

# Hiroaki Sakurai

## List of Publications by Year in descending order

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44  
papers

3,519  
citations

331670

21  
h-index

254184

43  
g-index

44  
all docs

44  
docs citations

44  
times ranked

4408  
citing authors

#	ARTICLE	IF	CITATIONS
1	Au@ZIF-8: CO Oxidation over Gold Nanoparticles Deposited to Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2009, 131, 11302-11303.	13.7	772
2	Preparation, Adsorption Properties, and Catalytic Activity of 3D Porous Metal-Organic Frameworks Composed of Cubic Building Blocks and Alkali-Metal Ions. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 2542-2546.	13.8	506
3	Probing the Lewis Acid Sites and CO Catalytic Oxidation Activity of the Porous Metal-Organic Polymer [Cu(5-methylisophthalate)]. <i>Journal of the American Chemical Society</i> , 2007, 129, 8402-8403.	13.7	327
4	Low-temperature water-gas shift reaction over gold deposited on TiO <sub>2</sub> . <i>Chemical Communications</i> , 1997, , 271-272.	4.1	179
5	Low-temperature activity of Au/CeO <sub>2</sub> for water gas shift reaction, and characterization by ADF-STEM, temperature-programmed reaction, and pulse reaction. <i>Applied Catalysis A: General</i> , 2005, 291, 179-187.	4.3	177
6	Carbon dioxide and carbon monoxide hydrogenation over gold supported on titanium, iron, and zinc oxides. <i>Applied Catalysis A: General</i> , 1995, 127, 93-105.	4.3	172
7	Synergism in methanol synthesis from carbon dioxide over gold catalysts supported on metal oxides. <i>Catalysis Today</i> , 1996, 29, 361-365.	4.4	148
8	Hydrogenation of CO <sub>2</sub> over gold supported on metal oxides. <i>Applied Catalysis A: General</i> , 1993, 102, 125-136.	4.3	146
9	Surface Characterization of La <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> and V <sub>2</sub> O <sub>5</sub> /La <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> Catalysts. <i>Journal of Physical Chemistry B</i> , 2002, 106, 5695-5700.	2.6	119
10	Vapor-phase beckmann rearrangement over alumina-supported boria catalyst prepared by vapor decomposition method. <i>Applied Catalysis</i> , 1987, 29, 107-115.	0.8	114
11	Oxidative removal of CO contained in hydrogen by using metal oxide catalysts. <i>International Journal of Hydrogen Energy</i> , 1999, 24, 355-358.	7.1	114
12	Catalytic methanol decomposition at low temperatures over palladium supported on metal oxides. <i>Applied Catalysis A: General</i> , 1998, 171, 123-130.	4.3	110
13	CO <sub>2</sub> hydrogenation for C <sub>2</sub> + hydrocarbon synthesis over composite catalyst using surface modified HB zeolite. <i>Applied Catalysis B: Environmental</i> , 2015, 179, 37-43.	20.2	66
14	The roles of redox and acid-base properties of silica-supported vanadia catalysts in the selective oxidation of ethane. <i>Catalysis Today</i> , 2004, 93-95, 163-171.	4.4	60
15	Experimental Verification of Theoretically Calculated Transition Barriers of the Reactions in a Gaseous Selective Oxidation of CH <sub>4</sub> -O <sub>2</sub> -NO <sub>2</sub> . <i>Journal of Physical Chemistry A</i> , 2000, 104, 2648-2654.	2.5	48
16	Unusual Regenerable Porous Metal-Organic Framework Based on a New Triple Helical Molecular Necklace for Separating Organosulfur Compounds. <i>Chemistry - A European Journal</i> , 2012, 18, 16302-16309.	3.3	48
17	Methanol formation from methane partial oxidation in CH <sub>4</sub> -O <sub>2</sub> -NO gaseous phase at atmospheric pressure. <i>Applied Catalysis A: General</i> , 2000, 190, 283-289.	4.3	41
18	Synthesis of C <sub>2</sub> + hydrocarbons by CO <sub>2</sub> hydrogenation over the composite catalyst of Cu-Zn-Al oxide and HB zeolite using two-stage reactor system under low pressure. <i>Catalysis Today</i> , 2015, 242, 255-260.	4.4	30

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19	Pillared synthetic saponite as an efficient alkylation catalyst. Journal of the Chemical Society Chemical Communications, 1986, , 1074.	2.0	27
20	Hydrogen evolution from glycerol aqueous solution under aerobic conditions over Pt/TiO <sub>2</sub> and Au/TiO <sub>2</sub> granular photocatalysts. Chemical Communications, 2016, 52, 13612-13615.	4.1	25
21	CATALYTIC BEHAVIOR OF BORIA-ALUMINA PREPARED BY CHEMICAL VAPOR DEPOSITION TECHNIQUE. Chemistry Letters, 1985, 14, 1783-1784.	1.3	24
22	Pt/TiO <sub>2</sub> granular photocatalysts for hydrogen production from aqueous glycerol solution: Durability against seawater constituents and dissolved oxygen. Catalysis Communications, 2018, 114, 124-128.	3.3	22
23	A kinetic study of methanol oxidation over SiO <sub>2</sub> . Applied Catalysis A: General, 2000, 198, 43-50.	4.3	19
24	Gold nanoparticles deposited on Amberlyst-15: Metal- <sup>+</sup> acid bifunctional catalyst for cellobiose conversion to gluconic acid. Catalysis Today, 2015, 251, 96-102.	4.4	19
25	VAPOR-PHASE BECKMANN REARRANGEMENT OF CYCLOHEXANONE OXIME OVER SILICA-BORIA CATALYST PREPARED BY CHEMICAL VAPOR DEPOSITION METHOD. Chemistry Letters, 1985, 14, 277-278.	1.3	18
26	Storage of molecular hydrogen into ZSM-5 zeolite in the ambient atmosphere by the sealing of the micropore outlet. Chemical Engineering and Processing: Process Intensification, 2014, 79, 1-6.	3.6	18
27	Mechanistic Studies of CO Oxidation on Highly Dispersed Gold Catalysts for Use in Room-Temperature Air Purification. Studies in Surface Science and Catalysis, 1993, 75, 2657-2660.	1.5	16
28	Cation-exchanged synthetic saponite as a <sup>+</sup> heat-stable <sup>TM</sup> acidic clay catalyst. Journal of the Chemical Society Chemical Communications, 1988, , 1520-1521.	2.0	15
29	Colorless alkaline solution of chloride-free gold acetate for impregnation: An innovative method for preparing highly active Au nanoparticles catalyst. Applied Catalysis A: General, 2013, 462-463, 236-246.	4.3	15
30	Photocatalytic hydrogen generation of monolithic porous titanium oxide-based glass <sup>+</sup> ceramics. Scientific Reports, 2020, 10, 11615.	3.3	15
31	Pillared Tetrasilic Mica Catalysts Modified by Fixed Interlayer Cations. Classification of Fixation Mode by Cations. Bulletin of the Chemical Society of Japan, 1990, 63, 1389-1395.	3.2	14
32	Pillared randomly interstratified clay as a highly heat-stable catalytic solid. Advanced Materials, 1991, 3, 558-561.	21.0	13
33	Oxidation of ethane into acetaldehyde and acrolein over silica containing cesium and a very small amount of additives. Applied Catalysis A: General, 2000, 196, 37-42.	4.3	13
34	Acidity Enhanced Pillared Clay Catalysts. Modification of Exchangeable Sites on Fluor-tetrasilic Mica by the Fixed Interlayer Cations. Bulletin of the Chemical Society of Japan, 1989, 62, 3221-3228.	3.2	12
35	New acidic pillared clay catalysts prepared from fluor-tetrasilic mica. Journal of the Chemical Society Chemical Communications, 1988, , 1519.	2.0	9
36	Synergetic effect of nickel and platinum supported on silica in catalytic methanol decomposition. Chemical Communications, 1997, , 657-658.	4.1	9

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37	Preparation of Pd/CeO <sub>2</sub> Catalyst for Methanol Decomposition. <i>Studies in Surface Science and Catalysis</i> , 1998, , 83-90.	1.5	9
38	Pillared Tetrasilic Mica Catalysts Having Fixed Interlayer Ca Ions. Comparison with Other Clays. <i>Bulletin of the Chemical Society of Japan</i> , 1991, 64, 227-235.	3.2	8
39	High Yield Methanol Formation in a CH <sub>4</sub> -O <sub>2</sub> -NO <sub>2</sub> Gaseous Selective Oxidation at 1 atm. <i>Chemistry Letters</i> , 1999, 28, 991-992.	1.3	7
40	Macroaggregation effect of TiO <sub>2</sub> nanoparticles on the photocatalytic activity and post-reaction separation for aqueous degradation of organic compounds. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104936.	6.7	5
41	An approach to the storage of molecular oxygen into mordenite micropore by modification with 1,4-bis(hydroxydimethylsilyl)benzene. <i>Microporous and Mesoporous Materials</i> , 2012, 155, 34-39.	4.4	4
42	Preparation, Adsorption Properties, and Catalytic Activity of 3D Porous Metal-Organic Frameworks Composed of Cubic Building Blocks and Alkali-Metal Ions. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 8086-8086.	13.8	3
43	A comparative study of the photocatalytic and optical properties of spinel-type titanates: A report for spinel sodium titanate. <i>Journal of Solid State Chemistry</i> , 2021, 304, 122593.	2.9	3
44	Microporous Pillared Mica with Cation-incorporated Silicate Surfaces. , 1992, , 282-295.		0