

Yuichi Ichihashi

List of Publications by Year in descending order

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101
papers

4,903
citations

126907

33
h-index

91884

69
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101
all docs

101
docs citations

101
times ranked

4489
citing authors

#	ARTICLE	IF	CITATIONS
1	Photocatalytic reduction of CO ₂ with H ₂ O on various titanium oxide catalysts. Journal of Electroanalytical Chemistry, 1995, 396, 21-26.	3.8	423
2	Photocatalytic Reduction of CO ₂ with H ₂ O on Titanium Oxides Anchored within Micropores of Zeolites: Effects of the Structure of the Active Sites and the Addition of Pt. Journal of Physical Chemistry B, 1997, 101, 2632-2636.	2.6	395
3	Photocatalytic reduction of CO ₂ with H ₂ O on Ti-MCM-41 and Ti-MCM-48 mesoporous zeolite catalysts. Catalysis Today, 1998, 44, 327-332.	4.4	324
4	Selective formation of CH ₃ OH in the photocatalytic reduction of CO ₂ with H ₂ O on titanium oxides highly dispersed within zeolites and mesoporous molecular sieves. Catalysis Today, 1998, 45, 221-227.	4.4	251
5	Photocatalytic Decomposition of NO at 275 K on Titanium Oxides Included within Y-Zeolite Cavities: The Structure and Role of the Active Sites. The Journal of Physical Chemistry, 1996, 100, 16041-16044.	2.9	242
6	Preparation of Titanium Oxide Photocatalysts Anchored on Porous Silica Glass by a Metal Ion-Implantation Method and Their Photocatalytic Reactivities for the Degradation of 2-Propanol Diluted in Water. Journal of Physical Chemistry B, 1998, 102, 10707-10711.	2.6	232
7	Design of unique titanium oxide photocatalysts by an advanced metal ion-implantation method and photocatalytic reactions under visible light irradiation. Research on Chemical Intermediates, 1998, 24, 143-149.	2.7	230
8	Characterization of Titanium-Silicon Binary Oxide Catalysts Prepared by the Sol-Gel Method and Their Photocatalytic Reactivity for the Liquid-Phase Oxidation of 1-Octanol. Journal of Physical Chemistry B, 1998, 102, 5870-5875.	2.6	184
9	Characterization of metal ion-implanted titanium oxide photocatalysts operating under visible light irradiation. Journal of Synchrotron Radiation, 1999, 6, 451-452.	2.4	175
10	Photocatalytic Degradation of 1-Octanol on Anchored Titanium Oxide and on TiO ₂ Powder Catalysts. Journal of Catalysis, 1996, 158, 97-101.	6.2	161
11	Photocatalytic decomposition of NO at 275 K on titanium oxide catalysts anchored within zeolite cavities and framework. Applied Surface Science, 1997, 121-122, 305-309.	6.1	148
12	Performance of Au/TiO ₂ catalyst under ambient conditions. Catalysis Today, 2002, 72, 89-94.	4.4	140
13	Application of ion beam techniques for preparation of metal ion-implanted TiO ₂ thin film photocatalyst available under visible light irradiation: metal ion-implantation and ionized cluster beam method. Journal of Synchrotron Radiation, 2001, 8, 569-571.	2.4	126
14	The design and development of second-generation titanium oxide photocatalysts able to operate under visible light irradiation by applying a metal ion-implantation method. Research on Chemical Intermediates, 2001, 27, 459-467.	2.7	104
15	Active phases and sulfur tolerance of bimetallic Pd-Pt catalysts used for hydrotreatment. Applied Catalysis A: General, 2007, 322, 152-171.	4.3	100
16	Promoted partial oxidation activity of supported Ag catalysts in the gas-phase catalytic oxidation of benzyl alcohol. Journal of Catalysis, 2005, 234, 308-317.	6.2	87
17	Preparation of efficient titanium oxide photocatalysts by an ionized cluster beam (ICB) method and their photocatalytic reactivities for the purification of water. Catalysis Today, 2000, 63, 63-69.	4.4	85
18	Preparation of Sn-modified silica-coated Pt catalysts: A new PtSn bimetallic model catalyst for selective hydrogenation of crotonaldehyde. Journal of Catalysis, 2012, 288, 84-91.	6.2	77

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19	Low-Temperature Methanol Synthesis Catalyzed over Ultrafine Palladium Particles Supported on Cerium Oxide. <i>Journal of Catalysis</i> , 2001, 197, 267-272.	6.2	73
20	Liquid-Phase Oxidation of Benzene to Phenol over V-Substituted Heteropolyacid Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 1-7.	3.7	69
21	Title is missing!. <i>Catalysis Letters</i> , 2000, 64, 23-25.	2.6	60
22	Photocatalytic decomposition of NH ₃ over TiO ₂ catalysts doped with Fe. <i>Applied Catalysis B: Environmental</i> , 2014, 160-161, 200-203.	20.2	60
23	Characterization of the Local Structure of the Vanadium Silicalite (VS-2) Catalyst and Its Photocatalytic Reactivity for the Decomposition of NO into N ₂ and O ₂ . <i>Journal of Physical Chemistry B</i> , 1999, 103, 9295-9301.	2.6	55
24	Hexacarbonyldiplatinum(I). Synthesis, Spectroscopy, and Density Functional Calculation of the First Homoleptic, Dinuclear Platinum(I) Carbonyl Cation, [Pt(CO) ₃] ₂ ²⁺ , Formed in Concentrated Sulfuric Acid. <i>Journal of the American Chemical Society</i> , 2000, 122, 6862-6870.	13.7	52
25	Catalytic methanol decomposition over palladium deposited on thermally stable mesoporous titanium oxide. <i>Journal of Molecular Catalysis A</i> , 2003, 198, 303-308.	4.8	42
26	Effect of noble metal particle size on the sulfur tolerance of monometallic Pd and Pt catalysts supported on high-silica USY zeolite. <i>Applied Catalysis A: General</i> , 2005, 286, 249-257.	4.3	42
27	Photocatalytic synthesis of CH ₄ and CH ₃ OH from CO ₂ and H ₂ O on highly dispersed active titanium oxide catalysts. <i>Energy Conversion and Management</i> , 1995, 36, 617-620.	9.2	41
28	Effect of reduction temperature on structural properties and CO/CO ₂ hydrogenation characteristics of a Pd-CeO ₂ catalyst. <i>Applied Catalysis A: General</i> , 2001, 217, 231-239.	4.3	40
29	Influence of palladium precursors on methanol synthesis from CO hydrogenation over Pd/CeO ₂ catalysts prepared by deposition-precipitation method. <i>Applied Catalysis A: General</i> , 2001, 217, 165-172.	4.3	39
30	Mechanistic study of reaction mechanism on ammonia photodecomposition over Ni/TiO ₂ photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2017, 206, 378-383.	20.2	38
31	Promoting Effect and Role of Alkaline Earth Metal Added to Supported Ag Catalysts in the Gas-Phase Catalytic Oxidation of Benzyl Alcohol. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 8837-8845.	3.7	36
32	Zinc Powder as an Effective Reducing Reagent during Liquid-Phase Oxidation of Benzene to Phenol Using Molecular Oxygen over V-Substituted Heteropoly Acid Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 7444-7450.	3.7	36
33	Gas-Phase Catalytic Oxidation of Benzene to Phenol over Cu-Impregnated HZSM-5 Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 8765-8772.	3.7	33
34	A Comparative Study of Palladium and Copper Catalysts in Methanol Synthesis. <i>Catalysis Letters</i> , 2002, 79, 125-127.	2.6	32
35	Low temperature methanol synthesis from carbon monoxide and hydrogen over ceria supported copper catalyst. <i>Applied Catalysis A: General</i> , 2005, 282, 221-226.	4.3	30
36	Design and development of unique titanium oxide photocatalysts capable of operating under visible light irradiation by an advanced metal ion-implantation method. <i>Studies in Surface Science and Catalysis</i> , 1999, , 305-310.	1.5	29

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37	Title is missing!. Catalysis Letters, 2001, 76, 139-142.	2.6	29
38	Promotion Effect of Alkali Metal Added to Impregnated Cobalt Catalysts in the Gas-Phase Catalytic Oxidation of Benzyl Alcohol. Industrial & Engineering Chemistry Research, 2004, 43, 6021-6026.	3.7	29
39	Photocatalytic reduction of CO ₂ with H ₂ O on titanium oxides anchored within zeolites. Studies in Surface Science and Catalysis, 1998, , 177-182.	1.5	27
40	Title is missing!. Catalysis Letters, 2002, 83, 33-35.	2.6	27
41	Catalytic Methanol Decomposition Over Palladium Deposited on Mesoporous Cerium Oxide. Catalysis Letters, 2003, 88, 83-87.	2.6	27
42	Photoluminescence Property of Titanium Silicalite-2 Catalyst and Its Photocatalytic Reactivity for the Direct Decomposition of NO at 295 K. Chemistry Letters, 1996, 25, 895-896.	1.3	24
43	Promoted partial oxidation activity of alkali metal added-Co catalysts supported on NaY and NaUSY zeolites in the gas-phase catalytic oxidation of benzyl alcohol. Journal of Molecular Catalysis A, 2006, 259, 108-115.	4.8	24
44	Selective catalytic oxidation of benzene over Cu/Ti/HZSM-5 under low oxygen pressure for one step synthesis of phenol. Journal of Molecular Catalysis A, 2016, 411, 372-376.	4.8	24
45	Growth of Pd particles in methanol synthesis over Pd/CeO ₂ . Catalysis Letters, 2001, 73, 161-165.	2.6	23
46	The in-situ characterization of titanium oxides prepared in the zeolite cavities and framework and their photocatalytic reactivities for the direct decomposition of NO into N ₂ at 275K. Studies in Surface Science and Catalysis, 1997, 105, 1609-1616.	1.5	22
47	Photoluminescence properties of tetrahedral titanium oxide species in zeolitic materials. Catalysis Letters, 1998, 53, 107-109.	2.6	22
48	Chemical promotional effect of gold added to palladium supported on cerium oxide in catalytic methanol decomposition. Journal of Molecular Catalysis A, 2004, 213, 251-255.	4.8	22
49	One-Step Oxidation of Benzene to Phenol over Cu/Ti/HZSM-5 Catalysts. Catalysis Letters, 2010, 134, 324-329.	2.6	21
50	Structural change of palladium particles supported on cerium oxide in catalytic methanol synthesis. Catalysis Letters, 2000, 68, 181-183.	2.6	18
51	Liquid-Phase Oxidation of Benzene to Phenol by Molecular Oxygen over La Catalysts Supported on HZSM-5. Topics in Catalysis, 2008, 47, 98-100.	2.8	17
52	Preparation of SiO ₂ -encapsulated SnPt nanoparticle catalysts for selective hydrogenation of unsaturated aldehyde. Catalysis Communications, 2011, 14, 6-9.	3.3	16
53	Cyclohexane photooxidation under visible light irradiation by WO ₃ –TiO ₂ mixed catalysts. Research on Chemical Intermediates, 2018, 44, 629-638.	2.7	16
54	Synthesis of bimetallic SnPt-nanoparticle catalysts for chemoselective hydrogenation of crotonaldehyde: Relationship between Sn x Pt y alloy phase and catalytic performance. Catalysis Today, 2018, 303, 241-248.	4.4	15

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55	Characterization of Ti/Si binary oxides prepared by the sol-gel method and their photocatalytic properties: The hydrogenation and hydrogenolysis of CH ₃ CCH with H ₂ O. Korean Journal of Chemical Engineering, 1998, 15, 491-495.	2.7	14
56	Direct oxidation of benzene with molecular oxygen in liquid phase catalysed by heterogeneous copper complexes encapsulated in Y-type zeolite. Catalysis Communications, 2017, 100, 29-32.	3.3	13
57	Liquid-phase oxidative coupling of 2-naphthol by vanadium catalysts supported on MCM-41. Journal of Molecular Catalysis A, 2005, 231, 235-240.	4.8	12
58	Application of picene thin-film semiconductor as a photocatalyst for photocatalytic hydrogen formation from water. Applied Catalysis B: Environmental, 2016, 192, 88-92.	20.2	12
59	Photocatalytic reduction of CO ₂ with H ₂ O on Ti/Si binary oxide catalysts prepared by the sol-gel method. Studies in Surface Science and Catalysis, 1998, 114, 561-564.	1.5	11
60	Meerwein-Ponndorf-Verley Reduction of Crotonaldehyde over Supported Zirconium Oxide Catalysts Using Batch and Tubular Flow Reactors. Industrial & Engineering Chemistry Research, 2018, 57, 70-78.	3.7	11
61	Simple Preparation Method of Isolated Iron (III) Species on Silica Surface. Chemistry Letters, 2003, 32, 208-209.	1.3	10
62	Size-Dependent Photocatalytic Activity of Cubic Boron Phosphide Nanocrystals in the Quantum Confinement Regime. Journal of Physical Chemistry C, 2019, 123, 23226-23235.	3.1	10
63	Partial Photooxidation of Ethylene with Water as Oxidant over Copper Oxide Supported on Silica. Journal of Catalysis, 2001, 202, 427-429.	6.2	9
64	Liquid-phase Oxidation of Benzene with Molecular Oxygen over Vanadium Complex Catalysts Encapsulated in Y-Zeolite. Chemistry Letters, 2014, 43, 1734-1736.	1.3	9
65	Oxidation of cyclohexane with hydrogen peroxide over β -zeolites with various Si/Al ratios. Catalysis Today, 2013, 203, 60-65.	4.4	8
66	Preparation of efficient titanium oxide photocatalysts by an ionized cluster beam method and their application for the degradation of propanol diluted in water. Studies in Surface Science and Catalysis, 2000, , 1931-1936.	1.5	7
67	Hydrogen production for photocatalytic decomposition of water with urea as a reducing agent. Catalysis Today, 2018, 307, 231-236.	4.4	7
68	Flow and sedimentation characteristics of silica hard-shell microcapsule slurries treated with additives. International Journal of Refrigeration, 2019, 106, 18-23.	3.4	7
69	Role of Al ³⁺ species in beta zeolites for Baeyer-Villiger oxidation of cyclic ketones by using H ₂ O ₂ as an environmentally friendly oxidant. Catalysis Today, 2018, 307, 293-300.	4.4	6
70	Surface properties of palladium supported on cerium oxide and its catalytic activity for methanol decomposition. Studies in Surface Science and Catalysis, 2000, 130, 2315-2320.	1.5	5
71	Photocatalytic Reaction and Surface Photoreaction on Ultra-Fine Semiconductor Particles. Design of Anchored Molecular Size Photocatalysts for Environmental Applications.. Hyomen Kagaku, 1995, 16, 194-200.	0.0	5
72	Low-temperature Methanol Synthesis Catalyzed over Pd/CeO ₂ . Chemistry Letters, 1999, 28, 1101-1102.	1.3	4

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73	Formation of ethylene oxide by photooxidation of ethylene over silica modified with copper. Studies in Surface Science and Catalysis, 2000, 130, 1955-1960.	1.5	4
74	Surface Reducibility of Cerium Oxide Modified with Palladium. Chemistry Letters, 2000, 29, 880-881.	1.3	4
75	Photodecomposition of water with methane over titanium oxide photocatalysts modified with metal. Research on Chemical Intermediates, 2010, 36, 463-472.	2.7	4
76	Relationship Between the Local Structures of Titanium Oxide Photocatalysts and their Reactivities “XAFS, UV, Photoluminescence and Photoreaction Investigations. European Physical Journal Special Topics, 1997, 7, C2-883-C2-885.	0.2	4
77	The Photocatalytic Reduction of CO ₂ with H ₂ O on Titanium Oxide Catalysts.. Sekiyu Gakkaishi (Journal) Tj ETQq1 1.0,784314 rgBT /Overl	0.1	3
78	Effect of H ₂ O on the partial photo-oxidation of ethylene over Cu/SiO ₂ photocatalyst. Research on Chemical Intermediates, 2003, 29, 891-896.	2.7	3
79	Direct photo-oxidation of benzene to phenol over Ti/Si binary oxide prepared by sol-gel method. Research on Chemical Intermediates, 2008, 34, 525-533.	2.7	3
80	Influence of Preparation Methods of Supported Zr Oxide Catalysts for Meerwein-Ponndorf-Verlay Reduction of Acetophenone. Materials Science Forum, 2010, 658, 420-423.	0.3	3
81	XAFS study of the complex of an acetylacetonate-based ligand and copper ion. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2011, 71, 293-296.	1.6	3
82	Preparation of Silica-Coated SnPt Bimetallic Nanoparticle Catalysts for the Selective Hydrogenation of Cinnamaldehyde. Journal of Chemical Engineering of Japan, 2014, 47, 130-135.	0.6	3
83	Study of Benzene Hydroxylation in Liquid Phase Using Mono- and Binuclear Copper Complex Catalysts. Chemistry Letters, 2015, 44, 384-386.	1.3	3
84	Hydrogen Transfer Activity of Tin-Incorporated Mesoporous Silica. Journal of Chemical Engineering of Japan, 2005, 38, 801-806.	0.6	2
85	Application of Metal Ion Implantation for the Design of Visible Light-Responsive Titanium Oxide Photocatalysts. Nanostructure Science and Technology, 2016, , 173-186.	0.1	2
86	Effect of Sn_{1-x}Pt_y Alloy Structures in SnPt Bimetallic Nanoparticle Catalysts on Catalytic Activity for Hydrogenation of Acetic Acid. Journal of Chemical Engineering of Japan, 2020, 53, 383-388.	0.6	2
87	Decomposition of water over picene derivatives photocatalyst under visible light irradiation. Catalysis Today, 2022, , .	4.4	2
88	Study of Cyclohexane Photooxidation over Pt-WO₃ Catalysts Mixed with TiO₂ under Visible Light Irradiation. Materials Science Forum, 2010, 658, 149-152.	0.3	1
89	Kinetic Analysis of Syngas Formation from Carbon Dioxide (Dry Reforming of Methane with Carbon) Tj ETQq1 1.0,784314 rgBT /Overl	0.3	1
90	Preparation of a Photoresponsive Tracer to Evaluate the Performance of Dry-Type Powder Photoreactors. Journal of Chemical Engineering of Japan, 2017, 50, 710-715.	0.6	1

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91	Kinetics of Dry Photochlorination of Poly(Vinyl Chloride) using Rotary Vessel Reactor and Fluidized Bed Reactor. Kagaku Kogaku Ronbunshu, 2017, 43, 379-385.	0.3	1
92	Photooxidation of ethylene over Cu-modified and unmodified silica. International Journal of Photoenergy, 2003, 5, 27-29.	2.5	0
93	Evaluation of Active Sites over the UHV Treated Pd Foil Surface. Hyomen Kagaku, 2012, 33, 394-398.	0.0	0
94	Cutting-Edge Research at the Membrane Center in Kobe University in Japan. Biotechnology and Biotechnological Equipment, 2013, 27, 3478-3484.	1.3	0
95	Development of Photocatalysts for Hydrogen Production from Methane and Water. Journal of Smart Processing, 2013, 2, 282-286.	0.1	0
96	Hydrogen Production by Methane Dry Reforming on Supported Nickel Catalysts “Enhanced Stability of the Reforming Process. Applied Mechanics and Materials, 0, 625, 320-323.	0.2	0
97	Photocatalytic Decomposition of NH ₃ Over Fe-Doped TiO ₂ Prepared by Solid-State Impregnation. Nanostructure Science and Technology, 2016, , 201-209.	0.1	0
98	Photoelectrochemical Reaction in an Electric Cell with a Porous Carbon Anode. Journal of Physical Chemistry C, 2019, 123, 19447-19452.	3.1	0
99	Effects of Sn_xPt_y Alloy Structures on the Performance of SnPt Catalysts for the Selective Hydrogenation of Unsaturated Aldehydes to Unsaturated Alcohols. Journal of the Japan Petroleum Institute, 2020, 63, 52-61.	0.6	0
100	Evaluation of Dry Powder Photoreactor Performance by Use of a Photoresponsive Tracer. Kagaku Kogaku Ronbunshu, 2018, 44, 316-323.	0.3	0
101	Reaction rate enhancement of three-phase hydrogenation using the Taylor flow reactor. Journal of Advanced Manufacturing and Processing, 0, , .	2.4	0