Kouichi Miura

List of Publications by Year
in descending order

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69 papers	2,224 citations	218677 26 h-index	223800 46 g-index
69 all docs	69 docs citations	69 times ranked	1459 citing authors

#	Article	IF	Citations
1	A Simple Method for Estimatingf(E)andk0(E) in the Distributed Activation Energy Model. Energy & Fuels, 1998, 12, 864-869.	5.1	412
2	Estimation of Hydrogen Bond Distribution in Coal through the Analysis of OH Stretching Bands in Diffuse Reflectance Infrared Spectrum Measured by in-Situ Technique. Energy & Fuels, 2001, 15, 599-610.	5.1	170
3	New Oxidative Degradation Method for Producing Fatty Acids in High Yields and High Selectivity from Low-Rank Coals. Energy & Fuels, 1996, 10, 1196-1201.	5.1	122
4	A New Two-Step Oxidative Degradation Method for Producing Valuable Chemicals from Low Rank Coals under Mild Conditions. Energy & Fuels, 2001, 15, 611-617.	5.1	101
5	Analysis of Formation Rates of Sulfur-Containing Gases during the Pyrolysis of Various Coals. Energy & Fuels, 2001, 15, 629-636.	5.1	95
6	Fractionation of brown coal by sequential high temperature solvent extraction. Fuel, 2009, 88, 1485-1490.	6.4	73
7	Extraction of Low-Rank Coals Oxidized with Hydrogen Peroxide in Conventionally Used Solvents at Room Temperature. Energy & Fuels, 1997, 11, 825-831.	5.1	70
8	INTRAPARTICLE DIFFUSIVITIES IN LIQUID-PHASE ADSORPTION WITH NONLINEAR ISOTHERMS. Journal of Chemical Engineering of Japan, 1975, 8, 367-373.	0.6	47
9	Analysis of Pyrolysis Reactions of Various Coals Including Argonne Premium Coals Using a New Distributed Activation Energy Model. Energy & Fuels, 1997, 11, 972-977.	5.1	47
10	Production of clean fuels by solvent skimming of coal at around 350Â°C. Fuel, 2004, 83, 733-738.	6.4	46
11	Kinetics of thermal regeneration reaction of activated carbons used in waste water treatment. AICHE Journal, 1982, 28, 737-746.	3.6	45
12	Low Rank Coal Upgrading in a Flow of Hot Water. Energy & Fuels, 2009, 23, 4533-4539.	5.1	44
13	Production of High-Grade Carbonaceous Materials and Fuel Having Similar Chemical and Physical Properties from Various Types of Biomass by Degradative Solvent Extraction. Energy & Fuels, 2012, 26, 4521-4531.	5.1	44
14	Upgrading and dewatering of low rank coals through solvent treatment at around 350Â°C and low temperature oxygen reactivity of the treated coals. Fuel, 2013, 114, 16-20.	6.4	43
15	Conversion of Tar in Hot Coke Oven Gas by Pyrolysis and Steam Reforming.. Journal of Chemical Engineering of Japan, 2003, 36, 735-741.	0.6	42
16	Preparation of High-Grade Carbonaceous Materials Having Similar Chemical and Physical Properties from Various Low-Rank Coals by Degradative Solvent Extraction. Energy & Fuels, 2012, 26, 6897-6904.	5.1	42
17	Analytical solutions for the breakthrough curves of fixed-bed adsorbers under constant pattern and linear driving force approximations.. Journal of Chemical Engineering of Japan, 1977, 10, 490-493.	0.6	39
18	Novel carbon-rich additives preparation by degradative solvent extraction of biomass wastes for coke-making. Bioresource Technology, 2016, 207, 85-91.	9.6	39

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19	Adsorption of Water Vapor from Ambient Atmosphere onto Coal Fines Leading to Spontaneous Heating of Coal Stockpile. Energy & Fuels, 2016, 30, 219-229.	5.1	38
20	Enhancement of Reduction Rate of Iron Ore by Utilizing Iron Ore/Carbon Composite Consisting of Fine Iron Ore Particles and Highly Thermoplastic Carbon Material. ISIJ International, 2011, 51, 1227-1233.	1.4	37
21	Preparation of carbon fibers from low-molecular-weight compounds obtained from low-rank coal and biomass by solvent extraction. New Carbon Materials, 2017, 32, 41-47.	6.1	35
22	A New Conversion Method for Recovering Valuable Chemicals from Oil Palm Shell Wastes Utilizing Liquid-Phase Oxidation with H2O2under Mild Conditions. Energy & Fuels, 2000, 14, 1212-1218.	5.1	34
23	Two-Stage Conversion of Low-Rank Coal or Biomass into Liquid Fuel under Mild Conditions. Energy & Fuels, 2015, 29, 3127-3133.	5.1	33
24	Mechanism study of degradative solvent extraction of biomass. Fuel, 2016, 165, 10-18.	6.4	31
25	A New Method for Estimating the Cross-Linking Reaction during the Pyrolysis of Brown Coal.. Journal of Chemical Engineering of Japan, 2002, 35, 778-785.	0.6	30
26	Examination of Low-Temperature Oxidation of Low-Rank Coals, Aiming at Understanding Their Self-Ignition Tendency. Energy & Fuels, 2014, 28, 2402-2407.	5.1	29
27	A Simulation Model for the Pyrolysis of Orimulsionâ€. Energy & Fuels, 1997, 11, 819-824.	5.1	27
28	A simplified method to design fixed-bed adsorbers for the Freundlich isotherm.. Journal of Chemical Engineering of Japan, 1976, 9, 388-392.	0.6	26
29	Flash Pyrolysis of Coal Modified through Liquid Phase Oxidation and Solvent Swelling. Energy & Fuels, 1996, 10, 364-370.	5.1	26
30	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. Energy & Fuels, 2010, 24, 3060-3065.	5.1	26
31	Estimation of Hydrogen Bond Distributions Formed between Coal and Polar Solvents Using in Situ IR Technique. Energy & Fuels, 2002, 16, 23-31.	5.1	25
32	Enhancement of Reduction Rate of Iron Ore by Utilizing Low Grade Iron Ore and Brown Coal Derived Carbonaceous Materials. ISIJ International, 2011, 51, 1234-1239.	1.4	22
33	Growth Kinetics of Polycrystalline Silicon from Silane by Thermal Chemical Vapor Deposition Method. Journal of the Electrochemical Society, 1990, 137, 1000-1007.	2.9	21
34	Experimental verification of design methods for liquid phase fixed-bed adsorbers.. Journal of Chemical Engineering of Japan, 1977, 10, 27-34.	0.6	19
35	Extraction of Low Rank Coals by Coal Derived Oils at 350.DEG.C. for Producing Clean Fuels.. Journal of Chemical Engineering of Japan, 2003, 36, 742-750.	0.6	19
36	A method for calculating breakthrough curves of bicomponent fixed-bed adsorption under constant pattern and linear driving force.. Journal of Chemical Engineering of Japan, 1979, 12, 281-288.	0.6	17

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37	Simplified Method to Estimate f(E) in Distributed Activation Energy Model for Analyzing Coal Pyrolysis Reaction.. Journal of Chemical Engineering of Japan, 1998, 31, 228-235.	0.6	17
38	Degradative solvent extraction of biomass using petroleum based solvents. Bioresource Technology, 2018, 260, 169-176.	9.6	17
39	Enhancement of Gasification Reactivity of Low-Rank Coal through High-Temperature Solvent Treatment. Energy & Fuels, 2014, 28, 5690-5695.	5.1	16
40	Degradative solvent extraction of demineralized and ion-exchanged low-rank coals. Journal of Fuel Chemistry and Technology, 2014, 42, 897-904.	2.0	14
41	Analytical solutions for the breakthrough curves of bicomponent fixed-bed adsorption under the langmuir isotherms.. Journal of Chemical Engineering of Japan, 1979, 12, 329-331.	0.6	13
42	TG-DSC Study To Measure Heat of Desorption of Water during the Thermal Drying of Coal and To Examine the Role of Adsorption of Water Vapor for Examining Spontaneous Heating of Coal over 100 Â°C. Energy & Fuels, 2017, 31, 10691-10698.	5.1	13
43	Extended Detailed Chemical Kinetic Model for Benzene Pyrolysis with New Reaction Pathways Including Oligomer Formation. Industrial & Engineering Chemistry Research, 2014, 53, 7956-7964.	3.7	12
44	Observation of Retrogressive Reactions under Liquefaction Conditions Utilizing the Oxidized Coal Completely Dissolved in Solvent at Room Temperature. Energy & Fuels, 1998, 12, 975-980.	5.1	10
45	Formulation of the Heat Generation Rate of Low-Temperature Oxidation of Coal by Measuring Heat Flow and Weight Change at Constant Temperatures Using Thermogravimetryâ€“Differential Scanning Calorimetry. Energy & Fuels, 2017, 31, 11669-11680.	5.1	10
46	Effect of Solvent on the Degradative Solvent Extraction of Low Rank Coal. Energy & Fuels, 2017, 31, 11954-11962.	5.1	9
47	Production of Metallurgical Coke Utilizing Low-Rank Coals Upgraded by Mild Solvent Treatment. ISIJ International, 2017, 57, 37-40.	1.4	8
48	Measurement of Temperature Increase of Dried Coal on Exposure to Ambient Atmosphere. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2015, 94, 1169-1172.	0.2	8
49	Solvent Recycling Operation of the Degradative Solvent Extraction of Biomass to Minimize the Amount of Solvent Required. Energy & Fuels, 2018, 32, 11555-11563.	5.1	7
50	Fossil Energy. Flash Pyrolysis of Coal-Methanol Slurry.. Kagaku Kogaku Ronbunshu, 1994, 20, 926-933.	0.3	6
51	Regeneration of activated carbons used in waste-water treatment by a moving-bed regenerator. AICHE Journal, 1985, 31, 1986-1996.	3.6	5
52	Antibacterial Activity against <i>Staphylococcus aureus</i> of Carbon Materials Dispersed with ZnO. Electrochemistry, 2000, 68, 280-283.	1.4	5
53	Fossil Energy. Flash Pyrolysis of Coal as A Means for Obtaining Valuable Chemicals.. Kagaku Kogaku Ronbunshu, 1994, 20, 733-746.	0.3	4
54	Fossil Energy. Co-Pyrolysis of Coal, Biomass and Waste Plastics.. Kagaku Kogaku Ronbunshu, 1994, 20, 918-925.	0.3	4

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55	Examination of the Carbonization Behavior of Coals by Using Raman Sectroscopy and Kinetic Analysis of Hydrogen Formation. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2006, 92, 145-151.	0.4	4
56	Simulation of Spontaneous Heating of a Small Fixed Bed of Dried Coal Exposed to a Flowing Wet Air Stream. Energy & Fuels, 2019, 33, 6148-6160.	5.1	4
57	Reduction and Gasification Characteristics of A Unique Iron Ore/carbon Composite Prepared from Robe River and A Coal Tar Vacuum Residue. ISIJ International, 2019, 59, 2182-2192.	1.4	4
58	Production of Fuel Gas through the Hydrothermal Gasification of Wastewater Using Highly Active Carbon-Base Catalyst. Journal of Chemical Engineering of Japan, 2007, 40, 1210-1215.	0.6	3
59	Experimental Study of Gas-Phase Pyrolysis Reaction of Benzene to Investigate the Early Stage of Coke Formation. Journal of Chemical Engineering of Japan, 2014, 47, 406-415.	0.6	3
60	Examination of Interactions of Solvent-Treated Coal with Oxygen and Water Vapor at Over 100 Â°C Using TG-DSC for Examining Propensity to Spontaneous Heating of the Solvent-Treated Coal. Energy & Fuels, 2017, 31, 11723-11730.	5.1	3
61	Antibacterial Activity of Zn2+ Ion Exchange Resin Carbonized at Several Temperatures. Tanso, 2000, 2000, 2-7.	0.1	3
62	Preparation of Immobilized Nanostructured Titania by Using Mesoporous Carbons as Nanoreactors: Investigation of Process Parameters. Journal of Chemical Engineering of Japan, 2008, 41, 497-506.	0.6	1
63	Upgrading of low-rank coal and biomass utilizing mild solvent treatment at around 350°C. , 2011, , .		1
64	Co-Processing of <i>Resid</i> and Low-Grade Iron Ore to Produce Light Oil and an Iron Ore/Carbon Composite for Iron Making. Journal of Chemical Engineering of Japan, 2016, 49, 300-304.	0.6	1
65	Coal Pyrolysis as a Means to Recover Valuable Chemicals from Coal. International Journal of the Society of Materials Engineering for Resources, 1999, 7, 222-229.	0.1	1
66	Kinetic Study on the Coagula Formation Reactions Using the Orthogonal Collocation Method. Journal of Chemical Engineering of Japan, 2007, 40, 480-486.	0.6	1
67	Kinetic Study on the Coagula Formation Reactions Using an Extended Unreacted Core Model. Journal of Chemical Engineering of Japan, 2007, 40, 473-479.	0.6	1
68	Preparation of nanosized metal (oxides) by gas phase hydrolysis using mesoporous materials as nanoreactors. Journal of Nanoparticle Research, 2009, 11, 2049-2059.	1.9	0
69	MICROPOROUS CARBON ADSORBENTS FROM OIL PALM SHELLS FOR GAS SEPARATION. , 2000, , .		0