

Takafumi Sato

List of Publications by Year in descending order

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39
papers

1,546
citations

430874

18
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345221

36
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39
all docs

39
docs citations

39
times ranked

1393
citing authors

#	ARTICLE	IF	CITATIONS
1	Conversion of Lignin with Supercritical Water-Phenol Mixtures. <i>Energy & Fuels</i> , 2003, 17, 922-928.	5.1	287
2	Chemical Reactions of C1 Compounds in Near-Critical and Supercritical Water. <i>Chemical Reviews</i> , 2004, 104, 5803-5822.	47.7	262
3	Upgrading of asphalt with and without partial oxidation in supercritical water. <i>Fuel</i> , 2003, 82, 1231-1239.	6.4	145
4	Catalytic Hydrodesulfurization of Dibenzothiophene through Partial Oxidation and a Water-Gas Shift Reaction in Supercritical Water. <i>Industrial & Engineering Chemistry Research</i> , 1998, 37, 2634-2638.	3.7	121
5	Preparation of thin palladium composite membrane tube by a CVD technique and its hydrogen permselectivity. <i>Catalysis Today</i> , 2005, 104, 231-237.	4.4	94
6	Upgrading of bitumen with formic acid in supercritical water. <i>Journal of Supercritical Fluids</i> , 2010, 55, 232-240.	3.2	66
7	Kinetic enhancement of ammonia decomposition as a chemical hydrogen carrier in palladium membrane reactor. <i>Catalysis Today</i> , 2014, 236, 70-76.	4.4	64
8	Effect of water density and air pressure on partial oxidation of bitumen in supercritical water. <i>Fuel</i> , 2012, 95, 347-351.	6.4	61
9	Non-catalytic and selective alkylation of phenol with propan-2-ol in supercritical water. <i>Chemical Communications</i> , 2001, , 1566-1567.	4.1	55
10	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
11	Upgrading of Bitumen in the Presence of Hydrogen and Carbon Dioxide in Supercritical Water. <i>Energy & Fuels</i> , 2013, 27, 646-653.	5.1	40
12	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. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 9625-9631.	3.7	36
13	Steam reforming of biogas mixtures with a palladium membrane reactor system. <i>Chemical Engineering Science</i> , 2010, 65, 451-457.	3.8	34
14	Preparation of Ru/ZrO ₂ Catalysts by NaBH ₄ Reduction and Their Catalytic Activity for NH ₃ Decomposition To Produce H ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 12742-12749.	3.7	33
15	Development of a Cs-Ru/CeO ₂ Spherical Catalyst Prepared by Impregnation and Washing Processes for Low-Temperature Decomposition of NH ₃ : Characterization and Kinetic Analysis Results. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 18460-18470.	3.7	24
16	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
17	Upgrading of Heavy Oil by Hydrogenation through Partial Oxidation and Water-gas Shift Reaction in Supercritical Water. <i>Journal of the Japan Petroleum Institute</i> , 2014, 57, 1-10.	0.6	21
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	Regioselectivity of phenol alkylation in supercritical water. <i>Green Chemistry</i> , 2002, 4, 449-451.	9.0	16
20	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
21	Alkylation of Phenol with Carbonyl Compounds in Supercritical Water.. <i>Journal of Chemical Engineering of Japan</i> , 2003, 36, 339-342.	0.6	11
22	Kinetics of the Water-Gas Shift Reaction in Supercritical Water.. <i>Kagaku Kogaku Ronbunshu</i> , 1999, 25, 993-997.	0.3	10
23	Continuous Hydrothermal Synthesis of Pr-Doped CaTiO ₃ Nanoparticles from a TiO ₂ Sol. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 7628-7634.	3.7	10
24	Hydrothermal Extraction of Antioxidant Compounds from Green Coffee Beans and Decomposition Kinetics of 3-O-Caffeoylquinic Acid. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 7624-7632.	3.7	10
25	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
26	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
27	CFD Analysis of a Single Palladium Membrane Tube Reactor for the Dehydrogenation of Cyclohexane as a Chemical Hydrogen Carrier. <i>Journal of Chemical Engineering of Japan</i> , 2010, 43, 757-766.	0.6	6
28	CFD Analysis and Design of Multi-tubular Membrane Reactor for Dehydrogenation of Cyclohexane. <i>Journal of the Japan Petroleum Institute</i> , 2010, 53, 283-291.	0.6	5
29	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
30	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
31	Regeneration of Anti-oxidant in Lubrication Oil on Bifunctional Palladium Membrane Electrode. <i>Journal of the Japan Petroleum Institute</i> , 2012, 55, 215-218.	0.6	4
32	Effect of Alkali Metal Addition to a Ru/CeO ₂ Catalyst Prepared by NaBH ₄ Reduction on the Catalytic Performance for H ₂ Production via NH ₃ Decomposition. <i>Journal of Chemical Engineering of Japan</i> , 2021, 54, 77-86.	0.6	4
33	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
34	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
35	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
36	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

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37	Hydrogen Production and Purification, and Hydrogenation by Pressurized Electrolysis of Water with Hydrogen Permeable Palladium Membrane Electrode. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2021, 31, 32-40.	0.0	0
38	Synthesis of micropore zeolite membranes with supercritical extraction method. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2008, 16, 30-34.	0.0	0
39	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