

# Jun-ichiro Hayashi

## List of Publications by Year in descending order

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239  
papers

9,370  
citations

36203

51  
h-index

54797

84  
g-index

245  
all docs

245  
docs citations

245  
times ranked

5973  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dissolution of Iron Oxides Highly Loaded in Oxalic Acid Aqueous Solution for a Potential Application in Iron-Making. <i>ISIJ International</i> , 2022, 62, 2466-2475.	0.6	6
2	Catalytic deep eutectic solvent for levoglucosenone production by pyrolysis of cellulose. <i>Bioresource Technology</i> , 2022, 344, 126323.	4.8	10
3	Treatment of wastewater from biomass pyrolysis and recovery of its organic compounds with char-assisted drying. <i>Fuel</i> , 2022, 312, 122825.	3.4	0
4	Hot-Compressed Water Treatment and Subsequent Binderless Hot Pressing for High-Strength Plate Preparation from Rice Husk. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 1932-1942.	3.2	3
5	The Antioxidant Activity of the Extracts from Disposition of the Waste Sawdust Substrate from Shiitake Mushroom ( <i>Lentinula edodes</i> ) Cultivation by the Two-step Hot/hot-compressed Water Percolation. <i>Mokuzai Gakkai Shi</i> , 2022, 68, 26-35.	0.2	0
6	Various acids functionalized polyaniline-peanut shell activated carbon composites for dye removal. <i>Journal of Material Cycles and Waste Management</i> , 2022, 24, 1508-1523.	1.6	10
7	Staged Pyrolytic Conversion of Acid-Loaded Woody Biomass for Production of High-Strength Coke and Valorization of Volatiles. <i>Energy &amp; Fuels</i> , 2022, 36, 6949-6958.	2.5	7
8	Improvement of levoglucosenone selectivity in liquid phase conversion of cellulose-derived anhydrosugar over solid acid catalysts. <i>Fuel Processing Technology</i> , 2021, 212, 106625.	3.7	18
9	Formation of <i>p</i> -Unsubstituted Phenols in Base-catalyzed Lignin Depolymerization. <i>MATEC Web of Conferences</i> , 2021, 333, 05006.	0.1	2
10	Analysis of Primary Reactions in Biomass Oxidation with O <sub>2</sub> in Hot-Compressed Alkaline Water. <i>ACS Omega</i> , 2021, 6, 4236-4246.	1.6	1
11	Impact of heating rates on the evolution of function groups of the biochar from lignin pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 155, 105031.	2.6	56
12	Catalytic Strategies for Levoglucosenone Production by Pyrolysis of Cellulose and Lignocellulosic Biomass. <i>Energy &amp; Fuels</i> , 2021, 35, 9809-9824.	2.5	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. <i>Journal of Chemical Engineering of Japan</i> , 2021, 54, 334-343.	0.3	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. <i>Energy &amp; Fuels</i> , 2021, 35, 12237-12251.	2.5	6
15	Review on the catalytic tri-reforming of methane - Part II: Catalyst development. <i>Applied Catalysis A: General</i> , 2021, 623, 118286.	2.2	40
16	Fast Synthesis of Hydroxymethylfurfural from Levoglucosenone by Mixing with Sulphuric Acid and Heating in a Microtube Reactor. <i>MATEC Web of Conferences</i> , 2021, 333, 05005.	0.1	2
17	Influence of ionic liquid type on porous carbon formation during the ionothermal pyrolysis of cellulose. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020, 145, 104728.	2.6	19
18	Change in Catalytic Activity of Potassium during CO <sub>2</sub> Gasification of Char. <i>Energy &amp; Fuels</i> , 2020, 34, 225-234.	2.5	7

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19	Segregation of char and silica sand particles in a hot-fluidized-bed steam gasifier. <i>Advanced Powder Technology</i> , 2020, 31, 867-874.	2.0	3
20	Analytical Procedure for Proximate Analysis of Algal Biomass: Case Study for <i>Spirulina platensis</i> and <i>Chlorella vulgaris</i> . <i>Energy &amp; Fuels</i> , 2020, 34, 474-482.	2.5	19
21	Microwave-assisted dry reforming of methane for syngas production: a review. <i>Environmental Chemistry Letters</i> , 2020, 18, 1987-2019.	8.3	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. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 13292-13301.	3.2	19
23	Selective Production of Phenolic Monomers and Biochar by Pyrolysis of Lignin with Internal Recycling of Heavy Oil. <i>Energy &amp; Fuels</i> , 2020, 34, 7183-7189.	2.5	8
24	Sequential conversion of lignite in alkaline water by oxidative degradation, dissolution and catalytic gasification. <i>Fuel</i> , 2020, 278, 118329.	3.4	3
25	Methane decomposition with a minimal catalyst: An optimization study with response surface methodology over Ni/SiO <sub>2</sub> nanocatalyst. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 14383-14395.	3.8	21
26	Selective Hydrodeoxygenation of Î³-Valerolactone over Silica-supported Rh-based Bimetallic Catalysts. <i>Energy &amp; Fuels</i> , 2020, 34, 7190-7197.	2.5	11
27	Deep Delignification of Woody Biomass by Repeated Mild Alkaline Treatments with Pressurized O <sub>2</sub> . <i>ACS Omega</i> , 2020, 5, 29168-29176.	1.6	8
28	The Distinctive Effects of Glucose-Derived Carbon on the Performance of Ni-Based Catalysts in Methane Dry Reforming. <i>Catalysts</i> , 2020, 10, 21.	1.6	5
29	Improvement of Pelletability of Woody Biomass by Torrefaction under Pressurized Steam. <i>Energy &amp; Fuels</i> , 2019, 33, 11253-11262.	2.5	26
30	Re-examination of Thermogravimetric Kinetic Analysis of Lignite Char Gasification. <i>Energy &amp; Fuels</i> , 2019, 33, 10913-10922.	2.5	4
31	Biochar-Assisted Water Electrolysis. <i>Energy &amp; Fuels</i> , 2019, 33, 11246-11252.	2.5	24
32	Quantitative Description of Catalysis of Inherent Metallic Species in Lignite Char during CO <sub>2</sub> Gasification. <i>Energy &amp; Fuels</i> , 2019, 33, 5996-6007.	2.5	6
33	Two-step conversion of cellulose to levoglucosenone using updraft fixed bed pyrolyzer and catalytic reformer. <i>Fuel Processing Technology</i> , 2019, 191, 29-35.	3.7	17
34	Photochemical removal of acetaldehyde using 172Ånm vacuum ultraviolet excimer lamp in N <sub>2</sub> or air at atmospheric pressure. <i>Environmental Science and Pollution Research</i> , 2019, 26, 11314-11325.	2.7	3
35	Clean Synthesis of 5-Hydroxymethylfurfural and Levulinic Acid by Aqueous Phase Conversion of Levoglucosenone over Solid Acid Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 5892-5899.	3.2	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. <i>ISIJ International</i> , 2019, 59, 1440-1448.	0.6	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.	0.6	3
38	Continuous monitoring of char surface activity toward benzene. Carbon Resources Conversion, 2019, 2, 43-50.	3.2	9
39	Effect of SiO <sub>2</sub> on loss of catalysis of inherent metallic species in CO <sub>2</sub> gasification of coke from lignite. Carbon Resources Conversion, 2019, 2, 13-22.	3.2	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.	0.6	7
41	Enhanced Photocatalytic Degradation of Methyl Orange by Au/TiO <sub>2</sub> Nanoparticles under Neutral and Acidic Solutions. ChemistrySelect, 2018, 3, 1432-1438.	0.7	15
42	Computational Study on the Thermal Decomposition of Phenol-type Monolignols. International Journal of Chemical Kinetics, 2018, 50, 304-316.	1.0	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.	2.5	6
44	Synthesis of Flower-like AuPd@SiO <sub>2</sub> Nanoparticles with a Broad Light Extinction for Application to Efficient Dye-sensitized Solar Cells. Particle and Particle Systems Characterization, 2018, 35, 1700396.	1.2	7
45	Efficient removal of benzene in air at atmospheric pressure using a side-on type 172-nm Xe <sub>2</sub> excimer lamp. Environmental Science and Pollution Research, 2018, 25, 18980-18989.	2.7	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.	1.1	5
47	CO <sub>2</sub> Gasification of Sugar Cane Bagasse: Quantitative Understanding of Kinetics and Catalytic Roles of Inherent Metallic Species. Energy & Fuels, 2018, 32, 4255-4268.	2.5	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.	1.9	7
49	Characteristic Properties of Lignite To Be Converted to High-Strength Coke by Hot Briquetting and Carbonization. Energy & Fuels, 2018, 32, 4364-4371.	2.5	14
50	Predicting molecular composition of primary product derived from fast pyrolysis of lignin with semi-detailed kinetic model. Fuel, 2018, 212, 515-522.	3.4	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.	5.2	29
54	Theoretical Study on Reaction Pathways Leading to CO and CO <sub>2</sub> in the Pyrolysis of Resorcinol. Journal of Physical Chemistry A, 2017, 121, 631-637.	1.1	11

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55	Catalytic hydrogenolysis of kraft lignin to monomers at high yield in alkaline water. <i>Green Chemistry</i> , 2017, 19, 2636-2645.	4.6	49
56	Theoretical Study on Hydrogenolytic Cleavage of Intermonomer Linkages in Lignin. <i>Journal of Physical Chemistry A</i> , 2017, 121, 2868-2877.	1.1	10
57	A review on methane transformation to hydrogen and nanocarbon: Relevance of catalyst characteristics and experimental parameters on yield. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 76, 743-767.	8.2	79
58	An approach for on-line analysis of multi-component volatiles from coal pyrolysis with Li <sup>+</sup> -attachment ionization mass spectrometry. <i>Fuel Processing Technology</i> , 2017, 158, 141-145.	3.7	2
59	Production of Levoglucosenone and Dihydrolevoglucosenone by Catalytic Reforming of Volatiles from Cellulose Pyrolysis Using Supported Ionic Liquid Phase. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 1132-1140.	3.2	78
60	Synthesis of Carbon-Supported Pt <sub>x</sub> and PtY Nanoparticles with High Catalytic Activity for the Oxygen Reduction Reaction Using a Microwave-based Polyol Method. <i>ChemCatChem</i> , 2017, 9, 962-970.	1.8	18
61	Theoretical Study on the Kinetics of Thermal Decomposition of Guaiacol and Catechol. <i>Journal of Physical Chemistry A</i> , 2017, 121, 8495-8503.	1.1	14
62	Governance of the porosity and of the methane decomposition activity sustainability of NiO/SiO <sub>2</sub> nanocatalysts by changing the synthesis parameters in the modified Stober method. <i>Comptes Rendus Chimie</i> , 2017, 20, 896-909.	0.2	12
63	Synthesis and Electrochemical Properties of Fe <sub>3</sub> C-carbon Composite as an Anode Material for Lithium-ion Batteries. <i>Electrochemistry</i> , 2017, 85, 630-633.	0.6	10
64	Toward Low-Temperature Coal Gasification: Experimental and Numerical Studies of Thermochemical Coal Conversion Considering the Interactions between Volatiles and Char Particles. <i>KONA Powder and Particle Journal</i> , 2017, 34, 70-79.	0.9	3
65	Recent application of calculations of metal complexes based on density functional theory. <i>RSC Advances</i> , 2016, 6, 77375-77395.	1.7	47
66	Interactions between Volatiles and Char during Pyrolysis of Biomass: Reactive Species Determining and Reaction over Functionalized Carbon Nanotubes. <i>Energy &amp; Fuels</i> , 2016, 30, 5758-5765.	2.5	18
67	Experimental investigation of thermal decomposition of dihydroxybenzene isomers: Catechol, hydroquinone, and resorcinol. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 120, 321-329.	2.6	19
68	Steam-Oxygen Gasification of Potassium-Loaded Lignite: Proof of Concept of Type IV Gasification. <i>Energy &amp; Fuels</i> , 2016, 30, 1616-1627.	2.5	15
69	Kinetics and Mechanism of CO <sub>2</sub> Gasification of Chars from 11 Mongolian Lignites. <i>Energy &amp; Fuels</i> , 2016, 30, 1636-1646.	2.5	15
70	Numerical Study on the Steam Reforming of Biomass Tar Using a Detailed Chemical Kinetic Model. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2015, 94, 794-804.	0.2	4
71	Modification of Reactivity and Strength of Formed Coke from Victorian Lignite by Leaching of Metallic Species. <i>ISIJ International</i> , 2015, 55, 765-774.	0.6	17
72	In-situ reforming of the volatiles from fast pyrolysis of ligno-cellulosic biomass over zeolite catalysts for aromatic compound production. <i>Fuel Processing Technology</i> , 2015, 136, 73-78.	3.7	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. <i>Chemical Engineering Journal</i> , 2015, 266, 82-90.	6.6	18
74	Modeling of gas/particle flow in coal conversion with a drop tube reactor using a lumped kinetic model accounting volatilesâ€char interaction. <i>Fuel Processing Technology</i> , 2015, 138, 588-594.	3.7	9
75	Detailed Chemical Kinetic Modeling of Vapor-Phase Reactions of Volatiles Derived from Fast Pyrolysis of Lignin. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 6855-6864.	1.8	50
76	Kinetic modeling of non-catalytic partial oxidation of nascent volatiles derived from fast pyrolysis of woody biomass with detailed chemistry. <i>Fuel Processing Technology</i> , 2015, 134, 159-167.	3.7	13
77	A CFD study on the reacting flow of partially combusting hot coke oven gas in a bench-scale reformer. <i>Fuel</i> , 2015, 159, 590-598.	3.4	12
78	Preparation of Coke from Hydrothermally Treated Biomass in Sequence of Hot Briquetting and Carbonization. <i>ISIJ International</i> , 2014, 54, 2461-2469.	0.6	18
79	Chemical Structures and Primary Pyrolysis Characteristics of Lignins Obtained from Different Preparation Methods. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2014, 93, 986-994.	0.2	8
80	Pyrolysis of Lignite with Internal Recycling and Conversion of Oil. <i>Energy &amp; Fuels</i> , 2014, 28, 7285-7293.	2.5	14
81	Kinetics and Mechanism of Steam Gasification of Char from Hydrothermally Treated Woody Biomass. <i>Energy &amp; Fuels</i> , 2014, 28, 7133-7139.	2.5	35
82	Hydrodynamic behavior of binary mixture of solids in a triple-bed combined circulating fluidized bed with high mass flux. <i>Advanced Powder Technology</i> , 2014, 25, 379-388.	2.0	23
83	Low-Temperature Gasification of Biomass and Lignite: Consideration of Key Thermochemical Phenomena, Rearrangement of Reactions, and Reactor Configuration. <i>Energy &amp; Fuels</i> , 2014, 28, 4-21.	2.5	51
84	Catalytic Hydrothermal Reforming of Lignin in Aqueous Alkaline Medium. <i>Energy &amp; Fuels</i> , 2014, 28, 76-85.	2.5	20
85	Adsorption and Desorption Behavior of Asphaltene on Polymer-Brush-Immobilized Surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 20385-20389.	4.0	38
86	Leaching of Alkali and Alkaline Earth Metallic Species from Rice Husk with Bio-oil from Its Pyrolysis. <i>Energy &amp; Fuels</i> , 2014, 28, 6459-6466.	2.5	42
87	Sequential Pyrolysis and Potassium-Catalyzed Steamâ€Oxygen Gasification of Woody Biomass in a Continuous Two-Stage Reactor. <i>Energy &amp; Fuels</i> , 2014, 28, 6407-6418.	2.5	10
88	A mechanistic study on the reaction pathways leading to benzene and naphthalene in cellulose vapor phase cracking. <i>Biomass and Bioenergy</i> , 2014, 69, 144-154.	2.9	37
89	Examination of Kinetics of Non-catalytic Steam Gasification of Biomass/Lignite Chars and Its Relationship with the Variation of the Pore Structure. <i>Energy &amp; Fuels</i> , 2014, 28, 5902-5908.	2.5	21
90	Contribution of dehydration and depolymerization reactions during the fast pyrolysis of various salt-loaded celluloses at low temperatures. <i>Fuel</i> , 2014, 136, 62-68.	3.4	56

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91	Preparation and Steam Gasification of Fe-Ion Exchanged Lignite Prepared with Iron Metal, Water, and Pressurized CO <sub>2</sub> . Energy & Fuels, 2014, 28, 5623-5631.	2.5	9
92	Deep hydrogenation of coal tar over a Ni/ZSM-5 catalyst. RSC Advances, 2014, 4, 17105.	1.7	45
93	Thermal dissolution of Shengli lignite in ethyl acetate. International Journal of Oil, Gas and Coal Technology, 2014, 7, 308.	0.1	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.	2.5	18
95	A Highly Active Ni/ZSM-5 Catalyst for Complete Hydrogenation of Polymethylbenzenes. ChemCatChem, 2013, 5, 3543-3547.	1.8	45
96	Characterisation of coal and biomass based on kinetic parameter distributions for pyrolysis. Fuel, 2013, 114, 206-215.	3.4	47
97	Detailed Kinetic Analysis and Modeling of Steam Gasification of Char from Ca-Loaded Lignite. Energy & Fuels, 2013, 27, 6617-6631.	2.5	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.	3.7	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.	3.7	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.	3.4	58
101	Detailed Analysis of Residual Volatiles in Chars from the Pyrolysis of Biomass and Lignite. Energy & Fuels, 2013, 27, 3209-3223.	2.5	21
102	Production of ketones from pyrolytic acid of woody biomass pyrolysis over an iron-oxide catalyst. Fuel, 2013, 103, 130-134.	3.4	68
103	Coproduction of clean syngas and iron from woody biomass and natural goethite ore. Fuel, 2013, 103, 64-72.	3.4	23
104	Preparation of Coke from Indonesian Lignites by a Sequence of Hydrothermal Treatment, Hot Briquetting, and Carbonization. Energy & Fuels, 2013, 27, 6607-6616.	2.5	31
105	Conversion Characteristics of Aromatic Hydrocarbons in Simulated Gaseous Atmospheres in Reducing Section of Two-Stage Entrained-Flow Coal Gasifier in Air- and O <sub>2</sub> /CO <sub>2</sub> -Blown Modes. Energy & Fuels, 2013, 27, 1974-1981.	2.5	9
106	Estimation of Enthalpy of Bio-Oil Vapor and Heat Required for Pyrolysis of Biomass. Energy & Fuels, 2013, 27, 2675-2686.	2.5	82
107	Simultaneous Maximization of the Char Yield and Volatility of Oil from Biomass Pyrolysis. Energy & Fuels, 2013, 27, 247-254.	2.5	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.	3.4	68

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109	Sulfonate Ionic Liquid as a Stable and Active Catalyst for Levoglucosenone Production from Saccharides via Catalytic Pyrolysis. <i>Catalysts</i> , 2013, 3, 757-773.	1.6	34
110	Process Development toward Efficient Charcoal Production from Biomass Using Moving Bed Pyrolyzer. <i>Journal of the Society of Powder Technology, Japan</i> , 2013, 50, 173-181.	0.0	1
111	Catalytic Hydrothermal Reforming of Water-Soluble Organics from the Pyrolysis of Biomass Using a Ni/Carbon Catalyst Impregnated with Pt. <i>Energy &amp; Fuels</i> , 2012, 26, 67-74.	2.5	15
112	Preparation of High-Strength Coke by Carbonization of Hot-Briquetted Victorian Brown Coal. <i>Energy &amp; Fuels</i> , 2012, 26, 296-301.	2.5	30
113	Simultaneous Steam Reforming of Tar and Steam Gasification of Char from the Pyrolysis of Potassium-Loaded Woody Biomass. <i>Energy &amp; Fuels</i> , 2012, 26, 199-208.	2.5	77
114	Selective Production of Light Oil by Biomass Pyrolysis with Feedstock-Mediated Recycling of Heavy Oil. <i>Energy &amp; Fuels</i> , 2012, 26, 256-264.	2.5	27
115	Reforming of Volatiles from the Biomass Pyrolysis over Charcoal in a Sequence of Coke Deposition and Steam Gasification of Coke. <i>Energy &amp; Fuels</i> , 2011, 25, 5387-5393.	2.5	77
116	Efficient levoglucosenone production by catalytic pyrolysis of cellulose mixed with ionic liquid. <i>Green Chemistry</i> , 2011, 13, 3306.	4.6	77
117	Numerical simulation of thermal conversion of aromatic hydrocarbons in the presence of hydrogen and steam using a detailed chemical kinetic model. <i>Chemical Engineering Journal</i> , 2011, 178, 282-290.	6.6	31
118	A mechanistic study on kinetic compensation effect during low-temperature oxidation of coal chars. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 1755-1762.	2.4	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 char's H <sub>2</sub> O and char's O <sub>2</sub> reactivities. <i>Fuel</i> , 2011, 90, 1655-1661.	3.4	77
120	Production of chemicals by cracking pyrolytic tar from Loy Yang coal over iron oxide catalysts in a steam atmosphere. <i>Fuel Processing Technology</i> , 2011, 92, 771-775.	3.7	53
121	Formation of NO <sub>x</sub> precursors during the pyrolysis of coal and biomass. Part X: Effects of volatile-char interactions on the conversion of coal-N during the gasification of a Victorian brown coal in O <sub>2</sub> and steam at 800 °C. <i>Fuel</i> , 2010, 89, 1035-1040.	3.4	15
122	Catalytic and Noncatalytic Mechanisms in Steam Gasification of Char from the Pyrolysis of Biomass. <i>Energy &amp; Fuels</i> , 2010, 24, 108-116.	2.5	126
123	Characteristics of Gas-Phase Partial Oxidation of Nascent Tar from the Rapid Pyrolysis of Cedar Sawdust at 700~800 °C. <i>Energy &amp; Fuels</i> , 2010, 24, 2900-2909.	2.5	21
124	In-Situ Reforming of Tar from the Rapid Pyrolysis of a Brown Coal over Char. <i>Energy &amp; Fuels</i> , 2010, 24, 76-83.	2.5	74
125	Effect of Alkali and Alkaline Earth Metallic Species on Biochar Reactivity and Syngas Compositions during Steam Gasification. <i>Energy &amp; Fuels</i> , 2010, 24, 173-181.	2.5	203
126	A reduced mechanism for primary reactions of coal volatiles in a plug flow reactor. <i>Combustion Theory and Modelling</i> , 2010, 14, 841-853.	1.0	23



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127	Numerical Simulation of the Partial Oxidation of Hot Coke Oven Gas with a Detailed Chemical Kinetic Model. <i>Energy &amp; Fuels</i> , 2010, 24, 165-172.	2.5	22
128	Application of an Existing Detailed Chemical Kinetic Model to a Practical System of Hot Coke Oven Gas Reforming by Noncatalytic Partial Oxidation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 10565-10571.	1.8	26
129	Numerical Simulation of Secondary Gas Phase Reactions of Coffee Grounds with a Detailed Chemical Kinetic Model. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 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. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 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. <i>Journal of Analytical and Applied Pyrolysis</i> , 2009, 86, 148-160.	2.6	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. <i>Energy &amp; Fuels</i> , 2009, 23, 4496-4501.	2.5	18
133	Biotar Ironmaking Using Wooden Biomass and Nanoporous Iron Ore. <i>Energy &amp; Fuels</i> , 2009, 23, 1128-1131.	2.5	55
134	Cracking and Coking Behaviors of Nascent Volatiles Derived from Flash Pyrolysis of Woody Biomass over Mesoporous Fluidized-Bed Material. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 2851-2860.	1.8	27
135	A study on pyrolytic gasification of coffee grounds and implications to allothermal gasification. <i>Biomass and Bioenergy</i> , 2008, 32, 78-89.	2.9	30
136	Effects of volatile-char interactions on the volatilisation of alkali and alkaline earth metallic species during the pyrolysis of biomass. <i>Fuel</i> , 2008, 87, 1187-1194.	3.4	106
137	Drastic changes in biomass char structure and reactivity upon contact with steam. <i>Fuel</i> , 2008, 87, 1127-1132.	3.4	127
138	Mechanism of decomposition of aromatics over charcoal and necessary condition for maintaining its activity. <i>Fuel</i> , 2008, 87, 2914-2922.	3.4	134
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