

# Masato Morimoto

## List of Publications by Citations

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33  
papers

658  
citations

15  
h-index

25  
g-index

33  
ext. papers

740  
ext. citations

5  
avg, IF

3.86  
L-index

#	Paper	IF	Citations
33	Effect of supercritical water on upgrading reaction of oil sand bitumen. <i>Journal of Supercritical Fluids</i> , <b>2010</b> , 55, 223-231	4.2	120
32	Fractionation of brown coal by sequential high temperature solvent extraction. <i>Fuel</i> , <b>2009</b> , 88, 1485-1490	7.1	69
31	Comparison of Hansen Solubility Parameter of Asphaltenes Extracted from Bitumen Produced in Different Geographical Regions. <i>Energy &amp; Fuels</i> , <b>2014</b> , 28, 891-897	4.1	60
30	Low Rank Coal Upgrading in a Flow of Hot Water. <i>Energy &amp; Fuels</i> , <b>2009</b> , 23, 4533-4539	4.1	41
29	The synergistic effect between supercritical water and redox properties of iron oxide nanoparticles during in-situ catalytic upgrading of heavy oil with formic acid. Isotopic study. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 230, 91-101	21.8	33
28	Effect of water properties on the degradative extraction of asphaltene using supercritical water. <i>Journal of Supercritical Fluids</i> , <b>2012</b> , 68, 113-116	4.2	30
27	Bitumen Cracking in Supercritical Water Upflow. <i>Energy &amp; Fuels</i> , <b>2014</b> , 28, 858-861	4.1	27
26	Conversion of a Wide Range of Low-Rank Coals into Upgraded Coals and Thermoplastic Extracts Having Similar Chemical and Physical Properties Using Degradative Hydrothermal Extraction. <i>Energy &amp; Fuels</i> , <b>2010</b> , 24, 3060-3065	4.1	25
25	Conditions of Supercritical Water for Good Miscibility with Heavy Oils. <i>Journal of the Japan Petroleum Institute</i> , <b>2010</b> , 53, 61-62	1	23
24	Hydrothermal extraction and hydrothermal gasification process for brown coal conversion. <i>Fuel</i> , <b>2008</b> , 87, 546-551	7.1	22
23	Molecular composition of extracts obtained by hydrothermal extraction of brown coal. <i>Fuel</i> , <b>2015</b> , 159, 751-758	7.1	17
22	Comparison of Thermal Cracking Processes for Athabasca Oil Sand Bitumen: Relationship between Conversion and Yield. <i>Energy &amp; Fuels</i> , <b>2014</b> , 28, 6322-6325	4.1	17
21	Determination of Hansen Solubility Parameters of Asphaltene Model Compounds. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 11296-11303	4.1	16
20	Asphaltene Aggregation Behavior in Bromobenzene Determined By Small-angle X-ray Scattering. <i>Energy &amp; Fuels</i> , <b>2015</b> , 29, 5737-5743	4.1	15
19	Application of a Digital Oil Model to Solvent-Based Enhanced Oil Recovery of Heavy Crude Oil. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 10868-10877	4.1	15
18	Solvent Effect of Water on Supercritical Water Treatment of Heavy Oil. <i>Journal of the Japan Petroleum Institute</i> , <b>2014</b> , 57, 11-17	1	14
17	Resolution-enhanced Kendrick mass defect plots for the data processing of mass spectra from wood and coal hydrothermal extracts. <i>Fuel</i> , <b>2019</b> , 235, 944-953	7.1	14

16	Static solar concentrator with vertical flat plate photovoltaic cells and switchable white/transparent bottom plate. <i>Solar Energy Materials and Solar Cells</i> , <b>2005</b> , 87, 299-309	6.4	13
15	Development of Digital Oil for Heavy Crude Oil: Molecular Model and Molecular Dynamics Simulations. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 2781-2792	4.1	11
14	Mapping the Degree of Asphaltene Aggregation, Determined Using Rayleigh Scattering Measurements and Hansen Solubility Parameters. <i>Energy &amp; Fuels</i> , <b>2015</b> , 29, 2808-2812	4.1	11
13	Isotope tracing study on hydrogen donating capability of supercritical water assisted by formic acid to upgrade heavy oil: Computer simulation vs. experiment. <i>Fuel</i> , <b>2018</b> , 225, 161-173	7.1	10
12	Finding of coal organic microspheres during hydrothermal treatment of brown coal. <i>Fuel</i> , <b>2017</b> , 195, 143-150	7.1	9
11	Effect of Supercritical Water on Desulfurization Behavior of Oil Sand Bitumen. <i>Journal of the Japan Petroleum Institute</i> , <b>2012</b> , 55, 261-266	1	8
10	Construction, Validation, and Application of Digital Oil: Investigation of Asphaltene Association Toward Asphaltene-Precipitation Prediction. <i>SPE Journal</i> , <b>2018</b> , 23, 952-968	3.1	7
9	Development of Upgrading Method of Low Rank Coal for its Utilization in Cokemaking Process. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , <b>2010</b> , 96, 240-248	0.5	7
8	Production of carbonaceous microspheres from wood sawdust by a novel hydrothermal carbonization and extraction method. <i>RSC Advances</i> , <b>2017</b> , 7, 42123-42128	3.7	6
7	A novel process for the production of aromatic hydrocarbons from brown coal in water medium by hydrothermal oxidation and catalytic hydrothermal decarboxylation. <i>Fuel</i> , <b>2016</b> , 182, 437-445	7.1	5
6	Specific Asphaltene Aggregation in Toluene at Around 50 mg/L. <i>Journal of the Japan Petroleum Institute</i> , <b>2013</b> , 56, 58-59	1	5
5	An efficient production of benzene from benzoic acid in subcritical water using a copper(I) oxide catalyst. <i>Green Chemistry</i> , <b>2015</b> , 17, 791-794	10	4
4	Construction of Digital Oil for Investigation of Crude Oil Properties at Different Thermodynamic Conditions <b>2016</b> ,		3
3	Effect of hydrothermal conditions on production of coal organic microspheres. <i>Fuel</i> , <b>2018</b> , 234, 1301-1312	7.1	1
2	Optimizing the Iodide/Iodonium/O <sub>2</sub> Oxidation Cycle Enhances the Scope, Selectivity, and Yields of Hydroiodic Acid-Catalyzed Multicomponent Cyclocondensation Reactions. <i>Advanced Synthesis and Catalysis</i> , <b>2021</b> , 363, 4720	5.6	
1	Asphaltene Dispersion in Mixed Poor Solvents. <i>Journal of the Japan Petroleum Institute</i> , <b>2021</b> , 64, 302-305		