ₃ /CuO catalyst in Pd/Al ₂ O ₃ membrane reactor. IOP Conference Series: Earth and Environmental Science, 2018, 105, 012020.	0.3	2
66	Observation of electro-kinetic phenomena by imposing oscillating pressure and voltage gradients across some epithelial membranes.. The Japanese Journal of Physiology, 1986, 36, 397-402.	0.9	2
67	Effect of Silicalite-1 Coating on Product Selectivity Over MFI Type Galloaluminosilicate in Aromatization of Light Alkenes. Advanced Porous Materials, 2016, 4, 102-109.	0.3	2
68	Design of Zr- and Al-Doped *BEA-Type Zeolite to Boost LDPE Cracking. ACS Omega, 2022, 7, 12971-12977.	3.5	2
69	Preparation of thin and dense electroless-plated Pd membrane by controlling Pd deposition behavior. Transactions of the Materials Research Society of Japan, 2011, 36, 229-232.	0.2	1
70	Decrease of extracellular fluid in dog submandibular glands during secretion under arterial clamping conditions.. The Japanese Journal of Physiology, 1985, 35, 1085-1090.	0.9	1
71	A Novel Strategy to Enhance Acid Strength of Zeolites by Incorporating Ge into Zeolite Framework. ChemistrySelect, 2022, 7, .	1.5	1
72	Single Crystals of ZSM-5/Silicalite Composites.. ChemInform, 2005, 36, no.	0.0	0

#	ARTICLE	IF	CITATIONS
73	Integrated Reaction and Separation Process Using Metallic Membrane. Membrane, 2021, 46, 131-137.	0.0	0