Shinya Sato

List of Publications by Year
in descending order

63 papers	1,760 citations	279798 23 h-index	265206 42 g-index
64 all docs	64 docs citations	64 times ranked	1626 citing authors

#	Article	IF	Citations
1	Synthesis of phenol from degraded lignin using synergistic effect of iron-oxide based catalysts: Oxidative cracking ability and acid-base properties. Catalysis Today, 2022, , .	4.4	0
2	Uniqueness of biphasic organosolv treatment of soft- and hardwood using water/1-butanol co-solvent. Industrial Crops and Products, 2021, 159, 113078.	5.2	19
3	Catalytic cracking of lignin model compounds and degraded lignin dissolved in inert solvent over mixed catalyst of iron oxide and MFI zeolite for phenol recovery. Fuel Processing Technology, 2020, 197, 106190.	7.2	10
4	Determination of Carbonyl Functional Groups in Heavy Oil Using Infrared Spectroscopy. Energy & Fuels, 2020, 34, 5231-5235.	5.1	18
5	Organosolv Treatment Using 1-Butanol and Degradation of Extracted Lignin Fractions into Phenolic Compounds over Iron Oxide Catalyst. Journal of the Japan Petroleum Institute, 2019, 62, 37-44.	0.6	12
6	Characterization of an Iron-Oxide-Based Catalyst Used for Catalytic Cracking of Heavy Oil with Steam. Energy & Fuels, 2018, 32, 2834-2839.	5.1	22
7	Molecular Weight Measuring Methods for Saturate Fraction Separated from Heavy Oil. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2018, 97, 45-52.	0.2	0
8	Iron Oxide-Based Catalyst for Catalytic Cracking of Heavy Oil. , 2018, , .		1
9	Fractionation of Degraded Lignin by Using a Water/1â€Butanol Mixture with a Solidâ€Acid Catalyst: A Potential Source of Phenolic Compounds. ChemCatChem, 2017, 9, 2875-2880.	3.7	24
10	Modification of Type Analysis for Heavy Oil by Downsizing of JPI Standard (JPI-5S-22-83). Journal of the Japan Petroleum Institute, 2016, 59, 307-310.	0.6	2
11	Determination of Monoaromatic Fraction in Saturate Fraction Separated by JPI Standard (JPI-5S-22-83) and Modified JPI Method. Journal of the Japan Petroleum Institute, 2016, 59, 311-316.	0.6	1
12	Desulfurization of Heavy Oil with Iron Oxide-based Catalysts Using Steam. Journal of the Japan Petroleum Institute, 2015, 58, 336-340.	0.6	7
13	Catalytic Cracking of Heavy Oil with Iron Oxide-based Catalysts Using Hydrogen and Oxygen Species from Steam. Journal of the Japan Petroleum Institute, 2015, 58, 329-335.	0.6	12
14	Mapping the Degree of Asphaltene Aggregation, Determined Using Rayleigh Scattering Measurements and Hansen Solubility Parameters. Energy & Fuels, 2015, 29, 2808-2812.	5.1	13
15	Solvent Effect of Water on Supercritical Water Treatment of Heavy Oil. Journal of the Japan Petroleum Institute, 2014, 57, 11-17.	0.6	16
16	Comparison of Thermal Cracking Processes for Athabasca Oil Sand Bitumen: Relationship between Conversion and Yield. Energy & Fuels, 2014, 28, 6322-6325.	5.1	19
17	Bitumen Cracking in Supercritical Water Upflow. Energy & Fuels, 2014, 28, 858-861.	5.1	30
18	Dependence of the Molecular Structural Parameters of Asphaltene on the Molecular Weight. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2014, 93, 142-150.	0.2	2

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19	Upgrading of Bitumen in the Presence of Hydrogen and Carbon Dioxide in Supercritical Water. Energy & Fuels, 2013, 27, 646-653.	5.1	40
20	Supra-Molecular Asphaltene Relaxation Technology. Journal of the Japan Petroleum Institute, 2013, 56, 61-68.	0.6	4
21	Separation of Asphaltene Using Columns Packed with Teflon Beads. Journal of the Japan Petroleum Institute, 2012, 55, 142-147.	0.6	0
22	DNA methylation profile of Aire-deficient mouse medullary thymic epithelial cells. BMC Immunology, 2012, 13, 58.	2.2	8
23	Effect of Supercritical Water on Desulfurization Behavior of Oil Sand Bitumen. Journal of the Japan Petroleum Institute, 2012, 55, 261-266.	0.6	8
24	Effect of water properties on the degradative extraction of asphaltene using supercritical water. Journal of Supercritical Fluids, 2012, 68, 113-116.	3.2	35
25	CORRECTIONS: We apologize for the following error which occurred in Vol. 56, No. 2 (March issue), page 61.. Journal of the Japan Petroleum Institute, 2012, 56, 180-181.	0.6	0
26	Production of Light Oil by Oxidative Cracking of Oil Sand Bitumen Using Iron Oxide Catalysts in a Steam Atmosphere. Energy & Fuels, 2011, 25, 524-527.	5.1	43
27	Estimation of Carbon Aromaticity for Asphaltenes through Elemental Analysis and Proton NMR: Carbon Aromaticity of Pentane-insoluble and Heptane-soluble Fraction. Nihon Energi Gakkaishi/Journal of the Japan Institute of Energy, 2011, 90, 274-276.	0.2	5
28	Effect of supercritical water on upgrading reaction of oil sand bitumen. Journal of Supercritical Fluids, 2010, 55, 223-231.	3.2	137
29	Enrichment of short interspersed transposable elements to embryonic stem cellâ€specific hypomethylated gene regions. Genes To Cells, 2010, 15, 855-865.	1.2	7
30	Genomeâ€wide DNA methylation profile of tissueâ€dependent and differentially methylated regions (Tâ€DMRs) residing in mouse pluripotent stem cells. Genes To Cells, 2010, 15, 607-618.	1.2	30
31	Conditions of Supercritical Water for Good Miscibility with Heavy Oils. Journal of the Japan Petroleum Institute, 2010, 53, 61-62.	0.6	26
32	Oxidative Desulfurization of Naphtha with Hydrogen Peroxide in Presence of Acid Catalyst in Naphtha/Acetic Acid Biphasic System. Journal of the Japan Petroleum Institute, 2010, 53, 251-255.	0.6	7
33	Separation of Asphaltene by Dimethyl Ether. Journal of the Japan Petroleum Institute, 2010, 53, 256-259.	0.6	3
34	Effect of 1-Methylnaphthalene Solvent on Cracking of Oil Sand Bitumen with Iron Oxide Catalyst in Steam Atmosphere. Journal of the Japan Petroleum Institute, 2010, 53, 260-261.	0.6	2
35	Epigenetic marks of Insulinâ€related transcription factor network by DNA methylation. FASEB Journal, 2010, 24, 713.4.	0.5	0
36	Enrichment of Short interspersed transposable elements (SINEs) in hypomethylated genic regions in embryonic stem cells. FASEB Journal, 2010, 24, 459.2.	0.5	0

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37	A novel n-alkane-degrading bacterium as a minor member of p-xylene-degrading sulfate-reducing consortium. Biodegradation, 2009, 20, 383-390.	3.0	25
38	Energy-efficient ultra-deep desulfurization of kerosene based on selective photooxidation and adsorption. Fuel, 2009, 88, 1961-1969.	6.4	57
39	Recovery of Lighter Fuels by Cracking Heavy Oil with Zirconiaâ^'Aluminaâ^'Iron Oxide Catalysts in a Steam Atmosphere. Energy & Fuels, 2009, 23, 1338-1341.	5.1	49
40	Kinetic Model for Catalytic Cracking of Heavy Oil with a Zirconiaâ^'Aluminaâ^'Iron Oxide Catalyst in a Steam Atmosphere. Energy & Fuels, 2009, 23, 5308-5311.	5.1	12
41	Adsorptive Separation of Infinitesimal Sulfur Oxide in Naphtha â€"Reactivation of Silica Gel Using Toluene and Dimethyl Etherâ€". Journal of the Japan Petroleum Institute, 2009, 52, 21-26.	0.6	1
42	Anaerobic degradation of p-xylene in sediment-free sulfate-reducing enrichment culture. Biodegradation, 2008, 19, 909-913.	3.0	17
43	DNA methylation profile of tissue-dependent and differentially methylated regions (T-DMRs) in mouse promoter regions demonstrating tissue-specific gene expression. Genome Research, 2008, 18, 1969-1978.	5.5	161
44	Tungstophosphoric Acid-catalyzed Oxidative Desulfurization of Naphtha with Hydrogen Peroxide in Naphtha/Acetic Acid Biphasic System. Journal of the Japan Petroleum Institute, 2007, 50, 329-334.	0.6	8
45	Effect ofn-Pentane andn-Heptane Insolubles on the Pyrolysis of Vacuum Residue. Energy & Fuels, 2006, 20, 2475-2477.	5.1	8
46	Adsorptive Separation of Infinitesimal Sulfur Oxide in Naphthaâ€"Screening of Adsorbentsâ€". Journal of the Japan Petroleum Institute, 2006, 49, 210-213.	0.6	9
47	Hydrocracking Brazilian Marlim vacuum residue with natural limonite. Part 1: catalytic activity of natural limonite. Fuel, 2005, 84, 411-416.	6.4	62
48	Molecular Weight Calibration of Asphaltenes Using Gel Permeation Chromatography/Mass Spectrometry. Energy & Fuels, 2005, 19, 1991-1994.	5.1	57
49	Estimation of the Structural Parameter Distribution of Asphaltene Using a Preparative GPC Technique. ACS Symposium Series, 2005, , 65-74.	0.5	0
50	Coking Reactivities of Petroleum Asphaltenes on Thermal Cracking. ACS Symposium Series, 2005, , 171-181.	0.5	1
51	Observation of Stepwise Association of Petroleum-derived Asphaltene and Maltene Components by Surface Tension Measurements. Journal of the Japan Petroleum Institute, 2004, 47, 32-36.	0.6	5
52	Structural Relaxation Behaviors of Three Different Asphaltenes Using MD Calculations. Petroleum Science and Technology, 2004, 22, 901-914.	1.5	42
53	Characterization of Asphaltenes from Brazilian Vacuum Residue Using Heptaneâ^'Toluene Mixtures. Energy & Fuels, 2004, 18, 1792-1797.	5.1	33
54	Analysis of the Molecular Weight Distribution of Petroleum Asphaltenes Using Laser Desorption-Mass Spectrometry. Energy & Fuels, 2004, 18, 1405-1413.	5.1	98

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55	Characterization of Asphaltene Aggregates Using X-ray Diffraction and Small-Angle X-ray Scattering. Energy & Fuels, 2004, 18, 1118-1125.	5.1	193
56	Molecular Dynamics Simulation of the Heat-Induced Relaxation of Asphaltene Aggregates. Energy & Fuels, 2003, 17, 135-139.	5.1	94
57	Molecular Dynamics Simulation of Structural Relaxation of Asphaltene Aggregates. Petroleum Science and Technology, 2003, 21, 491-505.	1.5	31
58	Extraction of Phenol in Water Phase Using Liquefied Dimethyl Ether. Journal of the Japan Petroleum Institute, 2003, 46, 375-378.	0.6	12
59	Screening Method for Oil Shale Samples for Fischer Assay. Journal of the Japan Petroleum Institute, 2003, 46, 210-213.	0.6	1
60	Methanol-Mediated Extraction of Coal Liquid (5). Conceptual Design and Mass Balance of a Continuous Methanol-Mediated Extraction Process. Energy & Fuels, 2002, 16, 1337-1342.	5.1	17
61	Successive changes in community structure of an ethylbenzene-degrading sulfate-reducing consortium. Water Research, 2002, 36, 2813-2823.	11.3	34
62	Photocatalytic oxidation of dibenzothiophenes in acetonitrile using TiO2: effect of hydrogen peroxide and ultrasound irradiation. Journal of Photochemistry and Photobiology A: Chemistry, 2002, 149, 183-189.	3.9	144
63	The Development of Support Program for the Analysis of Average Molecular Structures by Personal Computer.. Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute), 1997, 40, 46-51.	0.1	24