Shinji Kudo

List of Publications by Year in descending order

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Version: 2024-02-01

		279701	3	30025	
98	1,965	23		37	
papers	citations	h-index		g-index	
100	100	100		2089	
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.	0.6	6
2	Catalytic deep eutectic solvent for levoglucosenone production by pyrolysis of cellulose. Bioresource Technology, 2022, 344, 126323.	4.8	10
3	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.	3.2	3
4	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. Mokuzai Gakkai Shi, 2022, 68, 26-35.	0.2	0
5	Staged Pyrolytic Conversion of Acid-Loaded Woody Biomass for Production of High-Strength Coke and Valorization of Volatiles. Energy & Ener	2.5	7
6	Improvement of levoglucosenone selectivity in liquid phase conversion of cellulose-derived anhydrosugar over solid acid catalysts. Fuel Processing Technology, 2021, 212, 106625.	3.7	18
7	Formation of <i>p</i> -Unsubstituted Phenols in Base-catalyzed Lignin Depolymerization. MATEC Web of Conferences, 2021, 333, 05006.	0.1	2
8	Analysis of Primary Reactions in Biomass Oxidation with O ₂ in Hot-Compressed Alkaline Water. ACS Omega, 2021, 6, 4236-4246.	1.6	1
9	Catalytic Strategies for Levoglucosenone Production by Pyrolysis of Cellulose and Lignocellulosic Biomass. Energy & Fuels, 2021, 35, 9809-9824.	2.5	22
10	Leaching Char with Acidic Aqueous Phase from Biomass Pyrolysis: Removal of Alkali and Alkaline-Earth Metallic Species and Uptakes of Water-Soluble Organics. Energy & Energy & 2021, 35, 12237-12251.	2.5	6
11	Fast Synthesis of Hydroxymethylfurfural from Levoglucosenone by Mixing with Sulphuric Acid and Heating in a Microtube Reactor. MATEC Web of Conferences, 2021, 333, 05005.	0.1	2
12	Influence of ionic liquid type on porous carbon formation during the ionothermal pyrolysis of cellulose. Journal of Analytical and Applied Pyrolysis, 2020, 145, 104728.	2.6	19
13	Change in Catalytic Activity of Potassium during CO ₂ Gasification of Char. Energy & Company Study (1988) and Company (1988) and Company (1988) and Company (1988) and Company (1988) are company (1988) and Company (1988) and Company (1988) and Company (1988) are company (1988) and Company (1988) and Company (1988) are company (1988) and Company (1988) and Company (1988) are company (1988) are company (1988) and Company (1988) are company (1988) are company (1988) are company (1988) and Company (1988) are company	2.5	7
14	Selective hydrogenation of levoglucosenone over Pd/C using formic acid as a hydrogen source. Journal of the Energy Institute, 2020, 93, 2505-2510.	2.7	10
15	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.	3.2	19
16	Jiangrine-like scaffolds from biorenewable platforms. Tetrahedron Letters, 2020, 61, 152538.	0.7	6
17	Selective Production of Phenolic Monomers and Biochar by Pyrolysis of Lignin with Internal Recycling of Heavy Oil. Energy & Energy & 2020, 34, 7183-7189.	2.5	8
18	Sequential conversion of lignite in alkaline water by oxidative degradation, dissolution and catalytic gasification. Fuel, 2020, 278, 118329.	3.4	3

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19	Outstanding Reviewers for <i>Green Chemistry</i> in 2019. Green Chemistry, 2020, 22, 2627-2627.	4.6	0
20	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.	3.8	21
21	Selective Hydrodeoxygenation of \hat{I}^3 -Valerolactone over Silica-supported Rh-based Bimetallic Catalysts. Energy & En	2.5	11
22	Deep Delignification of Woody Biomass by Repeated Mild Alkaline Treatments with Pressurized O ₂ . ACS Omega, 2020, 5, 29168-29176.	1.6	8
23	The Distinctive Effects of Glucose-Derived Carbon on the Performance of Ni-Based Catalysts in Methane Dry Reforming. Catalysts, 2020, 10, 21.	1.6	5
24	Cleavage of lignin model compounds and lignin ^{ox} using aqueous oxalic acid. Organic and Biomolecular Chemistry, 2019, 17, 7408-7415.	1.5	11
25	Improvement of Pelletability of Woody Biomass by Torrefaction under Pressurized Steam. Energy & Energy & Fuels, 2019, 33, 11253-11262.	2.5	26
26	Re-examination of Thermogravimetric Kinetic Analysis of Lignite Char Gasification. Energy & E	2.5	4
27	Biochar-Assisted Water Electrolysis. Energy & Samp; Fuels, 2019, 33, 11246-11252.	2.5	24
28	Quantitative Description of Catalysis of Inherent Metallic Species in Lignite Char during CO ₂ Gasification. Energy & E	2.5	6
29	Two-step conversion of cellulose to levoglucosenone using updraft fixed bed pyrolyzer and catalytic reformer. Fuel Processing Technology, 2019, 191, 29-35.	3.7	17
30	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.	3.2	34
31	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.	0.6	8
32	Continuous monitoring of char surface activity toward benzene. Carbon Resources Conversion, 2019, 2, 43-50.	3.2	9
33	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.	3.2	15
34	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
35	Bioâ€Based Chiral Amines via Azaâ€Michael Additions to (–)â€Levoglucosenone Under Aqueous Conditions. European Journal of Organic Chemistry, 2018, 2018, 2028-2038.	1.2	9
36	Computational Study on the Thermal Decomposition of Phenolâ€Type Monolignols. International Journal of Chemical Kinetics, 2018, 50, 304-316.	1.0	8

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37	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
38	CO ₂ Gasification of Sugar Cane Bagasse: Quantitative Understanding of Kinetics and Catalytic Roles of Inherent Metallic Species. Energy & Samp; Fuels, 2018, 32, 4255-4268.	2.5	18
39	Characteristic Properties of Lignite To Be Converted to High-Strength Coke by Hot Briquetting and Carbonization. Energy & Energy	2.5	14
40	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
41	Characteristics of gas evolution profiles during coal pyrolysis and its relation with the variation of functional groups. International Journal of Coal Science and Technology, 2018, 5, 452-463.	2.7	13
42	Nanomaterials as Catalysts. , 2018, , 45-82.		15
43	An Overview of Metal Oxide Nanostructures. , 2018, , 19-57.		45
44	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
45	Theoretical Study on Reaction Pathways Leading to CO and CO ₂ in the Pyrolysis of Resorcinol. Journal of Physical Chemistry A, 2017, 121, 631-637.	1.1	11
46	Catalytic hydrogenolysis of kraft lignin to monomers at high yield in alkaline water. Green Chemistry, 2017, 19, 2636-2645.	4.6	49
47	Theoretical Study on Hydrogenolytic Cleavage of Intermonomer Linkages in Lignin. Journal of Physical Chemistry A, 2017, 121, 2868-2877.	1.1	10
48	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.	3.7	2
49	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.	3.2	78
50	Theoretical Study on the Kinetics of Thermal Decomposition of Guaiacol and Catechol. Journal of Physical Chemistry A, 2017, 121, 8495-8503.	1.1	14
51	Synthesis and Electrochemical Properties of Fe ₃ C-carbon Composite as an Anode Material for Lithium-ion Batteries. Electrochemistry, 2017, 85, 630-633.	0.6	10
52	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.	0.9	3
53	Current Situation and Future Scope of Biomass Gasification in Japan. Evergreen, 2017, 4, 24-29.	0.3	3
54	Experimental investigation of thermal decomposition of dihydroxybenzene isomers: Catechol, hydroquinone, and resorcinol. Journal of Analytical and Applied Pyrolysis, 2016, 120, 321-329.	2.6	19

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55	Steam–Oxygen Gasification of Potassium-Loaded Lignite: Proof of Concept of Type IV Gasification. Energy & Concept of Type IV Gasification.	2.5	15
56	Kinetics and Mechanism of CO ₂ Gasification of Chars from 11 Mongolian Lignites. Energy & Light Representation of Chars from 11 Mongolian Lignites. Energy & Light Representation of Chars from 11 Mongolian Lignites.	2.5	15
57	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
58	Modification of Reactivity and Strength of Formed Coke from Victorian Lignite by Leaching of Metallic Species. ISIJ International, 2015, 55, 765-774.	0.6	17
59	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.	3.7	25
60	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.	6.6	18
61	Modeling of gas/particle flow in coal conversion with a drop tube reactor using a lumped kinetic model accounting volatiles–char interaction. Fuel Processing Technology, 2015, 138, 588-594.	3.7	9
62	Detailed Chemical Kinetic Modeling of Vapor-Phase Reactions of Volatiles Derived from Fast Pyrolysis of Lignin. Industrial & Samp; Engineering Chemistry Research, 2015, 54, 6855-6864.	1.8	50
63	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.	3.7	13
64	A CFD study on the reacting flow of partially combusting hot coke oven gas in a bench-scale reformer. Fuel, 2015, 159, 590-598.	3.4	12
65	Preparation of Coke from Hydrothermally Treated Biomass in Sequence of Hot Briquetting and Carbonization. ISIJ International, 2014, 54, 2461-2469.	0.6	18
66	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
67	Pyrolysis of Lignite with Internal Recycling and Conversion of Oil. Energy & Samp; Fuels, 2014, 28, 7285-7293.	2.5	14
68	Kinetics and Mechanism of Steam Gasification of Char from Hydrothermally Treated Woody Biomass. Energy & Energy	2.5	35
69	Low-Temperature Gasification of Biomass and Lignite: Consideration of Key Thermochemical Phenomena, Rearrangement of Reactions, and Reactor Configuration. Energy & Samp; Fuels, 2014, 28, 4-21.	2.5	51
70	Catalytic Hydrothermal Reforming of Lignin in Aqueous Alkaline Medium. Energy & 2014, 28, 76-85.	2.5	20
71	Leaching of Alkali and Alkaline Earth Metallic Species from Rice Husk with Bio-oil from Its Pyrolysis. Energy & Energy &	2.5	42
72	Sequential Pyrolysis and Potassium-Catalyzed Steam–Oxygen Gasification of Woody Biomass in a Continuous Two-Stage Reactor. Energy & Samp; Fuels, 2014, 28, 6407-6418.	2.5	10

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73	A mechanistic study on the reaction pathways leading to benzene and naphthalene in cellulose vapor phase cracking. Biomass and Bioenergy, 2014, 69, 144-154.	2.9	37
74	Examination of Kinetics of Non-catalytic Steam Gasification of Biomass/Lignite Chars and Its Relationship with the Variation of the Pore Structure. Energy & Structure, 2014, 28, 5902-5908.	2.5	21
75	Preparation and Steam Gasification of Fe-Ion Exchanged Lignite Prepared with Iron Metal, Water, and Pressurized CO ₂ . Energy & E	2.5	9
76	Catalytic Hydrothermal Reforming of Jatropha Oil in Subcritical Water for the Production of Green Fuels: Characteristics of Reactions over Pt and Ni Catalysts. Energy & Energy & 2013, 27, 4796-4803.	2.5	18
77	Detailed Kinetic Analysis and Modeling of Steam Gasification of Char from Ca-Loaded Lignite. Energy & Loaded Lignite. Ene	2.5	23
78	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
79	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
80	Detailed Analysis of Residual Volatiles in Chars from the Pyrolysis of Biomass and Lignite. Energy & E	2.5	21
81	Coproduction of clean syngas and iron from woody biomass and natural goethite ore. Fuel, 2013, 103, 64-72.	3.4	23
82	Preparation of Coke from Indonesian Lignites by a Sequence of Hydrothermal Treatment, Hot Briquetting, and Carbonization. Energy & Samp; Fuels, 2013, 27, 6607-6616.	2.5	31
83	Conversion Characteristics of Aromatic Hydrocarbons in Simulated Gaseous Atmospheres in Reducing Section of Two-Stage Entrained-Flow Coal Gasifier in Air- and O ₂ /CO ₂ -Blown Modes. Energy & Subsider the Subsider of Subsider Su	2.5	9
84	Estimation of Enthalpy of Bio-Oil Vapor and Heat Required for Pyrolysis of Biomass. Energy &	2.5	82
85	Simultaneous Maximization of the Char Yield and Volatility of Oil from Biomass Pyrolysis. Energy & Ene	2.5	38
86	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
87	Sulfonate Ionic Liquid as a Stable and Active Catalyst for Levoglucosenone Production from Saccharides via Catalytic Pyrolysis. Catalysts, 2013, 3, 757-773.	1.6	34
88	Process Development toward Efficient Charcoal Production from Biomass Using Moving Bed Pyrolyzer. Journal of the Society of Powder Technology, Japan, 2013, 50, 173-181.	0.0	1
89	Catalytic Hydrothermal Reforming of Water-Soluble Organics from the Pyrolysis of Biomass Using a Ni/Carbon Catalyst Impregnated with Pt. Energy & Energy & 2012, 26, 67-74.	2.5	15
90	Preparation of High-Strength Coke by Carbonization of Hot-Briquetted Victorian Brown Coal. Energy & En	2.5	30

Shinji Kudo

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91	Simultaneous Steam Reforming of Tar and Steam Gasification of Char from the Pyrolysis of Potassium-Loaded Woody Biomass. Energy & Energy & 2012, 26, 199-208.	2.5	77
92	Selective Production of Light Oil by Biomass Pyrolysis with Feedstock-Mediated Recycling of Heavy Oil. Energy &	2.5	27
93	Efficient levoglucosenone production by catalytic pyrolysis of cellulose mixed with ionic liquid. Green Chemistry, 2011, 13, 3306.	4.6	77
94	Pre-Reduction of Au/Iron Oxide Catalyst for Low-Temperature Water-Gas Shift Reaction Below 150 \hat{A}° C. Catalysts, 2011, 1, 175-190.	1.6	9
95	Enhancing Reaction Selectivity by Intentional Control of Concentration Profile in Catalytic Microreactor. Journal of Chemical Engineering of Japan, 2010, 43, 63-69.	0.3	2
96	A new preparation method of Au/ferric oxide catalyst for low temperature CO oxidation. Chemical Engineering Science, 2010, 65, 214-219.	1.9	22
97	High porous carbon with Cu/ZnO nanoparticles made by the pyrolysis of carbon material as a catalyst for steam reforming of methanol and dimethyl ether. Carbon, 2010, 48, 1186-1195.	5.4	41
98	Efficient Hydrogen Production from Methanol by Combining Micro Channel with Carbon Membrane Catalyst Loaded with Cu/Zn. Journal of Chemical Engineering of Japan, 2009, 42, 680-686.	0.3	5