Yuichi Kamiya

List of Publications by Year
in descending order

103	2,061	279798	289244
papers	citations	23 h-index	40 g-index

109	109	109	2177
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Waterâ€Tolerant, Highly Active Solid Acid Catalysts Composed of the Keggināâ€Type Polyoxometalate H₃PW₁₂O₄₀ Immobilized in Hydrophobic Nanospaces of Organomodified Mesoporous Silica. Angewandte Chemie - International Edition, 2007, 46, 7625-7628.	13.8	166
2	Catalytic Chemistry of Supported Heteropolyacids and Their Applications as Solid Acids to Industrial Processes. Catalysis Surveys From Asia, 2008, 12, 101-113.	2.6	90
3	Adsorption and Catalytic Properties of the Inner Nanospace of a Gigantic Ringâ€Shaped Polyoxometalate Cluster. Angewandte Chemie - International Edition, 2009, 48, 8703-8706.	13.8	85
4	Zirconium Phosphate with a High Surface Area as a Water-Tolerant Solid Acid. Catalysis Letters, 2004, 94, 45-47.	2.6	84
5	Catalytic oxidation of methacrolein to methacrylic acid over silica-supported 11-molybdo-1-vanadophosphoric acid with different heteropolyacid loadings. Journal of Catalysis, 2010, 273, 1-8.	6.2	80
6	Combining the Photocatalyst Pt/TiO₂ and the Nonphotocatalyst SnPd/Al₂O₃ for Effective Photocatalytic Purification of Groundwater Polluted with Nitrate. ACS Catalysis, 2014, 4, 2207-2215.	11.2	58
7	Disassembling Single-walled Carbon Nanotube Bundles by Dipole/Dipole Electrostatic Interactions. Chemistry Letters, 2005, 34, 1218-1219.	1.3	54
8	Modification of Sn-Beta zeolite: characterization of acidic/basic properties and catalytic performance in Baeyerâ€“Villiger oxidation. Catalysis Science and Technology, 2016, 6, 2787-2795.	4.1	54
9	Catalytic oxidation of ammonium ion in water with ozone over metal oxide catalysts. Catalysis Today, 2014, 232, 192-197.	4.4	53
10	Selective hydrogenation of nitrate to nitrite in water over Cu-Pd bimetallic clusters supported on active carbon. Journal of Molecular Catalysis A, 2006, 250, 80-86.	4.8	45
11	Alkylationâ€“acylation of p-xylene with Î³-butyrolactone or vinylacetic acid catalyzed by heteropolyacid supported on silica. Journal of Molecular Catalysis A, 2007, 262, 77-85.	4.8	44
12	Dimethylpyridine-temperature programmed desorption (DMP-TPD) for measurement of strength of BrÃ¸nsted and Lewis acid sites on metal oxide catalysts. Applied Catalysis A: General, 2000, 194-195, 253-263.	4.3	43
13	Remediation of actual groundwater polluted with nitrate by the catalytic reduction over copperâ€“palladium supported on active carbon. Applied Catalysis A: General, 2009, 361, 123-129.	4.3	43
14	The average Pd oxidation state in Pd/SiO2 quantified by L3-edge XANES analysis and its effects on catalytic activity for CO oxidation. Catalysis Science and Technology, 2012, 2, 767.	4.1	42
15	Highly effective photocatalytic system comprising semiconductor photocatalyst and supported bimetallic non-photocatalyst for selective reduction of nitrate to nitrogen in water. Catalysis Communications, 2012, 20, 99-102.	3.3	42
16	Combinational effect of Pt/SrTiO3:Rh photocatalyst and SnPd/Al2O3 non-photocatalyst for photocatalytic reduction of nitrate to nitrogen in water under visible light irradiation. Applied Catalysis B: Environmental, 2014, 144, 721-729.	20.2	38
17	Chitosan-functionalized natural magnetic particle@silica modified with (3-chloropropyl)trimethoxysilane as a highly stable magnetic adsorbent for gold(III) ion. Materials Chemistry and Physics, 2020, 255, 123507.	4.0	34
18	Quantitative determination of average rhodium oxidation state by a simple XANES analysis. Applied Catalysis B: Environmental, 2012, 111-112, 509-514.	20.2	33

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19	11-Molybdo-1-vanadophosphoricacid H4PMo11VO40 supported on ammonia-modified silica as highly active and selective catalyst for oxidation of methacrolein. Catalysis Communications, 2011, 13, 59-62.	3.3	32
20	Gas-phase hydration of ethene over tungstenaâ€“zirconia. Applied Catalysis A: General, 2004, 259, 199-205.	4.3	31
21	Characterization of sulfated zirconia prepared using reference catalysts and application to several model reactions. Applied Catalysis A: General, 2009, 360, 89-97.	4.3	27
22	Selective oxidation of n-butane in the presence of vanadyl pyrophosphates synthesized by intercalationâ€“exfoliationâ€“reduction of layered VOPO4Â·2H2O in 2-butanol. Journal of Catalysis, 2004, 221, 225-233.	6.2	26
23	Preparation of catalyst precursors for selective oxidation of n-butane by exfoliationâ€“reduction of VOPO4Â·2H2O in primary alcohol. Catalysis Today, 2003, 78, 281-290.	4.4	25
24	Hydration of Î±-pinene over hydrophobic zeolites in 1,4-dioxane-water and in water. Microporous and Mesoporous Materials, 2007, 101, 176-183.	4.4	25
25	Direct addition of acetic acid to ethylene to form ethyl acetate in the presence of H4SiW12O40/SiO2. Applied Catalysis A: General, 2008, 344, 55-60.	4.3	25
26	Magneli-Phase Titanium Suboxide Nanocrystals as Highly Active Catalysts for Selective Acetalization of Furfural. ACS Applied Materials & Interfaces, 2020, 12, 2539-2547.	8.0	23
27	Highly Selective Hydrogenation of Nitrate to Harmless Compounds in Water Over Copperâ€“Palladium Bimetallic Clusters Supported on Active Carbon. Catalysis Letters, 2008, 125, 392-395.	2.6	22
28	Bimodal cesium hydrogen salts of 12-tungstosilicic acid, Cs H4â^'SiW12O40, as highly active solid acid catalysts for transesterification of glycerol tributyrate with methanol. Journal of Catalysis, 2014, 318, 34-42.	6.2	21
29	Acidity-attenuated heteropolyacid catalysts: Acidity measurement using benzonitrile-TPD and catalytic performance in the skeletal isomerization of n-heptane. Catalysis Today, 2006, 116, 179-183.	4.4	20
30	Selective oxidation of n-butane over nanosized crystallites of (VO)2P2O7 synthesized by an exfoliationâ€“reduction process of VOPO4â‹…2H2O in a mixture of 2-butanol and ethanol. Journal of Catalysis, 2007, 251, 195-203.	6.2	20
31	Changes in Surface Acidity of Silica-Supported Dodecatungstosilicic Acid in Relation to the Loading Amount. Journal of Physical Chemistry C, 2011, 115, 14762-14769.	3.1	20
32	Catalytic property of vanadyl pyrophosphates for selective oxidation of n-butane at high n-butane concentrations. Applied Catalysis A: General, 2001, 206, 103-112.	4.3	19
33	Cs-Beta with an Al-rich composition as a highly active base catalyst for Knoevenagel condensation. Applied Catalysis A: General, 2019, 575, 20-24.	4.3	19
34	Tin-palladium supported on alumina as a highly active and selective catalyst for hydrogenation of nitrate in actual groundwater polluted with nitrate. Catalysis Science and Technology, 2018, 8, 4985-4993.	4.1	18
35	Mechanistic study on skeletal isomerization of n-butane using 1,4-13C2-n-butane on typical solid acids and their Pt-promoted bifunctional catalysts. Journal of Molecular Catalysis A, 2004, 209, 145-153.	4.8	17
36	Reaction path for oxidation of ethylene to acetic acid over Pd/WO3â€“ZrO2 in the presence of water. Catalysis Letters, 2005, 101, 225-228.	2.6	17

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37	Improved catalytic activity using water for isomerization of linear butene to isobutene over heteropolyacid catalysts. Journal of Catalysis, 2008, 254, 263-271.	6.2	17
38	Microporous Acidic Cesium Salt of 12-Tungstosilicic Acid Cs3HSiW12O40 as a Size-selective Solid Acid Catalyst. Chemistry Letters, 2010, 39, 881-883.	1.3	17
39	Alkylation of 1,3,5-trimethylbenzene with Î³-butyrolactone over heteropolyacid catalysts. Applied Catalysis A: General, 2003, 255, 337-344.	4.3	16
40	Preferential oligomerization of isobutene in mixtures of isobutene and 1-butene over 12-tungstosilicic acid supported on silica. Applied Catalysis A: General, 2009, 353, 68-73.	4.3	16
41	Highly selective and efficient photocatalytic reduction of nitrate in water by a tandem reaction system consisting of Pt/TiO 2 and SnPd/Al 2 O 3 : A comparative study of the tandem reaction system with a typical semiconductor photocatalyst, SnPd/TiO 2. Journal of Catalysis, 2017, 348, 306-313.	6.2	16
42	STRAD project for systematic treatments of radioactive liquid wastes generated in nuclear facilities. Progress in Nuclear Energy, 2019, 117, 103090.	2.9	16
43	Cs2.5H0.5PW12O40Bonded to an Amine Functionalized SiO2as an Excellent Water-tolerant Solid Acid. Chemistry Letters, 2005, 34, 1376-1377.	1.3	15
44	The role of steam in selective oxidation of methacrolein over H3PMo12O40. Applied Catalysis A: General, 2019, 570, 164-172.	4.3	15
45	Alkyl decorated metalâ€“organic frameworks for selective trapping of ethane from ethylene above ambient pressures. Dalton Transactions, 2021, 50, 10423-10435.	3.3	15
46	Selective Dehydration of 1,2-Propanediol to Propanal over Boron Phosphate Catalyst in the Presence of Steam. ACS Sustainable Chemistry and Engineering, 2019, 7, 3027-3033.	6.7	14
47	Kinetic and thermodynamic study on adsorption of lead(II) ions in water over dithizone-immobilized coal bottom ash. Materials Chemistry and Physics, 2022, 282, 126005.	4.0	14
48	Highly porous vanadium phosphorus oxides derived from vanadyl n-butylphosphate. Microporous and Mesoporous Materials, 2002, 54, 277-283.	4.4	13
49	Pd/WO3â€“ZrO2as an Efficient Catalyst for the Selective Oxidation of Ethylene to Acetic Acid in the Vapor Phase. Chemistry Letters, 2005, 34, 642-643.	1.3	13
50	Microstructures of V-P-O catalysts derived from VOHPO4Â·0.5H2O of different crystallite sizes. Journal of Molecular Catalysis A, 2004, 220, 103-112.	4.8	12
51	Palladiumâ€“Copper/Hydrophobic Active Carbon as a Highly Active and Selective Catalyst for Hydrogenation of Nitrate in Water. Chemistry Letters, 2007, 36, 994-995.	1.3	12
52	Transformation of nano-sized vanadyl hydrogen phosphate hemihydrate crystallites to vanadyl pyrophosphate during activation in the presence of n-butane and oxygen. Journal of Catalysis, 2008, 255, 213-219.	6.2	12
53	Observation of microporous cesium salts of 12-tungstosilicic acid using scanning transmission electron microscopy. Chemical Communications, 2015, 51, 9975-9978.	4.1	12
54	Ammonia-treated metal oxides as base catalysts for selective isomerization of glucose in water. Molecular Catalysis, 2019, 475, 110479.	2.0	12

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55	Strong BrÃ¸nsted acid-modified chromium oxide as an efficient catalyst for the selective oxidation of methacrolein to methacrylic acid. Catalysis Communications, 2019, 125, 43-47.	3.3	12
56	Cuâ€“Pd Bimetallic Cluster/AC as a Novel Catalyst for the Reduction of Nitrate to Nitrite. Chemistry Letters, 2004, 33, 908-909.	1.3	11
57	A Two-stage Catalytic Process with Cuâ€“Pd Cluster/Active Carbon and Pd/Î²-Zeolite for Removal of Nitrate in Water. Chemistry Letters, 2005, 34, 1510-1511.	1.3	11
58	Preferential oligomerization of isobutene in a mixture of isobutene and 1-butene over sodium-modified 12-tungstosilicic acid supported on silica. Journal of Molecular Catalysis A, 2010, 326, 107-112.	4.8	11
59	Microporous cesium salts of tetravalent Keggin-type polyoxotungstates Cs4[SiW12O40], Cs4[PW11O39(Sn-n-C4H9)], and Cs4[PW11O39(Sn-OH)] and their adsorption properties. Microporous and Mesoporous Materials, 2013, 174, 34-43.	4.4	11
60	The role of cobalt oxide or magnesium oxide in ozonation of ammonia nitrogen in water. Applied Catalysis A: General, 2020, 596, 117515.	4.3	11
61	Determination of the Acid Strength of Binary Oxide Catalysts Using Temperature-Programmed Desorption of Pyridine. Bulletin of the Chemical Society of Japan, 1997, 70, 1311-1317.	3.2	10
62	Selective oxidation of n-butane over iron-doped vanadyl pyrophosphate prepared from lamellar vanadyl n-hexylphosphate. Applied Catalysis A: General, 2003, 253, 1-13.	4.3	10
63	Acid site-assisted vapor-phase oxidation of ethene to acetic acid over palladium with silica-supported tungstosilicic acid and tungstated zirconia. Applied Catalysis A: General, 2008, 350, 103-110.	4.3	10
64	Determination of Acid Site Location in Dealuminated MCM-68 by ²⁷Al MQMAS NMR and FT-IR Spectroscopy with Probe Molecules. Journal of Physical Chemistry C, 2018, 122, 1180-1191.	3.1	10
65	Ultrahigh-Pressure Preparation and Catalytic Activity of MOF-Derived Cu Nanoparticles. Nanomaterials, 2021, 11, 1040.	4.1	10
66	Mesostructured vanadium phosphorus oxides assembled with exfoliated VOPO4 nanosheets. Microporous and Mesoporous Materials, 2005, 81, 49-57.	4.4	9
67	Effect of Fe dopant on the physico-chemical and catalytic properties of vanadyl pyrophosphate catalysts. Reaction Kinetics and Catalysis Letters, 2005, 84, 271-278.	0.6	9
68	Nano-sized crystallites of vanadyl pyrophosphate as a highly selective catalyst for n-butane oxidation. Catalysis Letters, 2006, 111, 159-163.	2.6	9
69	SrFe_{1â^'x}Sn_xO_{3â^'Î´} nanoparticles with enhanced redox properties for catalytic combustion of benzene. Catalysis Science and Technology, 2020, 10, 6342-6349.	4.1	8
70	Catalytic reduction of nitrate in water over alumina-supported nickel catalyst toward purification of polluted groundwater. Catalysis Today, 2020, 352, 204-211.	4.4	8
71	Ceria-supported palladium as a highly active and selective catalyst for oxidative decomposition of ammonium ion in water with ozone. Catalysis Communications, 2021, 149, 106204.	3.3	8
72	Synthesis of Novel Layered Vanadyl Alkylphosphates as Catalyst Precursors for Selective Oxidation of n-Butane.. Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute), 2001, 44, 265-266.	0.1	7

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73	Insertion of iron-complex to lamellar vanadyl benzylphosphate for preparation of well-defined catalyst. Catalysis Today, 2001, 71, 161-167.	4.4	7
74	Toward Green and Sustainable Chemical Glycosylation: Enhanced Lewis Acidity of Recyclable Solid Super Acid Catalyst, SO4/ZrO2 by CaCl2 Doping. Journal of Carbohydrate Chemistry, 2011, 30, 575-586.	1.1	7
75	Oxidation of n-butane over vanadyl pyrophosphates prepared from lamellar vanadyl alkylphosphates. Catalysis Today, 2001, 71, 129-135.	4.4	6
76	Preparation and Characterization of Lamellar Vanadyl Alkylphosphates as Catalyst Precursors for the Selective Oxidation of Butane. Bulletin of the Chemical Society of Japan, 2003, 76, 837-846.	3.2	6
77	Hydration of Î±-Pinene in a Triphasic System Consisting of Î±-Pinene, Water, and Cs2.5H0.5PW12O40â€“SiO2Composite. Chemistry Letters, 2006, 35, 1346-1347.	1.3	6
78	Kinetic Studies on the Promotional Effect of Te in Pdâ€“Teâ€“H4SiW12O40/SiO2 for Direct Oxidation of Ethylene to Acetic Acid. Catalysis Letters, 2007, 119, 252-256.	2.6	6
79	Enhancement of Catalytic Activity of Cobalt Oxide for Catalytic Ozonation of Ammonium Ion in Water with Repeated Use. Journal of the Japan Petroleum Institute, 2016, 59, 31-34.	0.6	6
80	Radical Type Catalytic Oxidation of Butane at Low Temperatures overin-situPrepared Silica Species. Chemistry Letters, 1997, 26, 1051-1052.	1.3	5
81	Cs2.5H0.5PW12O40 Nanoparticles Fixed on Silica Encapsulating Magnetic Iron Oxide as a Magnetically Separable Water-tolerant Solid Acid. Chemistry Letters, 2009, 38, 736-737.	1.3	5
82	Highly Selective Sorption of Small Polar Molecules by a Nonporous Ionic Crystal of a Lacunary Keggin-type Heteropoly Anion and Alkali Metal Cations. Chemistry Letters, 2012, 41, 331-333.	1.3	5
83	Effect of water vapor on the transformation of VOHPO4Â·0.5H2O into (VO)2P2O7. Applied Catalysis A: General, 2006, 297, 73-80.	4.3	4
84	A Highly Waterâ€Tolerant Magnesium(II) Coordination Polymer Derived from a Flexible Layered Structure. Chemistry - A European Journal, 2016, 22, 11042-11047.	3.3	4
85	Octyl and propylsulfonic acid co-fixed Fe3O4@SiO2 as a magnetically separable, highly active and reusable solid acid catalyst in water. Molecular Catalysis, 2019, 475, 110248.	2.0	4
86	A Reliable Method to Create Adjacent Acid-Base Pair Sites on Silica through Hydrolysis of Pre-anchored Amide. Chemistry Letters, 2020, 49, 71-74.	1.3	4
87	Oxidation of Ammonia Nitrogen with Ozone in Water: A Mini Review. Journal of the Indonesian Chemical Society, 2020, 3, 17.	0.3	4
88	Catalytic dehydration of pentaerythritol to dipentaerythritol over heteropoly compounds. Applied Catalysis A: General, 2003, 253, 29-32.	4.3	3
89	Physico-chemicals and catalytic properties of manganese-promoted vanadium phosphate (VPO) catalyst. Reaction Kinetics and Catalysis Letters, 2007, 92, 275-284.	0.6	3
90	A rapid synthesis of Hf-Beta zeolite as highly active catalyst for Meerwein-Ponndorf-Verley reduction by controlling water content of precursor gel. Microporous and Mesoporous Materials, 2022, 333, 111743.	4.4	3

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91	Hydroconversion of Dimethylpentanes from Methylcyclohexane Using Two Consecutive Reactors Packed with Pt-modified Solid Acid Catalyst and Supported Ir Catalyst. Journal of the Japan Petroleum Institute, 2009, 52, 341-350.	0.6	2
92	Selective Oxidation of <i>n</i>-Butane over Highly Crystalline Vanadyl Pyrophosphate Catalyst Synthesized by Intercalation-exfoliation-reduction of Layered Vanadyl Phosphate Dihydrate. Journal of the Japan Petroleum Institute, 2009, 52, 81-89.	0.6	2
93	Oxidative decomposition of ammonium ion with ozone in the presence of cobalt and chloride ions for the treatment of radioactive liquid waste. Progress in Nuclear Energy, 2021, 139, 103872.	2.9	2
94	Promotional effect of Te for Direct Oxidation of Ethylene ower Pd-H4SiWi12O40/SiO2. Studies in Surface Science and Catalysis, 2007, , 557-558.	1.5	1
95	Synthesis of (VO)2P2O7 catalystsvia exfoliation-reduction of VOPO4Â·2H2O in butanol in the presence of ethanol. Research on Chemical Intermediates, 2008, 34, 669-677.	2.7	1
96	Control of nano-sized interlayer space of lamellar vanadyl benzylphosphate. Microporous and Mesoporous Materials, 2008, 110, 528-533.	4.4	1
97	Sulfated Zirconia-supported Palladium as a Highly Active and Highly Selective Catalyst for the Oxidation of Ethylene in the Vapor Phase. Chemistry Letters, 2009, 38, 222-223.	1.3	1
98	Drastic change in selectivity caused by addition of oxygen to the hydrogen stream for the hydrogenation of nitrite in water over a supported platinum catalyst. Catalysis Science and Technology, 2019, 9, 4017-4022.	4.1	1
99	Highly Effective Magnetic Silica-Chitosan Hybrid for Sulfate Ion Adsorption. Environmental Science and Engineering, 2021, , 203-216.	0.2	1
100	Elucidation of Detailed Pore Structure of (NH4)4SiW12O40 Sponge Crystal. Chemistry Letters, 2021, 50, 1736-1739.	1.3	1
101	Selective oxidation of n-butane over Fe-promoted vanadyl pyrophosphate prepared from modification of nano-sized interlayer of lamellar vanadyl benzylphosphate. Research on Chemical Intermediates, 2008, 34, 455-465.	2.7	0
102	Catalytic Oxidation of Ammonium Ions with Nitrite Ions in Water over Metallic Platinum Supported on Titanium Dioxide at a Mild Reaction Temperature. Chemistry Letters, 2008, 37, 1024-1025.	1.3	0
103	Heterogeneous Catalysts for Environmental Purification. Handbook of Environmental Chemistry, 2022, , 1.	0.4	0