

Yusaku Sakata

List of Publications by Year in descending order

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120
papers

4,581
citations

87723

38
h-index

110170

64
g-index

122
all docs

122
docs citations

122
times ranked

3473
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative studies of oil compositions produced from sawdust, rice husk, lignin and cellulose by hydrothermal treatment. <i>Fuel</i> , 2005, 84, 875-884.	3.4	286
2	Evaluation of morphological and chemical aspects of different wood species by spectroscopy and thermal methods. <i>Journal of Molecular Structure</i> , 2011, 988, 65-72.	1.8	269
3	Degradation of polyethylene and polypropylene into fuel oil by using solid acid and non-acid catalysts. <i>Journal of Analytical and Applied Pyrolysis</i> , 1999, 51, 135-155.	2.6	250
4	Low-temperature catalytic hydrothermal treatment of wood biomass: analysis of liquid products. <i>Chemical Engineering Journal</i> , 2005, 108, 127-137.	6.6	223
5	Hydrothermal upgrading of biomass: Effect of KCO concentration and biomass/water ratio on products distribution. <i>Bioresource Technology</i> , 2006, 97, 90-98.	4.8	175
6	Thermal and catalytic degradation of structurally different types of polyethylene into fuel oil. <i>Polymer Degradation and Stability</i> , 1997, 56, 37-44.	2.7	148
7	Low-Temperature Hydrothermal Treatment of Biomass: Effect of Reaction Parameters on Products and Boiling Point Distributions. <i>Energy & Fuels</i> , 2004, 18, 234-241.	2.5	141
8	Effect of pressure on thermal degradation of polyethylene. <i>Journal of Analytical and Applied Pyrolysis</i> , 2004, 71, 569-589.	2.6	121
9	Catalytic degradation of polyethylene into fuel oil over mesoporous silica (KFS-16) catalyst. <i>Journal of Analytical and Applied Pyrolysis</i> , 1997, 43, 15-25.	2.6	102
10	Pyrolysis studies of PP/PE/PS/PVC/HIPS-Br plastics mixed with PET and dehalogenation (Br, Cl) of the liquid products. <i>Journal of Analytical and Applied Pyrolysis</i> , 2004, 72, 27-33.	2.6	101
11	Hydrothermal upgrading of wood biomass: Influence of the addition of K ₂ CO ₃ and cellulose/lignin ratio. <i>Fuel</i> , 2008, 87, 2236-2242.	3.4	89
12	Removal of nitrogen, bromine, and chlorine from PP/PE/PS/PVC/ABS-Br pyrolysis liquid products using Fe- and Ca-based catalysts. <i>Polymer Degradation and Stability</i> , 2005, 87, 225-230.	2.7	85
13	Effect of Rb and Cs carbonates for production of phenols from liquefaction of wood biomass. <i>Fuel</i> , 2004, 83, 2293-2299.	3.4	83
14	The catalytic effect of Red Mud on the degradation of poly (vinyl chloride) containing polymer mixture into fuel oil. <i>Polymer Degradation and Stability</i> , 2001, 73, 335-346.	2.7	82
15	Novel calcium based sorbent (Ca-C) for the dehalogenation (Br, Cl) process during halogenated mixed plastic (PP/PE/PS/PVC and HIPS-Br) pyrolysis. <i>Green Chemistry</i> , 2002, 4, 372-375.	4.6	80
16	Recycling of waste lubricant oil into chemical feedstock or fuel oil over supported iron oxide catalysts. <i>Fuel</i> , 2004, 83, 9-15.	3.4	73
17	The individual and cumulative effect of brominated flame retardant and polyvinylchloride (PVC) on thermal degradation of acrylonitrile-butadiene-styrene (ABS) copolymer. <i>Chemosphere</i> , 2004, 56, 433-440.	4.2	71
18	Comparison of thermal degradation products from real municipal waste plastic and model mixed plastics. <i>Journal of Analytical and Applied Pyrolysis</i> , 2003, 70, 579-587.	2.6	68

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19	Thermal decomposition of polymer mixtures of PVC, PET and ABS containing brominated flame retardant: Formation of chlorinated and brominated organic compounds. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012, 96, 69-77.	2.6	68
20	Dechlorination of Chlorine Compounds in Poly(vinyl chloride) Mixed Plastics Derived Oil by Solid Sorbents. <i>Industrial & Engineering Chemistry Research</i> , 1999, 38, 1406-1410.	1.8	66
21	Characterization of reaction between zinc oxide and hydrogen sulfide. <i>Energy & Fuels</i> , 1994, 8, 1100-1105.	2.5	60
22	Feedstock recycling of waste polymeric material. <i>Journal of Material Cycles and Waste Management</i> , 2011, 13, 265-282.	1.6	58
23	Thermal degradation of PE and PS mixed with ABS-Br and debromination of pyrolysis oil by Fe- and Ca-based catalysts. <i>Polymer Degradation and Stability</i> , 2004, 84, 459-467.	2.7	55
24	Effect of Sb ₂ O ₃ in brominated heating impact polystyrene (HIPS-Br) on thermal degradation and debromination by iron oxide carbon composite catalyst (Fe-C). <i>Applied Catalysis B: Environmental</i> , 2003, 43, 229-241.	10.8	53
25	Stability of Zinc Oxide High-Temperature Desulfurization Sorbents for Reduction. <i>Energy & Fuels</i> , 1994, 8, 763-769.	2.5	51
26	Catalytic degradation of polyethylene and polypropylene into liquid hydrocarbons with mesoporous silica. <i>Microporous and Mesoporous Materials</i> , 1998, 21, 557-564.	2.2	51
27	Dehydrohalogenation during pyrolysis of brominated flame retardant containing high impact polystyrene (HIPS-Br) mixed with polyvinylchloride (PVC). <i>Fuel</i> , 2002, 81, 1819-1825.	3.4	51
28	Studies on thermal degradation of acrylonitrile-butadiene-styrene copolymer (ABS-Br) containing brominated flame retardant. <i>Journal of Analytical and Applied Pyrolysis</i> , 2003, 70, 369-381.	2.6	49
29	Catalytic hydrothermal treatment of pine wood biomass: effect of RbOH and CsOH on product distribution. <i>Journal of Chemical Technology and Biotechnology</i> , 2005, 80, 1097-1102.	1.6	47
30	Prevention of chlorinated hydrocarbons formation during pyrolysis of PVC or PVDC mixed plastics. <i>Green Chemistry</i> , 2006, 8, 697.	4.6	47
31	Controlled pyrolysis of polyethylene/polypropylene/polystyrene mixed plastics with high impact polystyrene containing flame retardant: Effect of decabromo diphenylethane (DDE). <i>Polymer Degradation and Stability</i> , 2007, 92, 211-221.	2.7	47
32	Catalytic degradation of polyolefins over hexagonal mesoporous silica: Effect of aluminum addition. <i>Journal of Analytical and Applied Pyrolysis</i> , 2007, 80, 360-368.	2.6	46
33	Modification of ZnO-TiO ₂ High-Temperature Desulfurization Sorbent by ZrO ₂ Addition. <i>Industrial & Engineering Chemistry Research</i> , 1999, 38, 958-963.	1.8	44
34	Catalytic dechlorination of chloroorganic compounds from PVC-containing mixed plastic-derived oil. <i>Applied Catalysis A: General</i> , 2001, 207, 79-84.	2.2	44
35	Vapour phase catalytic hydrodechlorination of chlorobenzene over Ni-carbon composite catalysts. <i>Journal of Molecular Catalysis A</i> , 2000, 161, 157-162.	4.8	41
36	Liquefaction of Mixed Plastics Containing PVC and Dechlorination by Calcium-Based Sorbent. <i>Energy & Fuels</i> , 2003, 17, 75-80.	2.5	41

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37	The effect of PVC and/or PET on thermal degradation of polymer mixtures containing brominated ABS. Fuel, 2004, 83, 2021-2028.	3.4	41
38	The Effect of Red Mud on the Liquefaction of Waste Plastics in Heavy Vacuum Gas Oil. Energy & Fuels, 2001, 15, 163-169.	2.5	40
39	Catalytic Degradation of Polypropylene into Liquid Hydrocarbons Using Silica-Alumina Catalyst. Chemistry Letters, 1996, 25, 245-246.	0.7	39
40	Alkaline hydrothermal treatment of brominated high impact polystyrene (HIPS-Br) for bromine and bromine-free plastic recovery. Chemosphere, 2006, 64, 1021-1025.	4.2	39
41	Characterization and reactivity of Al ₂ O ₃ –ZrO ₂ supported vanadium oxide catalysts. Journal of Molecular Catalysis A, 2006, 243, 149-157.	4.8	39
42	Catalytic Activity of ZnS Formed from Desulfurization Sorbent ZnO for Conversion of COS to H ₂ S. Industrial & Engineering Chemistry Research, 1995, 34, 1102-1106.	1.8	37
43	Development of a catalytic dehalogenation (Cl, Br) process for municipal waste plastic-derived oil. Journal of Material Cycles and Waste Management, 2003, 5, 113-124.	1.6	37
44	Effect of flame retardants and Sb ₂ O ₃ synergist on the thermal decomposition of high-impact polystyrene and on its debromination by ammonia treatment. Journal of Analytical and Applied Pyrolysis, 2007, 79, 346-352.	2.6	37
45	Laboratory Evaluation of Calcium-, Iron-, and Potassium-Based Carbon Composite Sorbents for Capture of Hydrogen Chloride Gas. Energy & Fuels, 2002, 16, 1533-1539.	2.5	35
46	Analysis of chlorine distribution in the pyrolysis products of poly(vinylidene chloride) mixed with polyethylene, polypropylene or polystyrene. Polymer Degradation and Stability, 2005, 89, 38-42.	2.7	35
47	Hydrodechlorination of chlorinated hydrocarbons over metal–carbon composite catalysts prepared by a modified carbothermal reduction method. Chemical Communications, 1999, , 1657-1658.	2.2	34
48	Soot Formation over Zinc Ferrite High-Temperature Desulfurization Sorbent. Energy & Fuels, 1995, 9, 344-353.	2.5	31
49	Characterization of Reaction between ZnO and COS. Industrial & Engineering Chemistry Research, 1996, 35, 2389-2394.	1.8	31
50	Composition of Nitrogen-Containing Compounds in Oil Obtained from Acrylonitrile–Butadiene–Styrene Thermal Degradation. Energy & Fuels, 2000, 14, 920-928.	2.5	31
51	Reactivity and durability of iron oxide high temperature desulfurization sorbents. Energy & Fuels, 1993, 7, 632-638.	2.5	30
52	Spontaneous Degradation of Municipal Waste Plastics at Low Temperature during the Dechlorination Treatment. Industrial & Engineering Chemistry Research, 1998, 37, 2889-2892.	1.8	30
53	Debromination of flame retardant high impact polystyrene (HIPS-Br) by hydrothermal treatment and recovery of bromine free plastics. Green Chemistry, 2003, 5, 260-263.	4.6	30
54	The role of temperature program and catalytic system on the quality of acrylonitrile-butadiene-styrene degradation oil. Journal of Analytical and Applied Pyrolysis, 2002, 63, 43-57.	2.6	29

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55	Catalytic Degradation of Acrylonitrile-Butadiene-Styrene into Fuel Oil 1. The Effect of Iron Oxides on the Distribution of Nitrogen-Containing Compounds. <i>Energy & Fuels</i> , 2001, 15, 559-564.	2.5	28
56	Thermal degradation of ABS-Br mixed with PP and catalytic debromination by iron oxide carbon composite catalyst (Fe-C). <i>Green Chemistry</i> , 2002, 4, 603-606.	4.6	26
57	Effect of poly(ethylene terephthalate) on the pyrolysis of brominated flame retardant containing high impact polystyrene and catalytic debromination of the liquid products. <i>Journal of Analytical and Applied Pyrolysis</i> , 2004, 71, 765-777.	2.6	26
58	Activated Carbon Monoliths from Phenol Resin and Carbonized Cotton Fiber for Methane Storage. <i>Energy & Fuels</i> , 2005, 19, 251-257.	2.5	25
59	The effect of silica-alumina catalysts on degradation of polyolefins by a continuous flow reactor. <i>Journal of Analytical and Applied Pyrolysis</i> , 2010, 89, 30-38.	2.6	23
60	Pyrolysis study of a PVDC and HIPS-Br containing mixed waste plastic stream: Effect of the poly(ethylene terephthalate). <i>Journal of Analytical and Applied Pyrolysis</i> , 2006, 77, 68-74.	2.6	22
61	Individual and simultaneous degradation of brominated high impact polystyrene and brominated acrylonitrile-butadiene-styrene and removal of heteroelements (Br, N, and O) from degradation oil by multiphase catalytic systems. <i>Journal of Material Cycles and Waste Management</i> , 2007, 9, 56-61.	1.6	21
62	Design of molecular sieving carbon - Studies on adsorption of various dyes in liquid phase.. <i>Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal</i> , 1987, 1987, 2260-2266.	0.1	20
63	Modified carbothermal reduction for the synthesis of ultrafine particle tungsten compounds dispersed in a microporous carbon matrix. <i>Journal of Materials Chemistry</i> , 1996, 6, 1241.	6.7	20
64	The co-pyrolysis of flame retarded high impact polystyrene and polyolefins. <i>Journal of Analytical and Applied Pyrolysis</i> , 2007, 80, 406-415.	2.6	20
65	Preparation of porous carbon membrane plates for pervaporation separation applications. <i>Separation and Purification Technology</i> , 1999, 17, 97-100.	3.9	19
66	Carbon-supported well-dispersed Cu-ZnO catalysts prepared from sawdust impregnated with [Cu(NO ₃) ₂ , Zn(NO ₃) ₂] solution: catalytic activity in CO ₂ hydrogenation to methanol. <i>Microporous Materials</i> , 1997, 9, 183-187.	1.6	17
67	Preparation of Carbon Electrodes for Electronic Double-Layer Capacitors by Carbonization of Metal-Ion-Exchanged Resins. <i>Electrochemical and Solid-State Letters</i> , 1999, 3, 1.	2.2	16
68	Effect of decabromodiphenyl ether and antimony trioxide on controlled pyrolysis of high-impact polystyrene mixed with polyolefins. <i>Chemosphere</i> , 2008, 72, 1073-1079.	4.2	16
69	Novel highly active FSM-16 supported molybdenum catalyst for hydrotreatment. <i>Chemical Communications</i> , 2008, , 5310.	2.2	15
70	A new kinetic model for temperature programmed thermogravimetry and its applications to the gasification of coal chars with steam and carbon dioxide.. <i>Journal of Chemical Engineering of Japan</i> , 1985, 18, 426-432.	0.3	13
71	Catalytic Activity of Lime for N ₂ O Decomposition under Coal Combustion Conditions. <i>Industrial & Engineering Chemistry Research</i> , 1999, 38, 1335-1340.	1.8	13
72	Catalytic Degradation of Acrylonitrile-Butadiene-Styrene into Fuel Oil 2. Changes in the Structure and Catalytic Activity of Iron Oxides. <i>Energy & Fuels</i> , 2001, 15, 565-570.	2.5	13

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73	Gas-Phase and Pd-Catalyzed Hydrodehalogenation of CBrClF ₂ , CCl ₂ F ₂ , CHClF ₂ , and CH ₂ F ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 3442-3452.	1.8	13
74	Novel debromination method for flame-retardant high impact polystyrene (HIPS-Br) by ammonia treatment. <i>Green Chemistry</i> , 2006, 8, 984.	4.6	13
75	The effect of PVC on thermal and catalytic degradation of polyethylene, polypropylene and polystyrene by a continuous flow reactor. <i>Journal of Analytical and Applied Pyrolysis</i> , 2009, 86, 33-38.	2.6	13
76	Effect of polyethylene terephthalate (PET) on the pyrolysis of brominated flame retardant-containing high-impact polystyrene (HIPS-Br). <i>Journal of Material Cycles and Waste Management</i> , 2010, 12, 332-340.	1.6	12
77	Co-processing of DVDs and CDs with vegetable cooking oil by thermal degradation. <i>Journal of Material Cycles and Waste Management</i> , 2007, 9, 62-68.	1.6	11
78	Enhanced debromination of brominated flame retardant plastics under microwave irradiation. <i>Green Chemistry</i> , 2008, 10, 739.	4.6	11
79	Preparation of novel TiP ₂ O ₇ carbon composite using ion-exchanged resin (C467) and evaluation for photocatalytic decomposition of 2-propanol. <i>Applied Catalysis A: General</i> , 2004, 260, 163-168.	2.2	10
80	Preparation and characterization of nanocrystalline CeO ₂ -ZrO ₂ catalysts by dry method: effect of oxidizing conditions. <i>Applied Catalysis A: General</i> , 2004, 275, 173-181.	2.2	10
81	Catalytic degradation of polyethylene and polypropylene to fuel oil. <i>Macromolecular Symposia</i> , 1998, 135, 7-18.	0.4	9
82	Preparation, characterization and reactivity of calcium-carbon, iron-carbon composites for dechlorination. <i>Applied Catalysis A: General</i> , 2004, 261, 135-141.	2.2	9
83	Development of Catalytic Gasification Process for Coal Char. <i>Kagaku Kogaku Ronbunshu</i> , 1982, 8, 51-58.	0.1	7
84	Catalytic activity of mineral matter from western Kentucky coals for hydro-desulphurization and hydrodenitrogenation. <i>Fuel</i> , 1983, 62, 508-517.	3.4	7
85	Selective Catalytic Dechlorination of Chloro Alkanes over Iron-based Catalysts. <i>Chemistry Letters</i> , 1999, 28, 1321-1322.	0.7	7
86	Thermal degradation of polyethylene into fuel oil over silica-alumina by a continuous flow reactor. <i>Journal of Analytical and Applied Pyrolysis</i> , 2009, 86, 354-359.	2.6	7
87	ニッポンケイ酸工業株式会社. <i>Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industry</i> , 1980, 858-864.	0.1	6
88	Utilization of waste biomass and replacement of stoichiometric reagents for the synthesis of nanocrystalline CeO ₂ , ZrO ₂ and CeO ₂ -ZrO ₂ . <i>Green Chemistry</i> , 2003, 5, 480-483.	4.6	6
89	Pyrolysis of Polypropylene/Polyethylene/Polystyrene and Polyvinylchloride Mixed Plastics using CaCO ₃ . <i>Progress in Rubber, Plastics and Recycling Technology</i> , 2004, 20, 163-170.	0.8	6
90	Thermal degradation of polyethylene in the presence of a non-acidic porous solid by a continuous flow reactor. <i>Journal of Analytical and Applied Pyrolysis</i> , 2022, 161, 105395.	2.6	6

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91	Comparison of hydrodesulfurization and hydrodenitrogenation over API reference clays, silica, alumina, and cobalt molybdate. Industrial & Engineering Chemistry Product Research and Development, 1983, 22, 250-255.	0.1	5
92	Preparation of activated fibrous carbon from phenolic fabric and its molecular sieving properties.. Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 1987, 1987, 990-1000.	0.1	5
93	The Properties of Electric Double Layer Capacitor of Cu-Carbon Composite Prepared from Sawdust. Electrochemistry, 2001, 69, 434-436.	0.6	5
94	Title is missing!. Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 1979, 1979, 1569-1581.	0.1	4
95	Catalytic Process for the Conversion of Halon 1211 (CBrClF ₂) to Halon 1301 (CBrF ₃) and CFC 13 (CClF ₃). Industrial & Engineering Chemistry Research, 2003, 42, 6000-6006.	1.8	4
96	Liquefaction of PVC Mixed Plastics. , 2006, , 493-529.		4
97	Extraction Properties of a Y-Pattern Microchannel Reactor with a Settler. Kagaku Kogaku Ronbunshu, 2004, 30, 159-163.	0.1	4
98	Adsorption state of organic compounds in gaseous phase over fibrous activated carbon and granular activated carbon.. Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 1988, 1988, 1549-1555.	0.1	3
99	Fossil Energy. Development of Catalyst for Simultaneous Oxidative Adsorption of SO ₂ and NO.. Kagaku Kogaku Ronbunshu, 1994, 20, 880-888.	0.1	3
100	Hydrocracking of Polycyclic Aromatic Hydrocarbons Catalyzed by Three Nickel-supported Different Zeolite Catalysts.. Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute), 1996, 39, 120-128.	0.1	3
101	Molecular Sieving Adsorption of Polyethylene Glycols in Aqueous Solution with Fibrous and Granular Activated Carbons. Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 1987, , 2267-2274.	0.1	3
102	Waste Treatment Technologies. Preparation and Properties of Iron Oxide-Carbon Composite Catalysts for Dechlorination.. Kagaku Kogaku Ronbunshu, 2002, 28, 539-544.	0.1	3
103	Reduction of Hematite Ore and Iron Oxide with Methane. Kagaku Kogaku Ronbunshu, 1982, 8, 168-173.	0.1	2
104	Rate Expression and Evaluation of Reactivity for Gasification of Various Coal Chars with Steam and Oxygen. Kagaku Kogaku Ronbunshu, 1982, 8, 174-180.	0.1	2
105	Improvement of Specific Capacitance with Addition of Surfactants to an Aqueous Electrolyte. Electrochemistry, 2007, 75, 598-600.	0.6	2
106	Micro-Beaker Chemical Process using a Slide Type Three-Port Valve System for Slug Flow Generation. Kagaku Kogaku Ronbunshu, 2014, 40, 38-42.	0.1	2
107	Gasification Reactivity of Coals Treated with Sulfuric Acid.. Journal of Chemical Engineering of Japan, 1994, 27, 199-204.	0.3	1

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109	Optimal Preparation Yield of Porous Carbon for Capacitor Electrode. Tanso, 2003, 2003, 221-224.	0.1	1
110	Shaking Catalysts Accelerating Chemical Reaction in Micro Reactors. IEEJ Transactions on Sensors and Micromachines, 2005, 125, 467-472.	0.0	1
111	Development of Desulphurization Plants Using Spray Drop Simulation Model. Kagaku Kogaku Ronbunshu, 2006, 32, 59-65.	0.1	1
112	On Apparent Activation Energy of Solid-Catalyzed Gas-Phase Reaction. Chemical Engineering, 1971, 35, 455-461,a1.	0.0	0
113	Title is missing!. Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 1983, 1983, 583-591.	0.1	0
114	Improvement in Adsorption Capacity of Nitrogen over X-type Zeolites by n-Hexane Plasma Processing and Heat Treatment. Chemistry Letters, 1994, 23, 5-8.	0.7	0
115	Preparation of Manganese Oxide Catalysts for Decomposition of Ozone by Alkali and Ozone Precipitation Methods.. Kagaku Kogaku Ronbunshu, 1995, 21, 1060-1068.	0.1	0
116	Feedstock Recycling of Automobile Waste Bumpers: A Case Study. , 0, , .		0
117	Preparation of Ruthenium-Porous Carbon Composite from a Chelate Resin and Its Application to Capacitor Electrode. Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2006, 53, 971-977.	0.1	0
118	Preparation and Capacitance of Cu-dispersed Porous Carbon Composites for Capacitor Electrodes Made from Different Kinds of Sawdust.. Kagaku Kogaku Ronbunshu, 2002, 28, 350-353.	0.1	0
119	Reaction Characteristics of Chars Formed by One-Stage and Two-Stage Entrained-Flow Gasification. Kagaku Kogaku Ronbunshu, 2004, 30, 647-653.	0.1	0
120	Activated Adsorption/Desorption of Cyclohexane over Activated Carbon Fiber with Molecular Sieving Property. Tanso, 1994, 1994, 115-118.	0.1	0