

# Manabu Miyamoto

## List of Publications by Year in descending order

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73  
papers

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304743

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73  
docs citations

73  
times ranked

2166  
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of Zr- and Al-Doped *BEA-Type Zeolite to Boost LDPE Cracking. ACS Omega, 2022, 7, 12971-12977.	3.5	2
2	A Novel Strategy to Enhance Acid Strength of Zeolites by Incorporating Ge into Zeolite Framework. ChemistrySelect, 2022, 7, .	1.5	1
3	Promoting dry reforming of methane <i>via</i> bifunctional NiO/dolomite catalysts for production of hydrogen-rich syngas. RSC Advances, 2021, 11, 6667-6681.	3.6	11
4	Integrated Reaction and Separation Process Using Metallic Membrane. Membrane, 2021, 46, 131-137.	0.0	0
5	Aminosilanes grafted nanocrystalline cellulose from oil palm empty fruit bunch aerogel for carbon dioxide capture. Journal of Materials Research and Technology, 2021, 13, 2287-2296.	5.8	18
6	Stable dehydroaromatization of ethane over Zn ion exchanged MFI type galloaluminosilicate zeolite. Fuel, 2021, 305, 121487.	6.4	11
7	Hydrogen separation from mixed gas (H <sub>2</sub> , N <sub>2</sub> ) using Pd/Al <sub>2</sub> O <sub>3</sub> membrane under forced unsteady state operations. International Journal of Hydrogen Energy, 2020, 45, 9821-9835.	7.1	19
8	Fabrication of pure-silica *BEA-type zeolite membranes on tubular silica supports coated with dilute synthesis gel via steam-assisted conversion. Separation and Purification Technology, 2020, 247, 116934.	7.9	9
9	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. Microporous and Mesoporous Materials, 2019, 273, 189-195.	4.4	18
10	Solvent/OSDA-free transformation of unseeded aluminosilicate into various zeolites via mechanochemical and vapor treatments. Microporous and Mesoporous Materials, 2019, 273, 273-275.	4.4	9
11	Effects of seed crystal type on the growth and microstructures of silicalite-1 membranes on tubular silica supports via gel-free steam-assisted conversion. Microporous and Mesoporous Materials, 2019, 289, 109645.	4.4	18
12	Hydrophobic *BEA-Type Zeolite Membranes on Tubular Silica Supports for Alcohol/Water Separation by Pervaporation. Membranes, 2019, 9, 86.	3.0	10
13	Dehydrogenation of propane over high silica *BEA type gallosilicate (Ga-Beta). Catalysis Science and Technology, 2019, 9, 6234-6239.	4.1	23
14	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. Chemical Engineering Journal, 2019, 363, 292-299.	12.7	22
15	Improving hydrothermal stability of acid sites in MFI type aluminosilicate zeolite (ZSM-5) by coating MFI type all silica zeolite (silicalite-1) shell layer. Microporous and Mesoporous Materials, 2019, 288, 109523.	4.4	25
16	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
17	Nanoporous ZSM-5 Crystals Coated with Silicalite-1 for Enhanced <i>p</i> -Xylene Separation. ACS Applied Nano Materials, 2019, 2, 2642-2650.	5.0	16
18	Effects of Silica-Particle Coating on a Silica Support for the Fabrication of High-Performance Silicalite-1 Membranes by Gel-Free Steam-Assisted Conversion. Membranes, 2019, 9, 46.	3.0	14

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19	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
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 <sub>2</sub> Adsorptive Separation under Wet Conditions. <i>ChemSusChem</i> , 2018, 11, 1756-1760.	6.8	26
22	Effect of basicity of metal doped ZrO <sub>2</sub> supports on hydrogen production reactions. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 730-738.	7.1	33
23	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
24	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
25	Dynamic operation of water gas shift reaction over Fe <sub>2</sub> O <sub>3</sub> /Cr <sub>2</sub> O <sub>3</sub> /CuO catalyst in Pd/Al <sub>2</sub> O <sub>3</sub> membrane reactor. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 105, 012020.	0.3	2
26	Fabrication of Pt nanoparticles encapsulated in single crystal like silicalite-1 zeolite as a catalyst for shape-selective hydrogenation of C <sub>6</sub> olefins. <i>Microporous and Mesoporous Materials</i> , 2018, 271, 156-159.	4.4	20
27	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
28	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
29	Effect of pore size, aminosilane density and aminosilane molecular length on CO <sub>2</sub> adsorption performance in aminosilane modified mesoporous silica. <i>Microporous and Mesoporous Materials</i> , 2017, 246, 158-165.	4.4	43
30	Solvent- and OSDA-Free Synthesis of ZSM-5 Assisted by Mechanochemical and Vapor Treatments. <i>ChemistrySelect</i> , 2017, 2, 7651-7653.	1.5	3
31	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
32	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
33	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
34	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
35	Effect of deposition seed crystal amount on the γ-Al <sub>2</sub> O <sub>3</sub> 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
36	Organosilica Membrane with Ionic Liquid Properties for Separation of Toluene/H <sub>2</sub> Mixture. <i>Materials</i> , 2017, 10, 901.	2.9	12

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37	Effect of Co-products on Pd Membrane Performance in Membrane Reforming of Desulfurized Kerosene. <i>Journal of Chemical Engineering of Japan</i> , 2017, 50, 15-20.	0.6	2
38	Effects of Catalysts and Membranes on the Performance of Membrane Reactors in Steam Reforming of Ethanol at Moderate Temperature. <i>Processes</i> , 2016, 4, 18.	2.8	2
39	Synthesis and crystal structures of a novel layered silicate SSA-1 and its microporous derivatives by topotactic transformation. <i>Dalton Transactions</i> , 2016, 45, 16335-16344.	3.3	4
40	Effect of Silicalite-1 Coating on Product Selectivity Over MFI Type Galloaluminosilicate in Aromatization of Light Alkenes. <i>Advanced Porous Materials</i> , 2016, 4, 102-109.	0.3	2
41	Life and Mental Health of Medical Students after the Great East Japan Earthquake. <i>Tohoku Journal of Experimental Medicine</i> , 2015, 235, 311-325.	1.2	3
42	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
43	Verified synthesis of pure silica CHA-type zeolite in fluoride media. <i>Microporous and Mesoporous Materials</i> , 2015, 206, 67-74.	4.4	32
44	Influence of metal cation doping on Ru/CeO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> catalyst for steam reforming of desulfurized kerosene. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 2657-2662.	7.1	20
45	Surface modification of soft-templated ordered mesoporous carbon for electrochemical supercapacitors. <i>Microporous and Mesoporous Materials</i> , 2015, 217, 141-149.	4.4	50
46	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
47	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
48	CO <sub>2</sub> methanation combined with NH <sub>3</sub> decomposition by in situ H <sub>2</sub> separation using a Pd membrane reactor. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 10154-10160.	7.1	12
49	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
50	Pure silica CHA type zeolite for CO <sub>2</sub> separation using pressure swing adsorption at high pressure. <i>Journal of Materials Chemistry</i> , 2012, 22, 20186.	6.7	100
51	Study of Gas Adsorption Properties of Amidoamine-Loaded Mesoporous Silica for Examing Its Use in CO <sub>2</sub> Separation. <i>Journal of Chemical Engineering of Japan</i> , 2012, 45, 395-400.	0.6	4
52	Effect of Crystal Size on Acetone Conversion over SAPO-34 Crystals. <i>Catalysis Letters</i> , 2012, 142, 464-468.	2.6	6
53	Gas permeation properties of amine loaded mesoporous silica membranes for CO <sub>2</sub> separation. <i>Desalination and Water Treatment</i> , 2011, 34, 266-271.	1.0	8
54	Preparation of Pore-fill-type Palladium-Porous Alumina Composite Membrane for Hydrogen Separation. <i>Chemistry Letters</i> , 2011, 40, 19-21.	1.3	5

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55	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
56	Influence of the pre-reformer in steam reforming of dodecane using a Pd alloy membrane reactor. International Journal of Hydrogen Energy, 2011, 36, 7771-7775.	7.1	23
57	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
58	Light Olefins Synthesis from Methanol and Dimethylether over SAPO-34 Nanocrystals. Catalysis Letters, 2010, 140, 22-26.	2.6	90
59	Hydrogen separation membrane encapsulating Pd nanoparticles in a silica layer. Desalination and Water Treatment, 2010, 17, 233-241.	1.0	3
60	Morphology Control of Silicalite/HZSM-5 Composite Catalysts for the Formation of Para-Xylene. Catalysis Letters, 2009, 127, 233-238.	2.6	42
61	Highly permeable mesoporous silica membranes synthesized by vapor infiltration of tetraethoxysilane into non-ionic alkyl poly(oxyethylene) surfactant films. Journal of Membrane Science, 2008, 325, 698-703.	8.2	4
62	Catalytic activities and structures of silicalite-1/H-ZSM-5 zeolite composites. Microporous and Mesoporous Materials, 2008, 115, 106-112.	4.4	91
63	Hydrogen-permeable membranes composed of zeolite nano-blocks. Journal of Membrane Science, 2007, 306, 349-354.	8.2	34
64	Selective formation of para-xylene over H-ZSM-5 coated with polycrystalline silicalite crystals. Journal of Catalysis, 2006, 243, 389-394.	6.2	132
65	Selective Formation of <i>p</i> -xylene over single crystal-like zeolite composite. Studies in Surface Science and Catalysis, 2006, 162, 275-282.	1.5	5
66	Silicalite-1 coating on Pt/TiO <sub>2</sub> particles by a two-step hydrothermal synthesis. Microporous and Mesoporous Materials, 2005, 83, 244-250.	4.4	23
67	Single Crystals of ZSM-5/Silicalite Composites. Advanced Materials, 2005, 17, 1985-1988.	21.0	116
68	Single Crystals of ZSM-5/Silicalite Composites.. ChemInform, 2005, 36, no.	0.0	0
69	Zeolite membrane on catalyst particles for selective formation of <i>p</i> -xylene in the disproportionation of toluene. Chemical Communications, 2001, , 1746-1747.	4.1	58
70	Continuous measurements of tissue impedance during secretion in dog submandibular gland.. The Japanese Journal of Physiology, 1988, 38, 699-712.	0.9	3
71	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
72	Measurement of extra-cellular fluid change in salivary gland using an impedance method.. The Japanese Journal of Physiology, 1986, 36, 565-583.	0.9	7

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73	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