Jun-ichiro Hayashi

List of Publications by Year
in descending order

239	9,370	36303	54911
papers	citations	51 h-index	84 g-index

245	245	245	5973
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dissolution of Iron Oxides Highly Loaded in Oxalic Acid Aqueous Solution for a Potential Application in Iron-Making. ISIJ International, 2022, 62, 2466-2475.	1.4	6
2	Catalytic deep eutectic solvent for levoglucosenone production by pyrolysis of cellulose. Bioresource Technology, 2022, 344, 126323.	9.6	10
3	Treatment of wastewater from biomass pyrolysis and recovery of its organic compounds with char-assisted drying. Fuel, 2022, 312, 122825.	6.4	0
4	Hot-Compressed Water Treatment and Subsequent Binderless Hot Pressing for High-Strength Plate Preparation from Rice Husk. ACS Sustainable Chemistry and Engineering, 2022, 10, 1932-1942.	6.7	3
5	The Antioxidant Activity of the Extracts from Disposition of the Waste Sawdust Substrate from Shiitake Mushroom (Lentinula edodes) Cultivation by the Two-step Hot/hot-compressed Water Percolation. Mokuzai Gakkai Shi, 2022, 68, 26-35.	0.2	0
6	Various acids functionalized polyanilineâ€“peanut shell activated carbon composites for dye removal. Journal of Material Cycles and Waste Management, 2022, 24, 1508-1523.	3.0	10
7	Staged Pyrolytic Conversion of Acid-Loaded Woody Biomass for Production of High-Strength Coke and Valorization of Volatiles. Energy & Fuels, 2022, 36, 6949-6958.	5.1	7
8	Improvement of levoglucosenone selectivity in liquid phase conversion of cellulose-derived anhydrosugar over solid acid catalysts. Fuel Processing Technology, 2021, 212, 106625.	7.2	18
9	Formation of p-Unsubstituted Phenols in Base-catalyzed Lignin Depolymerization. MATEC Web of Conferences, 2021, 333, 05006.	0.2	2
10	Analysis of Primary Reactions in Biomass Oxidation with O₂ in Hot-Compressed Alkaline Water. ACS Omega, 2021, 6, 4236-4246.	3.5	1
11	Impact of heating rates on the evolution of function groups of the biochar from lignin pyrolysis. Journal of Analytical and Applied Pyrolysis, 2021, 155, 105031.	5.5	56
12	Catalytic Strategies for Levoglucosenone Production by Pyrolysis of Cellulose and Lignocellulosic Biomass. Energy & Fuels, 2021, 35, 9809-9824.	5.1	22
13	An Approach to Simulate Vapor Phase Reactions of Coal Volatiles in a Reducing Section of the Two Stage Entrained Flow Gasifier with a Detailed Chemical Kinetic Model. Journal of Chemical Engineering of Japan, 2021, 54, 334-343.	0.6	2
14	Leaching Char with Acidic Aqueous Phase from Biomass Pyrolysis: Removal of Alkali and Alkaline-Earth Metallic Species and Uptakes of Water-Soluble Organics. Energy & Fuels, 2021, 35, 12237-12251.	5.1	6
15	Review on the catalytic tri-reforming of methane - Part II: Catalyst development. Applied Catalysis A: General, 2021, 623, 118286.	4.3	40
16	Fast Synthesis of Hydroxymethylfurfural from Levoglucosenone by Mixing with Sulphuric Acid and Heating in a Microtube Reactor. MATEC Web of Conferences, 2021, 333, 05005.	0.2	2
17	Influence of ionic liquid type on porous carbon formation during the ionothermal pyrolysis of cellulose. Journal of Analytical and Applied Pyrolysis, 2020, 145, 104728.	5.5	19
18	Change in Catalytic Activity of Potassium during CO₂ Gasification of Char. Energy & Fuels, 2020, 34, 225-234.	5.1	7

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19	Segregation of char and silica sand particles in a hot-fluidized-bed steam gasifier. Advanced Powder Technology, 2020, 31, 867-874.	4.1	3
20	Analytical Procedure for Proximate Analysis of Algal Biomass: Case Study for Spirulina platensis and Chlorella vulgaris. Energy & Fuels, 2020, 34, 474-482.	5.1	19
21	Microwave-assisted dry reforming of methane for syngas production: a review. Environmental Chemistry Letters, 2020, 18, 1987-2019.	16.2	51
22	Sustainable Iron-Making Using Oxalic Acid: The Concept, A Brief Review of Key Reactions, and An Experimental Demonstration of the Iron-Making Process. ACS Sustainable Chemistry and Engineering, 2020, 8, 13292-13301.	6.7	19
23	Selective Production of Phenolic Monomers and Biochar by Pyrolysis of Lignin with Internal Recycling of Heavy Oil. Energy & Fuels, 2020, 34, 7183-7189.	5.1	8
24	Sequential conversion of lignite in alkaline water by oxidative degradation, dissolution and catalytic gasification. Fuel, 2020, 278, 118329.	6.4	3
25	Methane decomposition with a minimal catalyst: An optimization study with response surface methodology over Ni/SiO2 nanocatalyst. International Journal of Hydrogen Energy, 2020, 45, 14383-14395.	7.1	21
26	Selective Hydrodeoxygenation of Î³-Valerolactone over Silica-supported Rh-based Bimetallic Catalysts. Energy & Fuels, 2020, 34, 7190-7197.	5.1	11
27	Deep Delignification of Woody Biomass by Repeated Mild Alkaline Treatments with Pressurized O₂. ACS Omega, 2020, 5, 29168-29176.	3.5	8
28	The Distinctive Effects of Glucose-Derived Carbon on the Performance of Ni-Based Catalysts in Methane Dry Reforming. Catalysts, 2020, 10, 21.	3.5	5
29	Improvement of Pelletability of Woody Biomass by Torrefaction under Pressurized Steam. Energy & Fuels, 2019, 33, 11253-11262.	5.1	26
30	Re-examination of Thermogravimetric Kinetic Analysis of Lignite Char Gasification. Energy & Fuels, 2019, 33, 10913-10922.	5.1	4
31	Biochar-Assisted Water Electrolysis. Energy & Fuels, 2019, 33, 11246-11252.	5.1	24
32	Quantitative Description of Catalysis of Inherent Metallic Species in Lignite Char during CO₂ Gasification. Energy & Fuels, 2019, 33, 5996-6007.	5.1	6
33	Two-step conversion of cellulose to levoglucosenone using updraft fixed bed pyrolyzer and catalytic reformer. Fuel Processing Technology, 2019, 191, 29-35.	7.2	17
34	Photochemical removal of acetaldehyde using 172Ânm vacuum ultraviolet excimer lamp in N2 or air at atmospheric pressure. Environmental Science and Pollution Research, 2019, 26, 11314-11325.	5.3	3
35	Clean Synthesis of 5-Hydroxymethylfurfural and Levulinic Acid by Aqueous Phase Conversion of Levoglucosenone over Solid Acid Catalysts. ACS Sustainable Chemistry and Engineering, 2019, 7, 5892-5899.	6.7	34
36	Production of High-strength Cokes from Non-/Slightly Caking Coals. Part I: Effects of Coal Pretreatment and Variables for Briquetting and Carbonization on Coke Properties. ISIJ International, 2019, 59, 1440-1448.	1.4	8

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37	Quantitative Analyses of Chemical Structural Change and Gas Generation Profile of Coal upon Heating toward Gaining New Insights for Coal Pyrolysis Chemistry. ISIJ International, 2019, 59, 1376-1381.	1.4	3
38	Continuous monitoring of char surface activity toward benzene. Carbon Resources Conversion, 2019, 2, 43-50.	5.9	9
39	Effect of SiO2 on loss of catalysis of inherent metallic species in CO2 gasification of coke from lignite. Carbon Resources Conversion, 2019, 2, 13-22.	5.9	15
40	Production of High-strength Cokes from Non- and Slightly Caking Coals. Part II: Application of Sequence of Fine Pulverization of Coal, Briquetting and Carbonization to Single Coals and Binary Blends. ISIJ International, 2019, 59, 1449-1456.	1.4	7
41	Enhanced Photocatalytic Degradation of Methyl Orange by Au/TiO₂ Nanoparticles under Neutral and Acidic Solutions. ChemistrySelect, 2018, 3, 1432-1438.	1.5	15
42	Computational Study on the Thermal Decomposition of Phenolâ€Type Monolignols. International Journal of Chemical Kinetics, 2018, 50, 304-316.	1.6	8
43	Investigation on the Occurrences and Interactions of Corrosive Species during Pyrolysis of Zhundong Coal Using SSNMR and HT-XRD. Energy & Fuels, 2018, 32, 5062-5071.	5.1	6
44	Synthesis of Flowerâ€Like AuPd@SiO₂ Nanoparticles with a Broad Light Extinction for Application to Efficient Dyeâ€Sensitized Solar Cells. Particle and Particle Systems Characterization, 2018, 35, 1700396.	2.3	7
45	Efficient removal of benzene in air at atmospheric pressure using a side-on type 172Ânm Xe2 excimer lamp. Environmental Science and Pollution Research, 2018, 25, 18980-18989.	5.3	7
46	Theoretical Study on Elementary Reaction Steps in Thermal Decomposition Processes of Syringol-Type Monolignol Compounds. Journal of Physical Chemistry A, 2018, 122, 822-831.	2.5	5
47	CO₂ Gasification of Sugar Cane Bagasse: Quantitative Understanding of Kinetics and Catalytic Roles of Inherent Metallic Species. Energy & Fuels, 2018, 32, 4255-4268.	5.1	18
48	Transient three-dimensional simulation of densification process of carbon fibre preforms via chemical vapour infiltration of carbon matrix from methane. Chemical Engineering Science, 2018, 176, 107-115.	3.8	7
49	Characteristic Properties of Lignite To Be Converted to High-Strength Coke by Hot Briquetting and Carbonization. Energy & Fuels, 2018, 32, 4364-4371.	5.1	14
50	Predicting molecular composition of primary product derived from fast pyrolysis of lignin with semi-detailed kinetic model. Fuel, 2018, 212, 515-522.	6.4	23
51	Nanomaterials as Catalysts. , 2018, , 45-82.		15
52	An Overview of Metal Oxide Nanostructures. , 2018, , 19-57.		45
53	Nano-sized nickel catalyst for deep hydrogenation of lignin monomers and first-principles insight into the catalyst preparation. Journal of Materials Chemistry A, 2017, 5, 3948-3965.	10.3	29
54	Theoretical Study on Reaction Pathways Leading to CO and CO₂ in the Pyrolysis of Resorcinol. Journal of Physical Chemistry A, 2017, 121, 631-637.	2.5	11

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55	Catalytic hydrogenolysis of kraft lignin to monomers at high yield in alkaline water. Green Chemistry, 2017, 19, 2636-2645.	9.0	49
56	Theoretical Study on Hydrogenolytic Cleavage of Intermonomer Linkages in Lignin. Journal of Physical Chemistry A, 2017, 121, 2868-2877.	2.5	10
57	A review on methane transformation to hydrogen and nanocarbon: Relevance of catalyst characteristics and experimental parameters on yield. Renewable and Sustainable Energy Reviews, 2017, 76, 743-767.	16.4	79
58	An approach for on-line analysis of multi-component volatiles from coal pyrolysis with Li + -attachment ionization mass spectrometry. Fuel Processing Technology, 2017, 158, 141-145.	7.2	2
59	Production of Levoglucosenone and Dihydrolevoglucosenone by Catalytic Reforming of Volatiles from Cellulose Pyrolysis Using Supported Ionic Liquid Phase. ACS Sustainable Chemistry and Engineering, 2017, 5, 1132-1140.	6.7	78
60	Synthesis of Carbonâ€Supported Ptâ€“YO_x and PtY Nanoparticles with High Catalytic Activity for the Oxygen Reduction Reaction Using a Microwaveâ€based Polyol Method. ChemCatChem, 2017, 9, 962-970.	3.7	18
61	Theoretical Study on the Kinetics of Thermal Decomposition of Guaiacol and Catechol. Journal of Physical Chemistry A, 2017, 121, 8495-8503.	2.5	14
62	Governance of the porosity and of the methane decomposition activity sustainability of NiO/SiO2 nanocatalysts by changing the synthesis parameters in the modified StÃ¶ber method. Comptes Rendus Chimie, 2017, 20, 896-909.	0.5	12
63	Synthesis and Electrochemical Properties of Fe₃C-carbon Composite as an Anode Material for Lithium-ion Batteries. Electrochemistry, 2017, 85, 630-633.	1.4	10
64	Toward Low-Temperature Coal Gasification: Experimental and Numerical Studies of Thermochemical Coal Conversion Considering the Interactions between Volatiles and Char Particles. KONA Powder and Particle Journal, 2017, 34, 70-79.	1.7	3
65	Recent application of calculations of metal complexes based on density functional theory. RSC Advances, 2016, 6, 77375-77395.	3.6	47
66	Interactions between Volatiles and Char during Pyrolysis of Biomass: Reactive Species Determining and Reaction over Functionalized Carbon Nanotubes. Energy & Fuels, 2016, 30, 5758-5765.	5.1	18
67	Experimental investigation of thermal decomposition of dihydroxybenzene isomers: Catechol, hydroquinone, and resorcinol. Journal of Analytical and Applied Pyrolysis, 2016, 120, 321-329.	5.5	19
68	Steamâ€“Oxygen Gasification of Potassium-Loaded Lignite: Proof of Concept of Type IV Gasification. Energy & Fuels, 2016, 30, 1616-1627.	5.1	15
69	Kinetics and Mechanism of CO₂ Gasification of Chars from 11 Mongolian Lignites. Energy & Fuels, 2016, 30, 1636-1646.	5.1	15
70	Numerical Study on the Steam Reforming of Biomass Tar Using a Detailed Chemical Kinetic Model. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2015, 94, 794-804.	0.2	4
71	Modification of Reactivity and Strength of Formed Coke from Victorian Lignite by Leaching of Metallic Species. ISIJ International, 2015, 55, 765-774.	1.4	17
72	In-situ reforming of the volatiles from fast pyrolysis of ligno-cellulosic biomass over zeolite catalysts for aromatic compound production. Fuel Processing Technology, 2015, 136, 73-78.	7.2	25

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73	Predicting the temperature and reactant concentration profiles of reacting flow in the partial oxidation of hot coke oven gas using detailed chemistry and a one-dimensional flow model. Chemical Engineering Journal, 2015, 266, 82-90.	12.7	18
74	Modeling of gas/particle flow in coal conversion with a drop tube reactor using a lumped kinetic model accounting volatilesâ€“char interaction. Fuel Processing Technology, 2015, 138, 588-594.	7.2	9
75	Detailed Chemical Kinetic Modeling of Vapor-Phase Reactions of Volatiles Derived from Fast Pyrolysis of Lignin. Industrial & Engineering Chemistry Research, 2015, 54, 6855-6864.	3.7	50
76	Kinetic modeling of non-catalytic partial oxidation of nascent volatiles derived from fast pyrolysis of woody biomass with detailed chemistry. Fuel Processing Technology, 2015, 134, 159-167.	7.2	13
77	A CFD study on the reacting flow of partially combusting hot coke oven gas in a bench-scale reformer. Fuel, 2015, 159, 590-598.	6.4	12
78	Preparation of Coke from Hydrothermally Treated Biomass in Sequence of Hot Briquetting and Carbonization. ISIJ International, 2014, 54, 2461-2469.	1.4	18
79	Chemical Structures and Primary Pyrolysis Characteristics of Lignins Obtained from Different Preparation Methods. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2014, 93, 986-994.	0.2	8
80	Pyrolysis of Lignite with Internal Recycling and Conversion of Oil. Energy & Fuels, 2014, 28, 7285-7293.	5.1	14
81	Kinetics and Mechanism of Steam Gasification of Char from Hydrothermally Treated Woody Biomass. Energy & Fuels, 2014, 28, 7133-7139.	5.1	35
82	Hydrodynamic behavior of binary mixture of solids in a triple-bed combined circulating fluidized bed with high mass flux. Advanced Powder Technology, 2014, 25, 379-388.	4.1	23
83	Low-Temperature Gasification of Biomass and Lignite: Consideration of Key Thermochemical Phenomena, Rearrangement of Reactions, and Reactor Configuration. Energy & Fuels, 2014, 28, 4-21.	5.1	51
84	Catalytic Hydrothermal Reforming of Lignin in Aqueous Alkaline Medium. Energy & Fuels, 2014, 28, 76-85.	5.1	20
85	Adsorption and Desorption Behavior of Asphaltene on Polymer-Brush-Immobilized Surfaces. ACS Applied Materials & Interfaces, 2014, 6, 20385-20389.	8.0	38
86	Leaching of Alkali and Alkaline Earth Metallic Species from Rice Husk with Bio-oil from Its Pyrolysis. Energy & Fuels, 2014, 28, 6459-6466.	5.1	42
87	Sequential Pyrolysis and Potassium-Catalyzed Steamâ€“Oxygen Gasification of Woody Biomass in a Continuous Two-Stage Reactor. Energy & Fuels, 2014, 28, 6407-6418.	5.1	10
88	A mechanistic study on the reaction pathways leading to benzene and naphthalene in cellulose vapor phase cracking. Biomass and Bioenergy, 2014, 69, 144-154.	5.7	37
89	Examination of Kinetics of Non-catalytic Steam Gasification of Biomass/Lignite Chars and Its Relationship with the Variation of the Pore Structure. Energy & Fuels, 2014, 28, 5902-5908.	5.1	21
90	Contribution of dehydration and depolymerization reactions during the fast pyrolysis of various salt-loaded celluloses at low temperatures. Fuel, 2014, 136, 62-68.	6.4	56

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91	Preparation and Steam Gasification of Fe-Ion Exchanged Lignite Prepared with Iron Metal, Water, and Pressurized CO₂. Energy & Fuels, 2014, 28, 5623-5631.	5.1	9
92	Deep hydrogenation of coal tar over a Ni/ZSM-5 catalyst. RSC Advances, 2014, 4, 17105.	3.6	45
93	Thermal dissolution of Shengli lignite in ethyl acetate. International Journal of Oil, Gas and Coal Technology, 2014, 7, 308.	0.2	7
94	Catalytic Hydrothermal Reforming of Jatropha Oil in Subcritical Water for the Production of Green Fuels: Characteristics of Reactions over Pt and Ni Catalysts. Energy & Fuels, 2013, 27, 4796-4803.	5.1	18
95	A Highly Active Ni/ZSMâ€5 Catalyst for Complete Hydrogenation of Polymethylbenzenes. ChemCatChem, 2013, 5, 3543-3547.	3.7	45
96	Characterisation of coal and biomass based on kinetic parameter distributions for pyrolysis. Fuel, 2013, 114, 206-215.	6.4	47
97	Detailed Kinetic Analysis and Modeling of Steam Gasification of Char from Ca-Loaded Lignite. Energy & Fuels, 2013, 27, 6617-6631.	5.1	23
98	Promoting gas production by controlling the interaction of volatiles with char during coal gasification in a circulating fluidized bed gasification reactor. Fuel Processing Technology, 2013, 116, 308-316.	7.2	31
99	Catalytic effects of Na and Ca from inexpensive materials on in-situ steam gasification of char from rapid pyrolysis of low rank coal in a drop-tube reactor. Fuel Processing Technology, 2013, 113, 1-7.	7.2	76
100	Rapid pyrolysis of brown coal in a drop-tube reactor with co-feeding of char as a promoter of in situ tar reforming. Fuel, 2013, 112, 681-686.	6.4	58
101	Detailed Analysis of Residual Volatiles in Chars from the Pyrolysis of Biomass and Lignite. Energy & Fuels, 2013, 27, 3209-3223.	5.1	21
102	Production of ketones from pyroligneous acid of woody biomass pyrolysis over an iron-oxide catalyst. Fuel, 2013, 103, 130-134.	6.4	68
103	Coproduction of clean syngas and iron from woody biomass and natural goethite ore. Fuel, 2013, 103, 64-72.	6.4	23
104	Preparation of Coke from Indonesian Lignites by a Sequence of Hydrothermal Treatment, Hot Briquetting, and Carbonization. Energy & Fuels, 2013, 27, 6607-6616.	5.1	31
105	Conversion Characteristics of Aromatic Hydrocarbons in Simulated Gaseous Atmospheres in Reducing Section of Two-Stage Entrained-Flow Coal Gasifier in Air- and O₂/CO₂-Blown Modes. Energy & Fuels, 2013, 27, 1974-1981.	5.1	9
106	Estimation of Enthalpy of Bio-Oil Vapor and Heat Required for Pyrolysis of Biomass. Energy & Fuels, 2013, 27, 2675-2686.	5.1	82
107	Simultaneous Maximization of the Char Yield and Volatility of Oil from Biomass Pyrolysis. Energy & Fuels, 2013, 27, 247-254.	5.1	38
108	Detailed chemical kinetic modelling of vapour-phase cracking of multi-component molecular mixtures derived from the fast pyrolysis of cellulose. Fuel, 2013, 103, 141-150.	6.4	68

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109	Sulfonate Ionic Liquid as a Stable and Active Catalyst for Levoglucosenone Production from Saccharides via Catalytic Pyrolysis. Catalysts, 2013, 3, 757-773.	3.5	34
110	Process Development toward Efficient Charcoal Production from Biomass Using Moving Bed Pyrolyzer. Journal of the Society of Powder Technology, Japan, 2013, 50, 173-181.	0.1	1
111	Catalytic Hydrothermal Reforming of Water-Soluble Organics from the Pyrolysis of Biomass Using a Ni/Carbon Catalyst Impregnated with Pt. Energy & Fuels, 2012, 26, 67-74.	5.1	15
112	Preparation of High-Strength Coke by Carbonization of Hot-Briquetted Victorian Brown Coal. Energy & Fuels, 2012, 26, 296-301.	5.1	30
113	Simultaneous Steam Reforming of Tar and Steam Gasification of Char from the Pyrolysis of Potassium-Loaded Woody Biomass. Energy & Fuels, 2012, 26, 199-208.	5.1	77
114	Selective Production of Light Oil by Biomass Pyrolysis with Feedstock-Mediated Recycling of Heavy Oil. Energy & Fuels, 2012, 26, 256-264.	5.1	27
115	Reforming of Volatiles from the Biomass Pyrolysis over Charcoal in a Sequence of Coke Deposition and Steam Gasification of Coke. Energy & Fuels, 2011, 25, 5387-5393.	5.1	77
116	Efficient levoglucosenone production by catalytic pyrolysis of cellulose mixed with ionic liquid. Green Chemistry, 2011, 13, 3306.	9.0	77
117	Numerical simulation of thermal conversion of aromatic hydrocarbons in the presence of hydrogen and steam using a detailed chemical kinetic model. Chemical Engineering Journal, 2011, 178, 282-290.	12.7	31
118	A mechanistic study on kinetic compensation effect during low-temperature oxidation of coal chars. Proceedings of the Combustion Institute, 2011, 33, 1755-1762.	3.9	60
119	Volatilisation and catalytic effects of alkali and alkaline earth metallic species during the pyrolysis and gasification of Victorian brown coal. Part IX. Effects of volatile-char interactions on charâ€“H2O and charâ€“O2 reactivities. Fuel, 2011, 90, 1655-1661.	6.4	77
120	Production of chemicals by cracking pyrolytic tar from Loy Yang coal over iron oxide catalysts in a steam atmosphere. Fuel Processing Technology, 2011, 92, 771-775.	7.2	53
121	Formation of NOx precursors during the pyrolysis of coal and biomass. Part X: Effects of volatileâ€“char interactions on the conversion of coal-N during the gasification of a Victorian brown coal in O2 and steam at 800Â°C. Fuel, 2010, 89, 1035-1040.	6.4	15
122	Catalytic and Noncatalytic Mechanisms in Steam Gasification of Char from the Pyrolysis of Biomass^{â€}. Energy & Fuels, 2010, 24, 108-116.	5.1	126
123	Characteristics of Gas-Phase Partial Oxidation of Nascent Tar from the Rapid Pyrolysis of Cedar Sawdust at 700â˜800 Â°C. Energy & Fuels, 2010, 24, 2900-2909.	5.1	21
124	In-Situ Reforming of Tar from the Rapid Pyrolysis of a Brown Coal over Char^{â€}. Energy & Fuels, 2010, 24, 76-83.	5.1	74
125	Effect of Alkali and Alkaline Earth Metallic Species on Biochar Reactivity and Syngas Compositions during Steam Gasification^{â€}. Energy & Fuels, 2010, 24, 173-181.	5.1	203
126	A reduced mechanism for primary reactions of coal volatiles in a plug flow reactor. Combustion Theory and Modelling, 2010, 14, 841-853.	1.9	23

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127	Numerical Simulation of the Partial Oxidation of Hot Coke Oven Gas with a Detailed Chemical Kinetic Model^{â€}. Energy & Fuels, 2010, 24, 165-172.	5.1	22
128	Application of an Existing Detailed Chemical Kinetic Model to a Practical System of Hot Coke Oven Gas Reforming by Noncatalytic Partial Oxidation. Industrial & Engineering Chemistry Research, 2010, 49, 10565-10571.	3.7	26
129	Numerical Simulation of Secondary Gas Phase Reactions of Coffee Grounds with a Detailed Chemical Kinetic Model. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2010, 89, 955-961.	0.2	6
130	Catalytic Partial Oxidation of Nascent Volatiles from Rapid Pyrolysis of Woody Biomass by Using Noble Metal Supported Alumina Foam. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2009, 88, 894-899.	0.2	0
131	Analysis of pyrolysis products from light hydrocarbons and kinetic modeling for growth of polycyclic aromatic hydrocarbons with detailed chemistry. Journal of Analytical and Applied Pyrolysis, 2009, 86, 148-160.	5.5	91
132	Rapid Gasification of Nascent Char in Steam Atmosphere during the Pyrolysis of Na- and Ca-Ion-Exchanged Brown Coals in a Drop-Tube Reactor. Energy & Fuels, 2009, 23, 4496-4501.	5.1	18
133	Biotar Ironmaking Using Wooden Biomass and Nanoporous Iron Ore. Energy & Fuels, 2009, 23, 1128-1131.	5.1	55
134	Cracking and Coking Behaviors of Nascent Volatiles Derived from Flash Pyrolysis of Woody Biomass over Mesoporous Fluidized-Bed Material. Industrial & Engineering Chemistry Research, 2009, 48, 2851-2860.	3.7	27
135	A study on pyrolytic gasification of coffee grounds and implications to allothermal gasification. Biomass and Bioenergy, 2008, 32, 78-89.	5.7	30
136	Effects of volatileâ€“char interactions on the volatilisation of alkali and alkaline earth metallic species during the pyrolysis of biomass. Fuel, 2008, 87, 1187-1194.	6.4	106
137	Drastic changes in biomass char structure and reactivity upon contact with steam. Fuel, 2008, 87, 1127-1132.	6.4	127
138	Mechanism of decomposition of aromatics over charcoal and necessary condition for maintaining its activity. Fuel, 2008, 87, 2914-2922.	6.4	134
139	Evolution of biomass char structure during oxidation in O2 as revealed with FT-Raman spectroscopy. Fuel Processing Technology, 2008, 89, 1429-1435.	7.2	89
140	Activity of Mesoporous Alumina Particles for Biomass Steam Reforming in a Fluidized-Bed Reactor and Its Application to a Dual-Gas-Flow Two-Stage Reactor System. Industrial & Engineering Chemistry Research, 2008, 47, 5346-5352.	3.7	16
141	Recovery of Useful Chemicals from Paper Sludge-Derived Tar by Catalytic Partial Oxidization over Zirconia-Supporting Iron Oxide Catalysts in Steam Atmosphere. Journal of Chemical Engineering of Japan, 2008, 41, 369-373.	0.6	4
142	Effects of Dewatering on the Pyrolysis and Gasification Reactivity of Victorian Brown Coalâ€. Energy & Fuels, 2007, 21, 399-404.	5.1	24
143	Characterization of the Structural Features of Char from the Pyrolysis of Cane Trash Using Fourier Transformâ^'Raman Spectroscopy. Energy & Fuels, 2007, 21, 1816-1821.	5.1	106
144	Changes in Viscosity of Single Coals and Their Blends upon Heatingâ€. Energy & Fuels, 2007, 21, 405-412.	5.1	2

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145	Behavior of Inherent Metallic Species as a Crucial Factor for Kinetics of Steam Gasification of Char from Coal Pyrolysisâ€. Energy & Fuels, 2007, 21, 387-394.	5.1	42
146	Conversion of Fuel-N into HCN and NH3During the Pyrolysis and Gasification in Steam:Â A Comparative Study of Coal and Biomassâ€. Energy & Fuels, 2007, 21, 517-521.	5.1	132
147	Examination of catalytic roles of inherent metallic species in steam reforming of nascent volatiles from the rapid pyrolysis of a brown coal. Fuel Processing Technology, 2007, 88, 179-185.	7.2	32
148	Interparticle Desorption and Re-adsorption of Alkali and Alkaline Earth Metallic Species within a Bed of Pyrolyzing Char from Pulverized Woody Biomass. Energy & Fuels, 2006, 20, 1294-1297.	5.1	38
149	Effects of Pretreatment in Steam on the Pyrolysis Behavior of Loy Yang Brown Coal. Energy & Fuels, 2006, 20, 281-286.	5.1	41
150	Formation of HCN and NH3during the Reforming of Quinoline with Steam in a Fluidized-bed Reactor. Energy & Fuels, 2006, 20, 159-163.	5.1	12
151	Synthesis of carbon nanotubes on carbon fibers by means of two-step thermochemical vapor deposition. Carbon, 2006, 44, 1754-1761.	10.3	50
152	Inhibition of steam gasification of char by volatiles in a fluidized bed under continuous feeding of a brown coal. Fuel, 2006, 85, 340-349.	6.4	105
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