

# Kyoko Bando

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75 papers	2,091 citations	26 h-index	43 g-index
78 ext. papers	2,236 ext. citations	3.8 avg, IF	4.19 L-index

#	Paper	IF	Citations
75	Transient Technique for Identification of True Reaction Intermediates: Hydroperoxide Species in Propylene Epoxidation on Gold/Titanosilicate Catalysts by X-ray Absorption Fine Structure Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 1115-1123	3.8	141
74	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> , <b>2006</b> , 110, 22995-9	3.4	122
73	Direct propylene epoxidation over barium-promoted Au/Ti-TUD catalysts with H <sub>2</sub> and O <sub>2</sub> : Effect of Au particle size. <i>Journal of Catalysis</i> , <b>2007</b> , 250, 350-359	7.3	114
72	In-situ FT-IR study on CO <sub>2</sub> hydrogenation over Cu catalysts supported on SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , and TiO <sub>2</sub> . <i>Applied Catalysis A: General</i> , <b>1997</b> , 165, 391-409	5.1	112
71	Hydrogen production from woody biomass over supported metal catalysts in supercritical water. <i>Catalysis Today</i> , <b>2009</b> , 146, 192-195	5.3	84
70	Active phases and sulfur tolerance of bimetallic PdPt catalysts used for hydrotreatment. <i>Applied Catalysis A: General</i> , <b>2007</b> , 322, 152-171	5.1	81
69	EXAFS measurements of a working catalyst in the liquid phase: An in situ study of a Ni <sub>2</sub> P hydrodesulfurization catalyst. <i>Journal of Catalysis</i> , <b>2006</b> , 241, 20-24	7.3	72
68	In situ FTIR and XANES studies of thiophene hydrodesulfurization on Ni <sub>2</sub> P/MCM-41. <i>Journal of Catalysis</i> , <b>2009</b> , 268, 209-222	7.3	65
67	Enhancement of cyclic ether formation from polyalcohol compounds in high temperature liquid water by high pressure carbon dioxide. <i>Green Chemistry</i> , <b>2009</b> , 11, 48-52	10	59
66	Oxidation of propane to propylene oxide on gold catalysts. <i>Journal of Catalysis</i> , <b>2008</b> , 255, 114-126	7.3	56
65	In situ time-resolved XAFS study on the structural transformation and phase separation of Pt <sub>3</sub> Sn and PtSn alloy nanoparticles on carbon in the oxidation process. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 15833-44	3.6	54
64	Effect of gold oxidation state on the epoxidation and hydrogenation of propylene on Au/TS-1. <i>Journal of Catalysis</i> , <b>2011</b> , 280, 40-49	7.3	53
63	Sm-CeO <sub>2</sub> supported gold nanoparticle catalyst for benzyl alcohol oxidation using molecular O <sub>2</sub> . <i>Applied Catalysis A: General</i> , <b>2013</b> , 452, 94-104	5.1	52
62	Aerobic oxidation of benzyl alcohol over mesoporous Mn-doped ceria supported Au nanoparticle catalyst. <i>Journal of Molecular Catalysis A</i> , <b>2013</b> , 378, 47-56		52
61	CO <sub>2</sub> hydrogenation reactivity and structure of Rh/SiO <sub>2</sub> catalysts prepared from acetate, chloride and nitrate precursors. <i>Applied Catalysis A: General</i> , <b>2001</b> , 205, 285-294	5.1	50
60	Core/Shell Phase Separation and Structural Transformation of Pt <sub>3</sub> Sn Alloy Nanoparticles Supported on $\gamma$ -Al <sub>2</sub> O <sub>3</sub> in the Reduction and Oxidation Processes Characterized by In Situ Time-Resolved XAFS. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 5823-5833	3.8	47
59	Production of Phenol and Cresol from Guaiacol on Nickel Phosphide Catalysts Supported on Acidic Supports. <i>Topics in Catalysis</i> , <b>2015</b> , 58, 201-210	2.3	45

58	Structure and behaviour of Ru <sub>3</sub> (CO) <sub>12</sub> supported on inorganic oxide surfaces, studied by EXAFS, infrared spectroscopy and temperature-programmed decomposition. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1990</b> , 86, 2645		44
57	Combined in situ QXAFS and FTIR analysis of a Ni phosphide catalyst under hydrodesulfurization conditions. <i>Journal of Catalysis</i> , <b>2012</b> , 286, 165-171	7.3	40
56	Effect of metal loading on CO <sub>2</sub> hydrogenation reactivity over Rh/SiO <sub>2</sub> catalysts. <i>Applied Catalysis A: General</i> , <b>2000</b> , 197, 255-268	5.1	38
55	Mechanistic study of propane selective oxidation with H <sub>2</sub> and O <sub>2</sub> on Au/TS-1. <i>Journal of Catalysis</i> , <b>2008</b> , 257, 32-42	7.3	37
54	Gold clusters supported on La(OH) <sub>3</sub> for CO oxidation at 193K. <i>Chemical Physics Letters</i> , <b>2010</b> , 493, 207-211	11.5	36
53	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> , <b>2005</b> , 286, 249-257	5.1	35
52	Activity of silylated titanosilicate supported gold nanoparticles towards direct propylene epoxidation reaction in the presence of trimethylamine. <i>Journal of Molecular Catalysis A</i> , <b>2012</b> , 359, 21-27		34
51	Surface Structures and Catalytic Hydroformylation Activities of Rh Dimers Attached on Various Inorganic Oxide Supports. <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 13636-13645		34
50	In situ fluorescence XAFS study for hydrodesulfurization catalysts. <i>Physical Chemistry Chemical Physics</i> , <b>2003</b> , 5, 4510	3.6	32
49	Quick X-ray Absorption Fine Structure Studies on the Activation Process of Ni <sub>2</sub> P Supported on K-USY. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 7466-7471	3.8	26
48	Propane reacts with O <sub>2</sub> and H <sub>2</sub> on gold supported TS-1 to form oxygenates with high selectivity. <i>Chemical Communications</i> , <b>2008</b> , 3272-4	5.8	25
47	Surface treatment- and calcination temperature-dependent adsorption of methyl orange molecules in wastewater on self-standing alumina nanofiber films. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 14984		23
46	Selective Hydrogenation of Crotonaldehyde over Ir/FeOx/SiO <sub>2</sub> Catalysts: Enhancement of Reactivity and Stability by Ir/FeOx Interaction. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 8663-8673	3.8	23
45	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> , <b>2006</b> , 110, 47-51	2.8	22
44	Formation and oxidation mechanisms of Pd-Zn nanoparticles on a ZnO supported Pd catalyst studied by in situ time-resolved QXAFS and DXAFS. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 2152-8 <sup>3.6</sup>		21
43	Palladium complex catalysts immobilized on silica via a tripodal linker unit with amino groups: Preparation, characterization, and application to the Suzuki-Miyaura coupling. <i>Journal of Molecular Catalysis A</i> , <b>2011</b> , 342-343, 58-66		21
42	EXAFS study on the sulfidation behavior of Pd, Pt and PdPt catalysts supported on amorphous silica and high-silica USY zeolite. <i>Applied Catalysis A: General</i> , <b>2005</b> , 290, 73-80	5.1	19
41	In situ XAFS analysis of PdPt catalysts during hydrotreatment of model oil. <i>Catalysis Today</i> , <b>2006</b> , 111, 199-204	5.3	18

40	Gaseous fuel production from nonrecyclable paper wastes by using supported metal catalysts in high-temperature liquid water. <i>ChemSusChem</i> , <b>2010</b> , 3, 737-41	8.3	17
39	Design of a high-temperature and high-pressure liquid flow cell for x-ray absorption fine structure measurements under catalytic reaction conditions. <i>Review of Scientific Instruments</i> , <b>2008</b> , 79, 014101	1.7	17
38	Characterization of Rh Particles and Li-Promoted Rh Particles in Y Zeolite during CO <sub>2</sub> Hydrogenation: A New Mechanism for Catalysis Controlled by the Dynamic Structure of Rh Particles and the Li Additive Effect. <i>Journal of Catalysis</i> , <b>2000</b> , 194, 91-104	7.3	17
37	Ruthenium sulfide clusters in acidic zeolites: In situ XAS characterization during sulfidation and reaction. <i>Applied Catalysis A: General</i> , <b>2007</b> , 322, 98-105	5.1	14
36	Gold nanoparticles on mesoporous Cerium-Tin mixed oxide for aerobic oxidation of benzyl alcohol. <i>Journal of Molecular Catalysis A</i> , <b>2016</b> , 418-419, 41-53		13
35	Operando QEXAFS studies of Ni <sub>2</sub> P during thiophene hydrodesulfurization: direct observation of Ni-S bond formation under reaction conditions. <i>Journal of Synchrotron Radiation</i> , <b>2012</b> , 19, 205-9	2.4	13
34	Depolymerization of Poly(ethylene terephthalate) to Terephthalic Acid and Ethylene Glycol in High-temperature Liquid Water. <i>Chemistry Letters</i> , <b>2009</b> , 38, 268-269	1.7	13
33	In Situ X-ray Absorption Fine Structure Studies on the Structure of Nickel Phosphide Catalyst Supported on K-USY. <i>Chemistry Letters</i> , <b>2003</b> , 32, 956-957	1.7	13
32	In situ XAFS analysis system for high-pressure catalytic reactions and its application to CO <sub>2</sub> hydrogenation over a Rh/Y-zeolite catalyst. <i>Journal of Synchrotron Radiation</i> , <b>2001</b> , 8, 581-3	2.4	13
31	Attachment of an Organic Dye on a TiO <sub>2</sub> Substrate in Supercritical CO <sub>2</sub> : Application to a Solar Cell. <i>Chemistry Letters</i> , <b>1999</b> , 28, 853-854	1.7	13
30	Stereoselective hydrogenation of 4-alkylphenols over carbon-supported rhodium catalyst in supercritical carbon dioxide solvent. <i>Catalysis Communications</i> , <b>2009</b> , 10, 1702-1705	3.2	12
29	XAFS, XPS characterization of cerium promoted Ti-TUD-1 catalyst and its activity for styrene oxidation reaction. <i>Catalysis Communications</i> , <b>2014</b> , 46, 123-127	3.2	11
28	Operando Observation of Ni <sub>2</sub> P Structural Changes during Catalytic Reaction: Effect of H <sub>2</sub> S Pretreatment. <i>Chemistry Letters</i> , <b>2012</b> , 41, 1238-1240	1.7	10
27	Thermodynamic Equilibria between Polyalcohols and Cyclic Ethers in High-Temperature Liquid Water. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2009</b> , 54, 2666-2668	2.8	10
26	Platinum-Like Catalytic Behavior of Au <sup>+</sup> . <i>ChemCatChem</i> , <b>2010</b> , 2, 1582-1586	5.2	10
25	CO <sub>2</sub> hydrogenation over micro- and mesoporous oxides supported Ru catalysts. <i>Catalysis Letters</i> , <b>1999</b> , 60, 125-132	2.8	10
24	Fabrication of boehmite and Al <sub>2</sub> O <sub>3</sub> nonwovens from boehmite nanofibres and their potential as the sorbent. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 21225		9
23	Combined in situ analysis of Ni <sub>2</sub> P/MCM-41 under hydrodesulfurization conditions: Simultaneous observation of QEXAFS and FTIR. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 190, 012158	0.3	9

22	Promotional Effect of Iron for the Nitridation of Niobium Oxide to Niobium Nitride. <i>Topics in Catalysis</i> , <b>2009</b> , 52, 1517-1524	2.3	7
21	Preparation of supported NbC catalysts from peroxoniobic acid and in situ XAFS characterization. <i>Applied Catalysis A: General</i> , <b>2008</b> , 343, 25-28	5.1	7
20	In-situ XAFS Analysis of Y Zeolite-Supported Rh Catalysts during High-Pressure Hydrogenation of CO <sub>2</sub> . <i>Topics in Catalysis</i> , <b>2002</b> , 18, 59-65	2.3	7
19	Investigation of the thiotolerance of metallic ruthenium nanoparticles: A XAS study. <i>Catalysis Today</i> , <b>2009</b> , 147, 255-259	5.3	6
18	Self-standing microporous films of arrayed alumina nano-fibers including Schiff base molecules: effect of the environment around the molecules on their photo-luminescence. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 9738		5
17	Sulfur Tolerance of Pd, Pt and Pd-Pt Catalysts Supported on Amorphous Silica. <i>Journal of the Japan Petroleum Institute</i> , <b>2004</b> , 47, 222-223	1	5
16	In Situ XRay Absorption Fine Structure Studies on the Structure of Ni <sub>2</sub> P Supported on SiO <sub>2</sub> . <i>Physica Scripta</i> , <b>2005</b> , 822	2.6	5
15	Preparation of Alumina nanoparticles with various shapes via hydrothermal phase transformation under supercritical water conditions. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2013</b> , 47, 012045	0.4	4
14	Effect of Co addition for carburizing process of Ti-oxide/SiO <sub>2</sub> into TiC/SiO <sub>2</sub> . <i>Applied Catalysis A: General</i> , <b>2007</b> , 323, 104-109	5.1	4
13	In situ XAFS analysis of catalytically active cobalt species in porous clays for deep hydrodesulfurization. <i>Catalysis Today</i> , <b>2003</b> , 87, 117-121	5.3	4
12	Measurement of X-ray absorption spectra (XAS) of insulators by the partial electron yield method using an electron flood gun. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>2001</b> , 114-116, 1077-1081	1.7	4
11	Preparation of Mesoporous Silica Supported Nb Catalysts and in-situ XAFS Characterization During Carburization Process. <i>Physica Scripta</i> , <b>2005</b> , 807	2.6	4
10	In Situ EXAFS Studies on Ni <sub>2</sub> P Hydrodesulfurization Catalysts in the Presence of High Pressure and High Temperature Oil. <i>AIP Conference Proceedings</i> , <b>2007</b> ,	0	3
9	Preparation of mesoporous silica anchored mo catalysts and in-situ XAFS characterization under propene photometathesis reaction. <i>Studies in Surface Science and Catalysis</i> , <b>2003</b> , 359-362	1.8	3
8	Hydrodesulfurization of thiophenic compounds over synthetic smectite-type clays. <i>Journal of Physics and Chemistry of Solids</i> , <b>2004</b> , 65, 503-507	3.9	3
7	Comparison of PhotoDegradation of Polyimide Film by UV Irradiation in Air and in Vacuum. <i>Physica Scripta</i> , <b>2005</b> , 412	2.6	2
6	In-Situ XAFS Analysis of Dynamic Structural Change of PdPt NanoParticles Supported on Catalyst Surface Under Sulfidation Conditions. <i>Physica Scripta</i> , <b>2005</b> , 828	2.6	2
5	The Effect of Li on Structure of Supported Rh Particles in Zeolite. <i>Molecular Crystals and Liquid Crystals</i> , <b>2000</b> , 341, 473-478		2

4	Properties of Boehmite AlO(OH) Nanoparticles as the Coatings and Fillers. <i>Key Engineering Materials</i> , <b>2012</b> , 512-515, 604-608	0.4	1
3	In-situ XAFS observation of formation of Pd-Pt bimetallic particles in a mesoporous USY zeolite. <i>Studies in Surface Science and Catalysis</i> , <b>2003</b> , 146, 363-366	1.8	
2	71 In-situ XAFS study of USY zeolite supported Pd-Pt catalysts under reduction and sulfidation conditionsEffect of Pt on structure of bimetallic Pd-Pt particles□ <i>Studies in Surface Science and Catalysis</i> , <b>2003</b> , 145, 335-338	1.8	
1	EXAFS Observation of Li Additive Effect on Structure of Rh Particles Supported on Zeolite. <i>Japanese Journal of Applied Physics</i> , <b>1999</b> , 38, 81	1.4	