

Shun Nishimura

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91
papers

3,892
citations

32
h-index

61
g-index

102
ext. papers

4,368
ext. citations

5.6
avg, IF

5.9
L-index

#	Paper	IF	Citations
91	Hydrotalcite-supported gold-nanoparticle-catalyzed highly efficient base-free aqueous oxidation of 5-hydroxymethylfurfural into 2,5-furandicarboxylic acid under atmospheric oxygen pressure. <i>Green Chemistry</i> , 2011 , 13, 824	10	345
90	A one-pot reaction for biorefinery: combination of solid acid and base catalysts for direct production of 5-hydroxymethylfurfural from saccharides. <i>Chemical Communications</i> , 2009 , 6276-8	5.8	279
89	One-Pot Synthesis of 2,5-Diformylfuran from Carbohydrate Derivatives by Sulfonated Resin and Hydrotalcite-Supported Ruthenium Catalysts. <i>ACS Catalysis</i> , 2011 , 1, 1562-1565	13.1	204
88	Characterization, synthesis and catalysis of hydrotalcite-related materials for highly efficient materials transformations. <i>Green Chemistry</i> , 2013 , 15, 2026	10	183
87	Selective hydrogenation of biomass-derived 5-hydroxymethylfurfural (HMF) to 2,5-dimethylfuran (DMF) under atmospheric hydrogen pressure over carbon supported PdAu bimetallic catalyst. <i>Catalysis Today</i> , 2014 , 232, 89-98	5.3	180
86	Direct synthesis of 1,6-hexanediol from HMF over a heterogeneous Pd/ZrP catalyst using formic acid as hydrogen source. <i>ChemSusChem</i> , 2014 , 7, 96-100	8.3	161
85	Syntheses of 5-hydroxymethylfurfural and levoglucosan by selective dehydration of glucose using solid acid and base catalysts. <i>Applied Catalysis A: General</i> , 2010 , 383, 149-155	5.1	159
84	Synthesis of glycerol carbonate from glycerol and dialkyl carbonates using hydrotalcite as a reusable heterogeneous base catalyst. <i>Green Chemistry</i> , 2010 , 12, 578	10	157
83	Upgrading of pyrolysis bio-oil using nickel phosphide catalysts. <i>Journal of Catalysis</i> , 2016 , 333, 115-126	7.3	129
82	Platinum/Gold Alloy Nanoparticles-Supported Hydrotalcite Catalyst for Selective Aerobic Oxidation of Polyols in Base-Free Aqueous Solution at Room Temperature. <i>ACS Catalysis</i> , 2013 , 3, 2199-2207	13.1	109
81	Metal-free oxidative synthesis of succinic acid from biomass-derived furan compounds using a solid acid catalyst with hydrogen peroxide. <i>Applied Catalysis A: General</i> , 2013 , 458, 55-62	5.1	101
80	Production of Valerolactone from biomass-derived compounds using formic acid as a hydrogen source over supported metal catalysts in water solvent. <i>RSC Advances</i> , 2014 , 4, 10525	3.7	93
79	Selective oxidation of glycerol by using a hydrotalcite-supported platinum catalyst under atmospheric oxygen pressure in water. <i>ChemSusChem</i> , 2011 , 4, 542-8	8.3	92
78	The role of negatively charged Au states in aerobic oxidation of alcohols over hydrotalcite supported AuPd nanoclusters. <i>Catalysis Science and Technology</i> , 2013 , 3, 351-359	5.5	82
77	Highly Efficient Aqueous Oxidation of Furfural to Succinic Acid Using Reusable Heterogeneous Acid Catalyst with Hydrogen Peroxide. <i>Chemistry Letters</i> , 2012 , 41, 409-411	1.7	80
76	Catalytic Transformations of Biomass-Derived Materials into Value-Added Chemicals. <i>Catalysis Surveys From Asia</i> , 2012 , 16, 164-182	2.8	79
75	One-pot Formation of Furfural from Xylose via Isomerization and Successive Dehydration Reactions over Heterogeneous Acid and Base Catalysts. <i>Chemistry Letters</i> , 2010 , 39, 838-840	1.7	75

74	Role of base in the formation of silver nanoparticles synthesized using sodium acrylate as a dual reducing and encapsulating agent. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 9335-43	3.6	71
73	One-Pot Synthesis of Furans from Various Saccharides Using a Combination of Solid Acid and Base Catalysts. <i>Bulletin of the Chemical Society of Japan</i> , 2012 , 85, 275-281	5.1	67
72	Synthesis of levulinic acid from fructose using Amberlyst-15 as a solid acid catalyst. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2012 , 106, 185-192	1.6	60
71	High-Throughput Experimentation and Catalyst Informatics for Oxidative Coupling of Methane. <i>ACS Catalysis</i> , 2020 , 10, 921-932	13.1	60
70	X-ray Absorption Near-Edge Structure and X-ray Photoelectron Spectroscopy Studies of Interfacial Charge Transfer in Gold/Silver/Gold Double-Shell Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 4511-4516	3.8	59
69	Hydrolysis of Sugars Using Magnetic Silica Nanoparticles with Sulfonic Acid Groups. <i>Chemistry Letters</i> , 2011 , 40, 1195-1197	1.7	54
68	The Rise of Catalyst Informatics: Towards Catalyst Genomics. <i>ChemCatChem</i> , 2019 , 11, 1146-1152	5.2	52
67	Reductive amination of furfural toward furfurylamine with aqueous ammonia under hydrogen over Ru-supported catalyst. <i>Research on Chemical Intermediates</i> , 2016 , 42, 19-30	2.8	51
66	Base-free chemoselective transfer hydrogenation of nitroarenes to anilines with formic acid as hydrogen source by a reusable heterogeneous Pd/ZrP catalyst. <i>RSC Advances</i> , 2014 , 4, 38241	3.7	48
65	Synthesis of high-value organic acids from sugars promoted by hydrothermally loaded Cu oxide species on magnesia. <i>Applied Catalysis B: Environmental</i> , 2015 , 162, 1-10	21.8	45
64	Unveiling Hidden Catalysts for the Oxidative Coupling of Methane based on Combining Machine Learning with Literature Data. <i>ChemCatChem</i> , 2018 , 10, 3223-3228	5.2	45
63	Hydrotalcite-Supported Platinum Nanoparticles Prepared by a Green Synthesis Method for Selective Oxidation of Glycerol in Water Using Molecular Oxygen. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 16182-16187	3.9	41
62	Promotion effect of coexistent hydromagnesite in a highly active solid base hydrotalcite catalyst for transesterifications of glycols into cyclic carbonates. <i>Catalysis Today</i> , 2012 , 185, 241-246	5.3	39
61	In situ time-resolved XAFS study on the formation mechanism of Cu nanoparticles using poly(N-vinyl-2-pyrrolidone) as a capping agent. <i>Langmuir</i> , 2010 , 26, 4473-9	4	38
60	One-pot synthesis of furfural derivatives from pentoses using solid acid and base catalysts. <i>Catalysis Science and Technology</i> , 2014 , 4, 971-978	5.5	33
59	Synthesis of Amino acids from glucosamine-HCl and its derivatives by aerobic oxidation in water catalyzed by Au nanoparticles on basic supports. <i>ChemSusChem</i> , 2013 , 6, 2259-62	8.3	32
58	Recent Advances in Heterogeneous Catalysis with Controlled Nanostructured Precious Monometals. <i>ChemCatChem</i> , 2016 , 8, 2303-2316	5.2	30
57	Gold Nanoparticles Supported on Alumina as a Catalyst for Surface Plasmon-Enhanced Selective Reductions of Nitrobenzene. <i>ACS Omega</i> , 2017 , 2, 7066-7070	3.9	29

56	Preparation of zirconium carbonate as water-tolerant solid base catalyst for glucose isomerization and one-pot synthesis of levulinic acid with solid acid catalyst. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2014 , 111, 183-197	1.6	29
55	Tailored design of palladium species grafted on an amino functionalized organozinc coordination polymer as a highly pertinent heterogeneous catalyst. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 18687-18696	13.6	27
54	Genesis of Catalytically Active Gold Nanoparticles Supported on Hydrotalcite for Base-free Selective Oxidation of Glycerol in Water with Molecular Oxygen. <i>Chemistry Letters</i> , 2011 , 40, 150-152	1.7	27
53	One-pot conversions of raffinose into furfural derivatives and sugar alcohols by using heterogeneous catalysts. <i>ChemSusChem</i> , 2014 , 7, 260-7	8.3	26
52	Data Driven Determination of Reaction Conditions in Oxidative Coupling of Methane via Machine Learning. <i>ChemCatChem</i> , 2019 , 11, 4307-4313	5.2	25
51	Novel catalytic behavior of Cu/Al ₂ O ₃ catalyst against daily start-up and shut-down (DSS)-like operation in the water gas shift reaction. <i>Applied Catalysis A: General</i> , 2010 , 387, 185-194	5.1	25
50	Highly Selective Synthesis of 1,4-Butanediol via Hydrogenation of Succinic Acid with Supported CuPd Alloy Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 18483-18492	8.3	21
49	Effect of Stabilizing Polymers on Catalysis of Hydrotalcite-Supported Platinum Nanoparticles for Aerobic Oxidation of 1,2-Propanediol in Aqueous Solution at Room Temperature. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 11723-11730	3.8	20
48	High sustainability of Cu/Al ₂ O ₃ catalysts against daily start-up and shut-down (DSS)-like operation in the water gas shift reaction. <i>Catalysis Communications</i> , 2009 , 10, 1057-1061	3.2	18
47	Monodisperse Iron Oxide Nanoparticles Embedded in Mg/Al Hydrotalcite as a Highly Active, Magnetically Separable, and Recyclable Solid Base Catalyst. <i>Bulletin of the Chemical Society of Japan</i> , 2010 , 83, 846-851	5.1	18
46	Fine-crystallized LDHs prepared with SiO ₂ spheres as highly active solid base catalysts. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6947-6957	13	17
45	Direct Hydroxymethylation of Furaldehydes with Aqueous Formaldehyde over a Reusable Sulfuric Functionalized Resin Catalyst. <i>ACS Omega</i> , 2018 , 3, 5988-5993	3.9	15
44	Aerobic Oxidation of 5-Hydroxymethylfurfural into 2,5-Furandicarboxylic Acid over Gold Stabilized on Zirconia-Based Supports. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 7150-7161	8.3	14
43	One-pot Synthesis of Furfural from Xylose using Al ₂ O ₃ /Ni-Al Layered Double Hydroxide Acid-Base Bi-functional Catalyst and Sulfonated Resin. <i>Chemistry Letters</i> , 2016 , 45, 194-196	1.7	14
42	Selective Oxidation of 1,6-Hexanediol to 6-Hydroxycaproic Acid over Reusable Hydrotalcite-Supported Au-Pd Bimetallic Catalysts. <i>ChemSusChem</i> , 2015 , 8, 1862-6	8.3	14
41	Synthesis of Formic Acid from Monosaccharides Using Calcined Mg-Al Hydrotalcite as Reusable Catalyst in the Presence of Aqueous Hydrogen Peroxide. <i>Organic Process Research and Development</i> , 2015 , 19, 449-453	3.9	13
40	Data-Driven Identification of the Reaction Network in Oxidative Coupling of the Methane Reaction via Experimental Data. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 787-795	6.4	13
39	Direct esterification of succinic acid with phenol using zeolite beta catalyst. <i>Catalysis Communications</i> , 2019 , 122, 20-23	3.2	13

38	Transfer hydrogenation of furfuraldehydes with sodium phosphinate as a hydrogen source using Pd-supported alumina catalyst. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017 , 79, 97-102	5.3	12
37	Genesis of a bi-functional acid/base site on a Cr-supported layered double hydroxide catalyst surface for one-pot synthesis of furfurals from xylose with a solid acid catalyst. <i>Catalysis Science and Technology</i> , 2016 , 6, 8200-8211	5.5	12
36	Hydrothermal Preparation of a Robust Boehmite-Supported N,N-Dimethyldodecylamine N-Oxide-Capped Cobalt and Palladium Catalyst for the Facile Utilization of Formic Acid as a Hydrogen Source. <i>ChemCatChem</i> , 2015 , 7, 2361-2369	5.2	12
35	In situ observation of the dynamic behavior of Cu ₂ O catalysts for water gas shift reaction during daily start-up and shut-down (DSS)-like operation. <i>Catalysis Science and Technology</i> , 2012 , 2, 1685-1695	5.5	12
34	Selective synthesis of 3-methyl-2-cyclopentenone via intramolecular aldol condensation of 2,5-hexanedione with Al ₂ O ₃ /AlOOH nanocomposite catalyst. <i>Fuel Processing Technology</i> , 2019 , 196, 106185	7.2	11
33	Hydroxymethylation of Furfural to HMF with Aqueous Formaldehyde over Zeolite Beta Catalyst. <i>Catalysts</i> , 2019 , 9, 314	4	10
32	MgO-ZrO Mixed Oxides as Effective and Reusable Base Catalysts for Glucose Isomerization into Fructose in Aqueous Media. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 294-300	4.5	10
31	Revisiting Machine Learning Predictions for Oxidative Coupling of Methane (OCM) based on Literature Data. <i>ChemCatChem</i> , 2020 , 12, 5888-5892	5.2	10
30	Selective Oxidation of Biomass-derived Alcohols with Supported Metal Catalysts. <i>Journal of the Japan Petroleum Institute</i> , 2017 , 60, 72-84	1	8
29	Direct design of active catalysts for low temperature oxidative coupling of methane via machine learning and data mining. <i>Catalysis Science and Technology</i> , 2021 , 11, 524-530	5.5	8
28	Surfactant-Assisted Suzuki-Miyaura Coupling Reaction of Unreactive Chlorobenzene over Hydrotalcite-Supported Palladium Catalyst. <i>Asian Journal of Organic Chemistry</i> , 2017 , 6, 274-277	3	7
27	Change in reactivity of differently capped AuPd bimetallic nanoparticle catalysts for selective oxidation of aliphatic diols to hydroxycarboxylic acids in basic aqueous solution. <i>Catalysis Today</i> , 2016 , 265, 231-239	5.3	7
26	Effect of support on the formation of CuPd alloy nanoparticles for the hydrogenation of succinic acid. <i>Applied Catalysis B: Environmental</i> , 2021 , 282, 119619	21.8	7
25	Aqueous Oxidation of Sugars into Sugar Acids Using Hydrotalcite-supported Gold Nanoparticle Catalyst under Atmospheric Molecular Oxygen. <i>Chemistry Letters</i> , 2016 , 45, 843-845	1.7	6
24	Selective aerobic oxidation of 1,3-propanediol to 3-hydroxypropanoic acid using hydrotalcite supported bimetallic gold nanoparticle catalyst in water 2015 ,		5
23	Data science assisted investigation of catalytically active copper hydrate in zeolites for direct oxidation of methane to methanol using HO. <i>Scientific Reports</i> , 2021 , 11, 2067	4.9	5
22	Catalytic oxidation of methane to methanol over Cu-CHA with molecular oxygen. <i>Catalysis Science and Technology</i> , 2021 , 11, 6217-6224	5.5	5
21	Effect of SiO amount on heterogeneous base catalysis of SiO@Mg-Al layered double hydroxide.. <i>RSC Advances</i> , 2018 , 8, 28024-28031	3.7	4

20	Representing the Methane Oxidation Reaction via Linking First-Principles Calculations and Experiment with Graph Theory. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 558-568	6.4	4
19	Properties of bio-oil generated by a pyrolysis of forest cedar residuals with the movable Auger-type reactor 2016 ,		4
18	Catalytic Conversions of Biomass-Derived Furaldehydes Toward Biofuels 2017 ,		3
17	Selective Oxidation of Methane to Formaldehyde over a Silica-Supported Cobalt Single-Atom Catalyst. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 1785-1792	3.8	3
16	Factors to influence low-temperature performance of supported Mn γ 2WO4 in oxidative coupling of methane. <i>Molecular Catalysis</i> , 2021 , 516, 111976	3.3	2
15	Influence of metal ratio on alumina-supported CuPd catalysts for the production of tetrahydrofuran from succinic acid. <i>Applied Catalysis A: General</i> , 2021 , 616, 118063	5.1	2
14	Catalytic direct oxidation of methane to methanol by redox of copper mordenite. <i>Catalysis Science and Technology</i> , 2021 , 11, 3437-3446	5.5	2
13	Bimetallic PdCu Nanoparticle Catalyst Supported on Hydrotalcite for Selective Aerobic Oxidation of Benzyl Alcohol. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1760, 157		1
12	Preparation and Evaluation of Bimetallic Au Nano-Catalyst with Aerobic Oxidation of 1-Phenylethanol. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1758, 56		1
11	Mechanistic Studies of Solid Acids and Base-Catalyzed Clean Technologies 2013 , 125-171		1
10	Fe(III)-Exchanged Montmorillonite as Reusable Heterogeneous Protonic Acid Catalyst for Michael Addition of Indole in Water. <i>ChemistrySelect</i> , 2017 , 2, 10814-10817	1.8	1
9	Relationships among the Catalytic Performance, Redox Activity, and Structure of Cu-CHA Catalysts for the Direct Oxidation of Methane to Methanol Investigated Using In Situ XAFS and UVVis Spectroscopies. <i>ACS Catalysis</i> , 2454-2462	13.1	1
8	High-Throughput Screening and Literature Data Driven Machine Learning Assisting Investigation of Multi-component La2O3-based Catalysts for Oxidative Coupling of Methane. <i>Catalysis Science and Technology</i> ,	5.5	1
7	Reductive Amination of 5-Hydroxymethyl-2-furaldehyde Over Beta Zeolite-Supported Ruthenium Catalyst. <i>Catalysis Letters</i> , 1	2.8	1
6	Formic Acid as a Hydrogen Source for the Additive-Free Reduction of Aromatic Carbonyl and Nitrile Compounds at Reusable Supported Pd Catalysts. <i>Catalysts</i> , 2020 , 10, 875	4	1
5	Tailoring Graphene Oxide Framework with N- and S- Containing Organic Ligands for the Confinement of Pd Nanoparticles Towards Recyclable Catalyst Systems. <i>Catalysis Letters</i> , 2021 , 151, 247-254	2.8	1
4	Performance of compact fast pyrolysis reactor with Auger-type modules for the continuous liquid biofuel production 2018 ,		1
3	Boehmite-derived Aluminum Oxide Catalyst for a Continuous Intramolecular Aldol Condensation of 2,5-Hexanedione to 3-Methyl-2-cyclopentenone in a Liquid-flow Reactor System. <i>Chemistry Letters</i> , 2022 , 51, 131-134	1.7	0

2 Design and Control of Bioinspired Millibots. *Advanced Intelligent Systems*, **2020**, 2, 2000059 6

1 Synthesis of Glycidamide from Acrylonitrile Using Basic Hydrotalcite Catalyst in the Presence of Aqueous Hydrogen Peroxide and Unsaturated Amide. *Chemistry Letters*, **2014**, 43, 1716-1718 1.7