

# Takafumi Sato

## List of Publications by Year in descending order

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39  
papers

1,546  
citations

430874

18  
h-index

345221

36  
g-index

39  
all docs

39  
docs citations

39  
times ranked

1393  
citing authors

#	ARTICLE	IF	CITATIONS
1	pH-Responsive Permeation in Packed Layers of Polyacrylic Acid-Coated Alumina Particles. <i>Journal of Chemical Engineering of Japan</i> , 2022, 55, 193-200.	0.6	1
2	Tube-wall catalytic membrane reactor for hydrogen production by low-temperature ammonia decomposition. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 20257-20265.	7.1	44
3	Extraction of Antioxidants from Strawberry Leaves with Supercritical Carbon Dioxide and Water Mixtures. <i>Kagaku Kogaku Ronbunshu</i> , 2021, 47, 1-6.	0.3	1
4	Hydrogen Production and Purification, and Hydrogenation by Pressurized Electrolysis of Water with Hydrogen Permeable Palladium Membrane Electrode. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , 2021, 31, 32-40.	0.0	0
5	Effect of Alkali Metal Addition to a Ru/CeO <sub>2</sub> Catalyst Prepared by NaBH <sub>4</sub> Reduction on the Catalytic Performance for H <sub>2</sub> Production via NH <sub>3</sub> Decomposition. <i>Journal of Chemical Engineering of Japan</i> , 2021, 54, 77-86.	0.6	4
6	Hydrolysis kinetics of PMDA/ODA polyimide for monomer recovery using sodium hydroxide in high-temperature water. <i>Journal of Supercritical Fluids</i> , 2020, 166, 105037.	3.2	8
7	Development of a Cs-Ru/CeO <sub>2</sub> Spherical Catalyst Prepared by Impregnation and Washing Processes for Low-Temperature Decomposition of NH <sub>3</sub> : Characterization and Kinetic Analysis Results. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 18460-18470.	3.7	24
8	Extraction of strawberry leaves with supercritical carbon dioxide and entrainers: Antioxidant capacity, total phenolic content, and inhibitory effect on uric acid production of the extract. <i>Food and Bioproducts Processing</i> , 2019, 117, 160-169.	3.6	23
9	Improvement in Hydrogen Permeability of Palladium Membrane by Alloying with Transition Metals. <i>Journal of Chemical Engineering of Japan</i> , 2018, 51, 123-125.	0.6	5
10	Hydrothermal Extraction of Antioxidant Compounds from Green Coffee Beans and Decomposition Kinetics of 3-O-Caffeoylquinic Acid. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 7624-7632.	3.7	10
11	Low-temperature Hydrogenation of Toluene by Electrolysis of Water with Hydrogen Permeable Palladium Membrane Electrode. <i>Chemistry Letters</i> , 2017, 46, 477-480.	1.3	5
12	Effect of temperature and pressure on the extraction of strawberry receptacles with a mixture of supercritical carbon dioxide and entrainers. <i>Journal of Supercritical Fluids</i> , 2017, 130, 23-29.	3.2	12
13	Development of a Membrane-on-Catalyst Hydrogen Production Module for Steam Reforming of City Gas. <i>Kagaku Kogaku Ronbunshu</i> , 2017, 43, 336-341.	0.3	1
14	Preparation of Ru/ZrO <sub>2</sub> Catalysts by NaBH <sub>4</sub> Reduction and Their Catalytic Activity for NH <sub>3</sub> Decomposition To Produce H <sub>2</sub> . <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 12742-12749.	3.7	33
15	Continuous Hydrothermal Synthesis of Pr-Doped CaTiO <sub>3</sub> Nanoparticles from a TiO <sub>2</sub> Sol. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 7628-7634.	3.7	10
16	Using a hydrogen-permeable palladium membrane electrode to produce hydrogen from water and hydrogenate toluene. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 5419-5427.	7.1	8
17	Two-Step Enhanced Dehydration of IPA-Water Vapor Mixture using Water-Selective CHA Zeolite Membrane in Continuously Recycling System. <i>Kagaku Kogaku Ronbunshu</i> , 2016, 42, 8-14.	0.3	1
18	Effect of CO addition on upgrading bitumen in supercritical water. <i>Journal of Supercritical Fluids</i> , 2015, 104, 171-176.	3.2	18

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19	Upgrading of Heavy Oil by Hydrogenation through Partial Oxidation and Water-gas Shift Reaction in Supercritical Water. Journal of the Japan Petroleum Institute, 2014, 57, 1-10.	0.6	21
20	Kinetic enhancement of ammonia decomposition as a chemical hydrogen carrier in palladium membrane reactor. Catalysis Today, 2014, 236, 70-76.	4.4	64
21	Decomposition Kinetics of Bean Curd Refuse in Hot Compressed Water at Saturated Steam Pressure. Journal of Chemical Engineering of Japan, 2014, 47, 416-423.	0.6	0
22	Upgrading of Bitumen in the Presence of Hydrogen and Carbon Dioxide in Supercritical Water. Energy & Fuels, 2013, 27, 646-653.	5.1	40
23	Regeneration of Anti-oxidant in Lubrication Oil on Bifunctional Palladium Membrane Electrode. Journal of the Japan Petroleum Institute, 2012, 55, 215-218.	0.6	4
24	Effect of water density and air pressure on partial oxidation of bitumen in supercritical water. Fuel, 2012, 95, 347-351.	6.4	61
25	Continuous Hydrothermal Synthesis of Nickel Ferrite Nanoparticles Using a Central Collision-Type Micromixer: Effects of Temperature, Residence Time, Metal Salt Molality, and NaOH Addition on Conversion, Particle Size, and Crystal Phase. Industrial & Engineering Chemistry Research, 2011, 50, 9625-9631.	3.7	36
26	CFD Analysis and Design of Multi-tubular Membrane Reactor for Dehydrogenation of Cyclohexane. Journal of the Japan Petroleum Institute, 2010, 53, 283-291.	0.6	5
27	Steam reforming of biogas mixtures with a palladium membrane reactor system. Chemical Engineering Science, 2010, 65, 451-457.	3.8	34
28	Upgrading of bitumen with formic acid in supercritical water. Journal of Supercritical Fluids, 2010, 55, 232-240.	3.2	66
29	CFD Analysis of a Single Palladium Membrane Tube Reactor for the Dehydrogenation of Cyclohexane as a Chemical Hydrogen Carrier. Journal of Chemical Engineering of Japan, 2010, 43, 757-766.	0.6	6
30	Synthesis of micropore zeolite membranes with supercritical extraction method. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2008, 16, 30-34.	0.0	0
31	Preparation of thin palladium composite membrane tube by a CVD technique and its hydrogen permselectivity. Catalysis Today, 2005, 104, 231-237.	4.4	94
32	Chemical Reactions of C1 Compounds in Near-Critical and Supercritical Water. Chemical Reviews, 2004, 104, 5803-5822.	47.7	262
33	Upgrading of asphalt with and without partial oxidation in supercritical water. Fuel, 2003, 82, 1231-1239.	6.4	145
34	Conversion of Lignin with Supercritical Water-Phenol Mixtures. Energy & Fuels, 2003, 17, 922-928.	5.1	287
35	Alkylation of Phenol with Carbonyl Compounds in Supercritical Water. Journal of Chemical Engineering of Japan, 2003, 36, 339-342.	0.6	11
36	Regioselectivity of phenol alkylation in supercritical water. Green Chemistry, 2002, 4, 449-451.	9.0	16

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37	Non-catalytic and selective alkylation of phenol with propan-2-ol in supercritical water. Chemical Communications, 2001, , 1566-1567.	4.1	55
38	Kinetics of the Water-Gas Shift Reaction in Supercritical Water.. Kagaku Kogaku Ronbunshu, 1999, 25, 993-997.	0.3	10
39	Catalytic Hydrodesulfurization of Dibenzothiophene through Partial Oxidation and a Water-Gas Shift Reaction in Supercritical Water. Industrial & Engineering Chemistry Research, 1998, 37, 2634-2638.	3.7	121