Masateru Nishioka

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

68 1,151 19 31 h-index g-index citations papers 1,268 3.9 70 3.94 L-index avg, IF ext. papers ext. citations

#	Paper	IF	Citations
68	Microwave-assisted Green Synthesis of Mesoporous Zeolite Adsorbents for Direct Air Capture of CO2. <i>Chemistry Letters</i> , 2022 , 51, 296-299	1.7	3
67	microwave heating fabrication of copper nanoparticles inside cotton fiber using pressurization in immiscible liquids with raw material solutions <i>RSC Advances</i> , 2021 , 11, 32541-32548	3.7	1
66	Cylindrical Resonator-Type Microwave Heating Reactor with Real-Time Monitoring Function of Dielectric Property Applied to Drying Processes. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 9119-9127	3.9	1
65	Rapid control of hydrogen permeation in Pd membrane reactor by magnetic-field-induced heating under microwave irradiation. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 20213-20221	6.7	5
64	Functional Particle Synthesis Method inside Natural Fibers with Hollow Structure. <i>Journal of Textile Engineering</i> , 2021 , 67, 105-109	0.3	
63	In-situ Fabrication of Functional Materials inside Porous Fiber using Microwave Selective Heating. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 1937-1940	4.5	2
62	Investigation of the Thermal Properties of Electrodes on the Film and Its Heating Behavior Induced by Microwave Irradiation in Mounting Processes. <i>Processes</i> , 2020 , 8, 557	2.9	3
61	Template-free mesoporous LTA zeolite synthesized using microwave heating in the flow system. <i>Microporous and Mesoporous Materials</i> , 2020 , 306, 110375	5.3	5
60	Continuous syntheses of carbon-supported Pd and Pd@Pt core-shell nanoparticles using a flow-type single-mode microwave reactor <i>RSC Advances</i> , 2020 , 10, 6571-6575	3.7	8
59	Reforming of Methane Using Single-mode Microwave Irradiation Heating in a Cylindrical Cavity. <i>Journal of the Japan Petroleum Institute</i> , 2020 , 63, 315-321	1	1
58	Ultra-fast pyrolysis of lignocellulose using highly tuned microwaves: synergistic effect of a cylindrical cavity resonator and a frequency-auto-tracking solid-state microwave generator. <i>Green Chemistry</i> , 2020 , 22, 342-351	10	18
57	Real-Time Facile Detection of the WO Catalyst Oxidation State under Microwaves Using a Resonance Frequency. <i>ACS Omega</i> , 2020 , 5, 31957-31962	3.9	3
56	Sheet-Type Flow Process Using Magnetic-Field-Induced Heating with Single-Mode Microwaves Applied to a Continuous Metal Nanoparticle Synthesis. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 20447-20454	3.9	5
55	Novel Sensing Technology for Real-Time Detection of Carbon Deposition on a Solid Catalyst Using the Resonance Frequency Shift of Single-Mode Microwave. <i>Industrial & Description of Chemistry Research</i> , 2019 , 58, 13007-13012	3.9	5
54	Development of Elemental Technology for Arbitrary Shape IoT Sensor and Its Future Development of the Technology. <i>Journal of Japan Institute of Electronics Packaging</i> , 2019 , 22, 476-479	0.1	
53	Direct decomposition of NO on metal-loaded zeolites with coexistence of oxygen and water vapor under unsteady-state conditions by NO concentration and microwave rapid heating. <i>Catalysis Today</i> , 2017 , 281, 566-574	5.3	13
52	Continuous syntheses of Pd@Pt and Cu@Ag core-shell nanoparticles using microwave-assisted core particle formation coupled with galvanic metal displacement. <i>Nanoscale</i> , 2014 , 6, 8720-5	7.7	43

(2008-2014)

51	Controlled Heating of Palladium Dispersed Porous Alumina Tube and Continuous Oxidation of Ethylene Using Frequency-Variable Single-Mode Microwave Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 1073-1078	3.9	12
50	Single-Mode Microwave Reactor Used for Continuous Flow Reactions under Elevated Pressure. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 4683-4687	3.9	53
49	Thermometer-free Detection and Control of Temperature for Microwave-assisted Flow Reactions. <i>Chemistry Letters</i> , 2013 , 42, 1096-1098	1.7	4
48	Synthesis of Ca0.8Sr0.2Ti0.7Fe0.3O3Ithin film membranes and its application to the partial oxidation of methane. <i>Solid State Ionics</i> , 2012 , 221, 43-49	3.3	14
47	Influence of CO2 and H2O on the separation of hydrogen over two types of Pd membranes: Thin metal membrane and pore-filling-type membrane. <i>Journal of Membrane Science</i> , 2012 , 415-416, 85-92	9.6	10
46	Continuous synthesis of monodispersed silver nanoparticles using a homogeneous heating microwave reactor system. <i>Nanoscale</i> , 2011 , 3, 2621-6	7.7	69
45	Rapid and Continuous Polyol Process for Platinum Nanoparticle Synthesis Using a Single-mode Microwave Flow Reactor. <i>Chemistry Letters</i> , 2011 , 40, 1327-1329	1.7	15
44	Facile and Continuous Synthesis of Ag@SiO2CoreBhell Nanoparticles by a Flow Reactor System Assisted with Homogeneous Microwave Heating. <i>Chemistry Letters</i> , 2011 , 40, 1204-1206	1.7	25
43	Pd membrane with low metal content for hydrogen separation and a catalytic membrane reactor combined with a microwave heating system. <i>Transactions of the Materials Research Society of Japan</i> , 2011 , 36, 221-224	0.2	1
42	Rapid Adsorption of Rh(III) by Polyamine-functionalized Cellulose Fiber Combined with Microwave Irradiation. <i>Chemistry Letters</i> , 2010 , 39, 1317-1318	1.7	9
41	Ozone-oxygen gas enhanced passivation of pure iron. <i>Electrochimica Acta</i> , 2010 , 55, 4685-4693	6.7	4
40	Formation of high flux CHA-type zeolite membranes and their application to the dehydration of alcohol solutions. <i>Journal of Membrane Science</i> , 2010 , 364, 318-324	9.6	61
39	Influence of synthesis gel composition on morphology, composition, and dehydration performance of CHA-type zeolite membranes. <i>Journal of Membrane Science</i> , 2010 , 363, 256-264	9.6	28
38	Palladium-based bifunctional membrane reactor for one-step conversion of benzene to phenol and cyclohexanone. <i>Catalysis Today</i> , 2010 , 156, 276-281	5.3	26
37	Direct production of hydrogen peroxide from oxygen and hydrogen applying membrane-permeation mechanism. <i>Chemical Engineering Science</i> , 2010 , 65, 436-440	4.4	25
36	Formation of Self-Ordered TiO[sub 2] Nanotubes by Electrochemical Anodization of Titanium in 2-Propanol/NH[sub 4]F. <i>Journal of the Electrochemical Society</i> , 2009 , 156, K227	3.9	12
35	The Direct Synthesis of Hydrogen Peroxide (ca. 5 wt %) from Hydrogen and Oxygen by Microreactor Technology. <i>Chemistry Letters</i> , 2009 , 38, 820-821	1.7	13
34	Generation of negative ions in the gas phase from a 12CaO?7Al2O3 membrane-coated ceramic heater under atmospheric pressure. <i>Applied Physics Letters</i> , 2008 , 93, 244101	3.4	

33	Investigating a catalytic mechanism of hyperthermophilic L-threonine dehydrogenase from Pyrococcus horikoshii. <i>Journal of Biochemistry</i> , 2008 , 144, 77-85	3.1	10
32	High efficiency ester condensation using hydrophobic zeolite membranes. <i>Korean Journal of Chemical Engineering</i> , 2008 , 25, 437-442	2.8	
31	Alteration of metal ions improves the activity and thermostability of aminoacylase from hyperthermophilic archaeon Pyrococcus horikoshii. <i>Biotechnology Letters</i> , 2008 , 30, 1639-43	3	4
30	Preparation of Ca0.8Sr0.2Ti1\(\textbf{k}\) FexO3\(\textbf{k}\) x = 0.1\(\textbf{D}\).3) nanoparticles using a flow supercritical reaction system. Journal of Supercritical Fluids, 2008 , 46, 77-82	4.2	17
29	Stoichiometric Ester Condensation Reaction Processes by Pervaporative Water Removal via Acid-Tolerant Zeolite Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 3743-3750) ^{3.9}	28
28	Olemission from 12CaOl Al2O3 and MSZ composite and its application for silicon oxidation. <i>Solid State Ionics</i> , 2006 , 177, 2235-2239	3.3	14
27	Design of one-component ceramic membrane-reactor for natural gas conversion. <i>Catalysis Today</i> , 2006 , 117, 297-303	5.3	18
26	Enhancement of Ca(OH)2/Fly Ash Sorbent for the Dry-Desulfurization Process. <i>Energy & Description</i> 2006, 20, 1901-1905	4.1	3
25	Ester Condensation from a Stoichiometric Mixture of a Carboxylic Acid and an Alcohol at 313 K Assisted by Pervaporation via Zeolite Membranes. <i>Chemistry Letters</i> , 2006 , 35, 76-77	1.7	8
24	Nanoscale surface properties of iron treated by electrochemical and physico-chemical methods. <i>Current Applied Physics</i> , 2006 , 6, 448-452	2.6	6
23	Structural changes of a Pd-based membrane during direct hydroxylation of benzene to phenol. <i>Catalysis Today</i> , 2006 , 118, 57-62	5.3	29
22	Emission characteristics of Filons into vacuum from CaF2. <i>Solid State Ionics</i> , 2006 , 177, 1601-1605	3.3	6
21	Synthesis and oxygen permeation properties of 75 mol% Ce0.75Nd0.25O1.875\(\mathbb{Q}\)5 mol% Nd1.8Ce0.2CuO4 composite. <i>Journal of Solid State Electrochemistry</i> , 2006 , 10, 629-634	2.6	9
20	Nonpremixed Flamelet Statistics at Flame Base of Lifted Turbulent Jet Nonpremixed Flames. <i>JSME International Journal Series B</i> , 2005 , 48, 75-82		6
19	A periodic first principle study to design microporous crystal 12MO, 7Al2O3 for selective and active Olfadicals encaging. <i>Chemical Physics Letters</i> , 2004 , 390, 335-339	2.5	4
18	Novel dry-desulfurization process using Ca(OH)2/fly ash sorbent in a circulating fluidized bed. <i>Environmental Science & amp; Technology</i> , 2004 , 38, 6867-74	10.3	55
17	Selective Generation of O- under Atmospheric Pressure. <i>Journal of Chemical Engineering of Japan</i> , 2004 , 37, 758-763	0.8	2
16	Features and mechanism of atomic oxygen radical anion emission from yttria-stabilized zirconia electrolyte. <i>Journal of Catalysis</i> , 2003 , 215, 1-6	7.3	14

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15	High-intensity atomic oxygen radical anion emission mechanism from 12CaOl Al2O3 crystal surface. <i>Surface Science</i> , 2003 , 527, 100-112	1.8	55
14	Desorption of the C2- Anion from the Au L -Deposited Y2O3-Stabilized ZrO2 Surface. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 12465-12471	3.4	
13	Structures of Hydrated Oxygen Anion Clusters: DFT Calculations for O-(H2O)n, O2-(H2O)n, and O3-(H2O)n (n = 04). <i>Journal of Physical Chemistry A</i> , 2003 , 107, 962-967	2.8	24
12	Gas sensing with zeolite-coated quartz crystal microbalancesprincipal component analysis approach. <i>Sensors and Actuators B: Chemical</i> , 2002 , 86, 26-33	8.5	66
11	Sterilization by H2O2 droplets under corona discharge. <i>Journal of Electrostatics</i> , 2002 , 55, 173-187	1.7	43
10	Emissions of OIRadical Anions and Electrons from Silver on a Solid Electrolyte. <i>Journal of Catalysis</i> , 2002 , 209, 256-259	7.3	8
9	Absolute emission current density of Olfrom 12CaO?7Al2O3 crystal. <i>Applied Physics Letters</i> , 2002 , 80, 4259-4261	3.4	74
8	Reproducibility of O- Negative Ion Emission from C12A7 Crystal Surface. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, L530-L532	1.4	18
7	Chain Reaction Mechanism by NOx in SO2 Removal Process. <i>Energy & Description of the Communication of the Communic</i>	4.1	30
6	Electric Field Emission of High Density O[sup IIons from 12CaO?7Al[sub 2]O[sub 3] Engineered to Incorporate Oxygen Radicals. <i>Electrochemical and Solid-State Letters</i> , 2002 , 5, J13		25
5	Continuous Emission of O- Radical Anions from Solid Electrolyte Surface <i>Journal of Chemical Engineering of Japan</i> , 2000 , 33, 557-560	0.8	6
4	Gas-Phase Hydroxyl Radical Emission in the Thermal Decomposition of Lithium Hydroxide. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 1954-1959	3.4	7
3	Synthesis of a faujasite thin layer and its application for SO2 sensing at elevated temperatures. <i>Microporous and Mesoporous Materials</i> , 1998 , 23, 287-294	5.3	38
2	Gas-Phase Hydroxyl Radical Generation by the Surface Reactions over Basic Metal Oxides. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 3185-3191	3.4	12
1	Micro manipulation of cells and DNA molecules. <i>Journal of Electrostatics</i> , 1995 , 35, 83-91	1.7	15