Hideyuki Negishi

List of Publications by Citations

76 papers	1,480 citations	22 h-index	35 g-index
79 ext. papers	1,605 ext. citations	4.3 avg, IF	4.25 L-index

#	Paper	IF	Citations
76	Diffusive separation of propylene/propane with ZIF-8 membranes. *Journal of Membrane Science*, **2014**, 450, 215-223	9.6	132
75	Naturally engineered glycolipid biosurfactants leading to distinctive self-assembled structures. *Chemistry - A European Journal*, **2006**, 12, 2434-40	4.8	94
74	Improvement of ethanol selectivity of silicalite membrane in pervaporation by silicone rubber coating. *Journal of Membrane Science*, **2002**, 210, 433-437	9.6	85
73	Concentration of fermented ethanol by pervaporation using silicalite membranes coated with silicone rubber. *Desalination*, **2002**, 149, 49-54	10.3	60
72	Application of Electrophoretic Deposition Technique to Solid Oxide Fuel Cells. *Journal of the Electrochemical Society*, **2000**, 147, 1682	3.9	56
71	Preparation of polyacrylonitrile ultrafiltration membranes for wastewater treatment. *Desalination*, **2002**, 144, 53-59	10.3	54
70	Drastic improvement of bioethanol recovery using a pervaporation separation technique employing a silicone rubber-coated silicalite membrane. *Journal of Chemical Technology and Biotechnology*, **2003**, 78, 1006-1010	3.5	54
69	Electrophoretic deposition of YSZ powders for solid oxide fuel cells. *Journal of Materials Science*, **2004**, 39, 833-838	4.3	48
68	Electronic Conductivity of ZrO[sub 2]-CeO[sub 2]-YO[sub 1.5] Solid Solutions. *Journal of the Electrochemical Society*, **2001**, 148, E489	3.9	41
67	Chromium diffusion in lanthanum chromites. *Solid State Ionics*, **2000**, 135, 469-474	3.3	39
66	Membrane-assisted extractive butanol fermentation by Clostridium saccharoperbutylacetonicum N1-4 with 1-dodecanol as the extractant. *Bioresource Technology*, **2012**, 116, 448-52	11	36
65	Vaporization process of Ga from doped LaGaO3 electrolytes in reducing atmospheres. *Solid State Ionics*, **2000**, 135, 389-396	3.3	36
64	Preparation of Tubular Silicalite Membranes by Hydrothermal Synthesis with Electrophoretic Deposition as a Seeding Technique. *Journal of the American Ceramic Society*, **2006**, 89, 124-130	3.8	34
63	High-performance silicalite-1 membranes on porous tubular silica supports for separation of ethanol/water mixtures. *Separation and Purification Technology*, **2017**, 187, 343-354	8.3	31
62	Selective separation of n-butanol from aqueous solutions by pervaporation using silicone rubber-coated silicalite membranes. *Journal of Chemical Technology and Biotechnology*, **2011**, 86, 845-851	3.5	28
61	Enzymatic synthesis of sugar esters in organic solvent coupled with pervaporation. *Desalination*, **2006**, 193, 260-266	10.3	27
60	Preparation of polyimide composite membranes grafted by electron beam irradiation. *Journal of Membrane Science*, **2004**, 232, 93-98	9.6	27

59	Metal□rganic framework membranes with layered structure prepared within the porous support. *RSC Advances*, **2013**, 3, 14233	3.7	24
58	Candida krusei produces ethanol without production of succinic acid; a potential advantage for ethanol recovery by pervaporation membrane separation. *FEMS Yeast Research*, **2008**, 8, 706-14	3.1	24
57	Electrophoretic Deposition Mechanism of YSZ/n-Propanol Suspension. *Journal of the Electrochemical Society*, **2005**, 152, J16	3.9	24
56	ZIF-8 membranes prepared at miscible and immiscible liquid□liquid interfaces. *Microporous and Mesoporous Materials*, **2015**, 206, 75-80	5.3	23
55	Silicalite Pervaporation Membrane Exhibiting a Separation Factor of over 400 for Butanol. *Chemistry Letters*, **2010**, 39, 1312-1314	1.7	23
54	Effect of deposition seed crystal amount on the □Al2O3 support and separation performance of silicalite-1 membranes for acetic acid/water mixtures. *Separation and Purification Technology*, **2017**, 174, 57-65	8.3	21
53	A simple secondary growth method for the preparation of silicalite-1 membrane on a tubular silica support via gel-free steam-assisted conversion. *Journal of Membrane Science*, **2017**, 542, 150-158	9.6	19
52	Miscibility gap in CeO2□rO2□YO1.5 system as an electrode of solid oxide fuel cell. *Solid State Ionics* , **2001**, 143, 151-160	3.3	19
51	Stabilized production of highly concentrated bioethanol from fermentation broths by Zymomonas mobilis by pervaporation using silicone rubber-coated silicalite membranes. *Journal of Chemical Technology and Biotechnology*, **2007**, 82, 745-751	3.5	18
50	Reliable production of highly concentrated bioethanol by a conjunction of pervaporation using a silicone rubber sheet-covered silicalite membrane with adsorption process. *Journal of Chemical Technology and Biotechnology*, **2004**, 79, 896-901	3.5	18
49	Stabilization of bioethanol recovery with silicone rubber-coated ethanol-permselective silicalite membranes by controlling the pH of acidic feed solution. *Journal of Chemical Technology and Biotechnology*, **2005**, 80, 381-387	3.5	18
48	Interaction between Water/Hydrogen and Oxide Ceramics. *Electrochemistry*, **2000**, 68, 499-503	1.2	18
47	Fabrication of high-performance silicalite-1 membrane by a novel seeding method using zeolite-dispersed polymer film. *Microporous and Mesoporous Materials*, **2018**, 261, 58-62	5.3	17
46	Fabrication of Mesoporous Silica Coating by Electrophoretic Deposition. *Industrial & Engineering Chemistry Research*, **2008**, 47, 7236-7241	3.9	16
45	Preparation of photo-induced graft filling polymerized membranes for pervaporation using polyimide with benzophenone structure. *Journal of Membrane Science*, **2002**, 203, 191-199	9.6	16
44	Oxygen transport at the interface of La0.92MnO3□ film/Y0.15Zr0.85O1.925 single crystal. *Solid State Ionics*, **2000**, 136-137, 897-904	3.3	15
43	Quantitative contribution of non-ideal permeability under diffusion-controlled hydrogen permeation through Pd-membranes. *International Journal of Hydrogen Energy*, **2014**, 39, 4676-4682	6.7	14
42	Effect of Temperature on Synthesis of ZIF-8 Membranes for Propylene/propane Separation by Counter Diffusion Method. *Journal of the Japan Petroleum Institute*, **2015**, 58, 237-244	1	14

41	Thickness Reduction of the Zeolitic Imidazolate Framework-8 Membrane by Controlling the Reaction Rate during the Membrane Preparation. *Journal of Chemical Engineering of Japan*, **2014**, 47, 770-776	0.8	14
40	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. *Microporous and Mesoporous Materials*, **2018**, 267, 1-8	5.3	13
39	Efficient butanol recovery from acetone-butanol-ethanol fermentation cultures grown on sweet sorghum juice by pervaporation using silicalite-1 membrane. *Journal of Bioscience and Bioengineering*, **2016**, 121, 697-700	3.3	13
38	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	5.3	13
37	Pervaporation of aqueous dilute 1-butanol, 2-propanol, ethanol and acetone using a tubular silicalite membrane. *Desalination and Water Treatment*, **2011**, 34, 290-294		13
36	Preparation of Thin and Dense Lanthanum Cobaltite Coating on Porous Tubular Alumina Supports by Electrophoretic Deposition. *Journal of the Ceramic Society of Japan*, **2006**, 114, 36-41		13
35	Pervaporative concentration of biobutanol from ABE fermentation broths by Clostridium saccharoperbutylacetonicum using silicone rubber-coated silicalite-1 membranes. *Separation and Purification Technology*, **2014**, 132, 206-212	8.3	12
34	Preparation of the silicalite membranes using a seeding technique under various hydrothermal conditions. *Desalination*, **2002**, 144, 47-52	10.3	12
33	Processing of ethanol fermentation broths by Candida krusei to separate bioethanol by pervaporation using silicone rubber-coated silicalite membranes. *Journal of Chemical Technology and Biotechnology*, **2009**, 84, 1172-1177	3.5	11
32	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,	3.8	10
31	Zeta Potential of Various Oxide Particles and the Charging Mechanism.. *Journal of the Ceramic Society of Japan*, **1999**, 107, 119-122		10
30	Preparation of thick mesoporous silica coating by electrophoretic deposition with binder addition and its water vapor adsorption□desorption properties. *Microporous and Mesoporous Materials*, **2013**, 180, 250-256	5.3	9
29	Effect of Solution Concentration on Structure and Permeation Properties of ZIF-8 Membranes for Propylene/Propane Separation. *Journal of Chemical Engineering of Japan*, **2016**, 49, 97-103	0.8	9
28	Preparation of TB(S)CCO Superconductor Coating by Electrophoretic Deposition Method. *Japanese Journal of Applied Physics*, **1996**, 35, 4302-4306	1.4	8
27	Preparation of Mesoporous Silicate Thick Films by Electrophoretic Deposition and Their Adsorption Properties of Water Vapor. *Key Engineering Materials*, **2006**, 314, 147-152	0.4	8
26	Influence of Water on the Preparation of Thick Mesoporous Silica Coatings by the Electrophoretic Deposition Method. *Key Engineering Materials*, **2009**, 412, 171-176	0.4	7
25	Electrophoretic Deposition and the Deposition Mechanism of Tl-2223 Superconducting Powder. *Journal of the Ceramic Society of Japan*, **1997**, 105, 351-355		7
24	Drastic Improvements in Trapping Efficiency and Dispersibility for Phosphatidylcholine Liposomes in the Presence of Divalent Metal Ions. *Journal of Oleo Science*, **2003**, 52, 673-679	1.6	7

23	Hydrophobic *BEA-Type Zeolite Membranes on Tubular Silica Supports for Alcohol/Water Separation by Pervaporation. *Membranes*, **2019**, 9,	3.8	6
22	Electrophoretic deposition of mesoporous silica powder synthesized by spray-drying method. *Journal of the Ceramic Society of Japan*, **2011**, 119, 168-172	1	6
21	Uniform and ultra low-power electrophoretic deposition of silica powder using a nonflammable organic solvent. *Journal of the European Ceramic Society*, **2016**, 36, 285-290	6	5
20	Preparation of nanoporous inorganic membrane on supports with graded structure. *Desalination and Water Treatment*, **2010**, 17, 99-105		5
19	Electrophoretic Deposition Mechanism of Mesoporous Silica Powder in Acetone. *Key Engineering Materials*, **2009**, 412, 131-136	0.4	5
18	Charging Mechanism of Tl-2223 Superconducting Oxide Particles in Electrophoretic Deposition Bath.. *Journal of the Ceramic Society of Japan*, **2001**, 109, 294-298		5
17	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	5.3	4
16	Preparation of tubular mixed conducting oxide membrane by electrophoretic deposition technique. *Desalination*, **2006**, 200, 71-73	10.3	4
15	Control of ZIF-7-III aspect ratio using water-in-oil microemulsion. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2020**, 603, 125157	5.1	3
14	Ultra-low-electric power electrophoretic deposition by using non-flammable hydrofluoroether. *Journal of the Ceramic Society of Japan*, **2014**, 122, 67-71	1	3
13	Preparation of ZSM-5 Zeolite Membranes by Combined Hydrothermal Synthesis and Electrophoretic Deposition. *Key Engineering Materials*, **2015**, 654, 47-52	0.4	3
12	Oxygen Chemical Diffusion at LaMnO3 Film/YSZ under Cathodic Polarization by Secondary Ion Mass Spectrometry. *Electrochemistry*, **2000**, 68, 433-438	1.2	3
11	Energy-saving Performance of Membrane Separation and Hybrid Membrane Separation/Distillation for Propylene/Propane Binary Systems. *Journal of the Japan Petroleum Institute*, **2019**, 62, 80-86	1	3
10	Heat-Integrated Hybrid Membrane Separation□Distillation Process for Energy-Efficient Isopropyl Alcohol Dehydration. *Journal of Chemical Engineering of Japan*, **2018**, 51, 890-897	0.8	3
9	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	8.3	2
8	Preparation and characterization of mesoporous silica□polyvinyl butyral hybrid coatings by electrophoretic deposition. *Microporous and Mesoporous Materials*, **2020**, 292, 109710	5.3	2
7	Electrophoretic Deposition of Oxide Powder by Using Non-Flammable Organic Solvent. *Ceramic Engineering and Science Proceedings*,177-185	0.1	2
6	Power efficiency of electrophoretic deposition of silica using nonflammable ethyl perfluorobutyl ether. *Journal of the Ceramic Society of Japan*, **2014**, 122, 876-880	1	1

5	Surface silylation of silicalite membranes and their pervaporation performance for the separation of ethanol from ethanol-water mixtures. *Journal of the Ceramic Society of Japan*, **2014**, 122, 357-360	1	1
4	Development of ZIF-8 Membranes for Propylene/Propane Separation by Direct Growth on a ZnO-Modified Support without Activation. *Journal of Chemical Engineering of Japan*, **2020**, 53, 616-625	0.8	1
3	Ultra-Low-Power Electrophoretic Deposition of Silica Powder with Nonflammable Organic Solvent. *Key Engineering Materials*, **2015**, 654, 88-93	0.4	
2	Preparation and Characterization of Tl-2223 Superconductor Coating Using the Electrophoretic Deposition Method. *Journal of the Ceramic Society of Japan*, **1997**, 105, 241-245		
1	Fabrication of Small Tubular SOFCs by Electrophoretic Deposition Technique. *ECS Proceedings Volumes*, **1999**, 1999-19, 885-892		