

Naoki Mimura

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

2,313
citations

257450

24
h-index

206112

48
g-index

63
all docs

63
docs citations

63
times ranked

2643
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective catalytic oxidation of glycerol: perspectives for high value chemicals. <i>Green Chemistry</i> , 2011, 13, 1960.	9.0	468
2	Dehydrogenation of ethylbenzene over iron oxide-based catalyst in the presence of carbon dioxide. <i>Catalysis Today</i> , 1998, 45, 61-64.	4.4	147
3	In Situ UV-vis and EPR Study on the Formation of Hydroperoxide Species during Direct Gas Phase Propylene Epoxidation over Au/Ti-SiO ₂ Catalyst. <i>Journal of Physical Chemistry B</i> , 2006, 110, 22995-22999.	2.6	140
4	Oxidative Dehydrogenation of Ethane over Cr/ZSM-5 Catalysts Using CO ₂ as an Oxidant. <i>Journal of Physical Chemistry B</i> , 2006, 110, 21764-21770.	2.6	134
5	High-performance Cr/H-ZSM-5 catalysts for oxidative dehydrogenation of ethane to ethylene with CO ₂ as an oxidant. <i>Catalysis Communications</i> , 2002, 3, 257-262.	3.3	128
6	Dehydrogenation of ethylbenzene to styrene over Fe ₂ O ₃ /Al ₂ O ₃ catalysts in the presence of carbon dioxide. <i>Catalysis Today</i> , 2000, 55, 173-178.	4.4	119
7	Production of Propylene from Ethanol Over ZSM-5 Zeolites. <i>Catalysis Letters</i> , 2009, 131, 364-369.	2.6	113
8	Title is missing!. <i>Catalysis Letters</i> , 1999, 58, 59-62.	2.6	71
9	Catalytic production of sugar alcohols from lignocellulosic biomass. <i>Catalysis Today</i> , 2016, 265, 199-202.	4.4	57
10	Hydrogen Production from Steam Reforming of Hydrocarbons over Alkaline-Earth Metal-Modified Fe- or Ni-Based Catalysts. <i>Energy & Fuels</i> , 2004, 18, 122-126.	5.1	56
11	Gas-phase epoxidation of propylene through radicals generated by silica-supported molybdenum oxide. <i>Applied Catalysis A: General</i> , 2007, 316, 142-151.	4.3	56
12	Dehydrogenation of ethylbenzene in the presence of CO ₂ over an alumina-supported iron oxide catalyst. <i>Applied Catalysis A: General</i> , 2003, 239, 71-77.	4.3	49
13	Cascade Utilization of Biomass: Strategy for Conversion of Cellulose, Hemicellulose, and Lignin into Useful Chemicals. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10445-10451.	6.7	43
14	Title is missing!. <i>Catalysis Letters</i> , 2002, 78, 125-128.	2.6	42
15	Direct production of sugar alcohols from wood chips using supported platinum catalysts in water. <i>Catalysis Communications</i> , 2014, 54, 22-26.	3.3	40
16	Bond cleavage of lignin model compounds into aromatic monomers using supported metal catalysts in supercritical water. <i>Scientific Reports</i> , 2017, 7, 46172.	3.3	40
17	Preparation of nano-sized platinum metal catalyst using photo-assisted deposition method on mesoporous silica including single-site photocatalyst. <i>Applied Surface Science</i> , 2008, 254, 7604-7607.	6.1	39
18	Syntheses of Ti- and Al-containing hexagonal mesoporous silicas for gas-phase epoxidation of propylene by molecular oxygen. <i>Applied Catalysis A: General</i> , 2006, 309, 91-105.	4.3	38

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19	One-pot conversion of cellulose to isosorbide using supported metal catalysts and ion-exchange resin. <i>Catalysis Communications</i> , 2015, 67, 59-63.	3.3	33
20	Hydrogen production by conversion of methane over nickel-supported USY-type zeolite catalysts. <i>Reaction Kinetics and Catalysis Letters</i> , 2002, 77, 109-115.	0.6	31
21	Selective oxidation of propylene to acetone by molecular oxygen over M/2H ₅ ~[PMo10V2O ₄₀]/HMS (M=Cu ²⁺ , Co ²⁺ , Ni ²⁺). <i>Catalysis Communications</i> , 2003, 4, 281-285.	3.3	27
22	Intramolecular dehydration of biomass-derived sugar alcohols in high-temperature water. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 2714-2722.	2.8	27
23	Liquid phase oxidation of glycerol in batch and flow-type reactors with oxygen over Au~Pd nanoparticles stabilized in anion-exchange resin. <i>RSC Advances</i> , 2014, 4, 33416-33423.	3.6	25
24	Conversion of Cellulose to Lactic Acid by Using ZrO ₂ ~Al ₂ O ₃ Catalysts. <i>Catalysts</i> , 2017, 7, 221.	3.5	25
25	Epoxidation of propylene with molecular oxygen/methanol over a catalyst system containing palladium and Ti-modified MCM-22 without hydrogen. <i>Journal of Catalysis</i> , 2003, 220, 513-518.	6.2	23
26	Gas-phase radical generation by Ti oxide clusters supported on silica: application to the direct epoxidation of propylene to propylene oxide using molecular oxygen as an oxidant. <i>Catalysis Letters</i> , 2006, 110, 47-51.	2.6	23
27	Intramolecular dehydration of mannitol in high-temperature liquid water without acid catalysts. <i>RSC Advances</i> , 2014, 4, 45575-45578.	3.6	23
28	Direct epoxidation of propylene by molecular oxygen over Pd(OAc) ₂ ~[(C ₆ H ₁₃) ₄ N] ₃ {PO ₄ [W(O)(O ₂) ₂] ₄ }~CH ₃ OH catalytic system. <i>Applied Catalysis B: Environmental</i> , 2005, 58, 51-59.	20.2	21
29	Microscope Analysis of Au~Pd/TiO ₂ Glycerol Oxidation Catalysts Prepared by Deposition~Precipitation Method. <i>Catalysis Letters</i> , 2014, 144, 2167-2175.	2.6	21
30	5~Hydroxymethylfurfural Production from Glucose, Fructose, Cellulose, or Cellulose~based Waste Material by Using a Calcium Phosphate Catalyst and Water as a Green Solvent. <i>ChemistrySelect</i> , 2017, 2, 1305-1310.	1.5	20
31	Dehydrogenation of ethylbenzene to styrene in the presence of CO ₂ . <i>Applied Organometallic Chemistry</i> , 2000, 14, 773-777.	3.5	18
32	Selective Oxidation of Propylene to Propylene Oxide by Molecular Oxygen over Ti-Al-HMS Catalysts. <i>Catalysis Letters</i> , 2003, 89, 49-53.	2.6	18
33	Methane Decomposition over Iron-based Catalysts in the Presence of O ₂ and CO ₂ . <i>Journal of the Japan Petroleum Institute</i> , 2003, 46, 196-202.	0.6	16
34	Catalysis of nanosized Pd metal catalyst deposited on Ti-containing zeolite by a photo-assisted deposition (PAD) method. <i>Pure and Applied Chemistry</i> , 2007, 79, 2095-2100.	1.9	16
35	Continuous Catalytic Oxidation of Glycerol to Carboxylic Acids Using Nanosized Gold/Alumina Catalysts and a Liquid-Phase Flow Reactor. <i>ACS Omega</i> , 2018, 3, 13862-13868.	3.5	15
36	Direct vapor phase oxidation of propylene by molecular oxygen over MCM-41 or MCM-22 based catalysts. <i>Catalysis Communications</i> , 2003, 4, 385-391.	3.3	14

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37	Continuous production of glyceric acid and lactic acid by catalytic oxidation of glycerol over an Au-Pt/Al ₂ O ₃ bimetallic catalyst using a liquid-phase flow reactor. <i>Catalysis Today</i> , 2021, 375, 191-196.	4.4	14
38	Surface-Initiated Gas-Phase Epoxidation of Propylene with Molecular Oxygen by Silica-Supported Molybdenum Oxide: Effects of Addition of C ₃ H ₈ or NO and Reactor Design. <i>Catalysis Letters</i> , 2008, 121, 33-38.	2.6	13
39	Supercritical water gasification of ethanol production waste over graphite supported ruthenium catalyst. <i>Journal of Molecular Catalysis A</i> , 2014, 388-389, 148-153.	4.8	12
40	Synthesis of methoxysilanes by the reaction of metallic silicon with methanol using copper(II) acetate as the catalyst. <i>Catalysis Letters</i> , 1995, 33, 421-427.	2.6	10
41	Title is missing!. <i>Reaction Kinetics and Catalysis Letters</i> , 2003, 80, 39-44.	0.6	10
42	Effect of Ti-modified mesoporous materials on the direct epoxidation of propylene by molecular oxygen. <i>Catalysis Today</i> , 2004, 91-92, 39-42.	4.4	10
43	One-pot Conversion from Lignocellulosic Biomass to Isosorbide. <i>Journal of the Japan Petroleum Institute</i> , 2016, 59, 155-159.	0.6	9
44	Effect of Metal Catalysts on Bond Cleavage Reactions of Lignin Model Compounds in Supercritical Water. <i>Waste and Biomass Valorization</i> , 2020, 11, 669-674.	3.4	9
45	Dehydrogenation and Isomerization of n-Butane or Isobutane Over Cr Catalysts Supported on Zeolites. <i>Catalysis Letters</i> , 2002, 84, 273-279.	2.6	8
46	Direct conversion of lignocellulosic biomass into aromatic monomers over supported metal catalysts in supercritical water. <i>Molecular Catalysis</i> , 2019, 477, 110557.	2.0	8
47	Dehydrogenation and Isomerization of Butane over Cr Catalysts Supported on H-SSZ-35 Type Zeolites. <i>Bulletin of the Chemical Society of Japan</i> , 2004, 77, 381-386.	3.2	5
48	Preparation and catalysis of nano-sized metal (Pd,Pt) catalysts deposited on Ti-containing zeolite materials by a photo-assisted deposition (PAD) method. <i>Studies in Surface Science and Catalysis</i> , 2007, , 1319-1324.	1.5	4
49	Effect of addition of alkali metal salts in hydrothermal synthesis and post heat-treatment on porosity of SBA-15. <i>Journal of Porous Materials</i> , 2009, 16, 135-140.	2.6	4
50	Production of Propene Oxide by a Homogeneous Chain Reaction Initiated by Surface Radical Generation. <i>E-Journal of Surface Science and Nanotechnology</i> , 2006, 4, 74-77.	0.4	3
51	Kinetic analyses of intramolecular dehydration of hexitols in high-temperature water. <i>Carbohydrate Research</i> , 2020, 487, 107880.	2.3	3
52	Efficient Conversion of Glycerol into High Value-Added Chemicals by Partial Oxidation. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2020, 97, 1365-1370.	1.9	3
53	Magnesium Oxide-Catalyzed Conversion of Chitin to Lactic Acid. <i>ChemistryOpen</i> , 2021, 10, 308-315.	1.9	3
54	Aromatic Monomer Production from Lignin Depolymerization Predicted from Bond Cleavage Data for Lignin Model Compounds. <i>Journal of the Japan Petroleum Institute</i> , 2019, 62, 228-233.	0.6	3

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55	Production of Propylene Oxide by Homogeneous Chain Reaction Initiated by Supported Ti-oxide and Mo-oxide Radical Generators. <i>Studies in Surface Science and Catalysis</i> , 2007, , 389-392.	1.5	2
56	Effect of Catalyst Support on Aromatic Monomer Production from Lignocellulosic Biomass Over Pt-Based Catalysts. <i>Waste and Biomass Valorization</i> , 2021, 12, 6081-6089.	3.4	2
57	Development of High Throughput Screening Method of Ni-supported Catalysts for the Decomposition of Methane to Hydrogen and Carbon. <i>Journal of the Japan Petroleum Institute</i> , 2003, 46, 133-137.	0.6	1
58	Application of Ti-containing mesoporous silica (single-site photocatalyst) and photo-assisted deposition (PAD) method for preparation of nano-sized Pt metal catalyst. <i>Studies in Surface Science and Catalysis</i> , 2007, 165, 777-780.	1.5	1
59	Preparation of zeolite catalysts for dehydrogenation and isomerization of n-butane. <i>Studies in Surface Science and Catalysis</i> , 2000, , 637-645.	1.5	0
60	Dehydrogenation and Isomerization of Butane over Cr Catalysts Supported on H-SSZ-35 Type Zeolites.. <i>ChemInform</i> , 2004, 35, no.	0.0	0
61	Efficient Catalytic Application of Nano-Sized Pt and Pd Metals Synthesized Using a Photo-Assisted Deposition on Single-Site Photocatalyst. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2007, 71, 840-844.	0.4	0
62	Effects of the Promoter into the Fe ₂ O ₃ /Al ₂ O ₃ Catalyst on the Styrene Formation from the Dehydrogenation of Ethylbenzene in the Presence of CO ₂ .. <i>Sekiyu Gakkaishi (Journal of the Japan Tj ETQq0 0 0 rgBT.1Overlock 10 Tf 50</i>		