Toshimasa Takanohashi

List of Publications by Year
in descending order

150 papers	4,203 citations	101543 36 h-index	149698 56 g-index
151 all docs	151 docs citations	151 times ranked	1872 citing authors

#	Article	IF	Citations
1	Modeling the Chemical Structures of Coals with Different Classifications Using Mean Molecular Weights. ISIJ International, 2022, 62, 948-956.	1.4	2
2	Determination of Carbonyl Functional Groups in Heavy Oil Using Infrared Spectroscopy. Energy & Fuels, 2020, 34, 5231-5235.	5.1	18
3	Reforming of Low-rank Coal by Chemical Upgrading. ISIJ International, 2019, 59, 1382-1385.	1.4	2
4	Effect of Carbonization Heating Rate on the Tensile Strength of Cokes Prepared from Chemically Upgraded Low Rank Coals. ISIJ International, 2019, 59, 1482-1487.	1.4	4
5	Characterization of an Iron-Oxide-Based Catalyst Used for Catalytic Cracking of Heavy Oil with Steam. Energy & Fuels, 2018, 32, 2834-2839.	5.1	22
6	Determination of Hansen Solubility Parameters of Asphaltene Model Compounds. Energy & Fuels, 2018, 32, 11296-11303.	5.1	31
7	Iron Oxide-Based Catalyst for Catalytic Cracking of Heavy Oil. , 2018, , .		1
8	Effect of binder amount on the development of coal-binder interface and its relationship with the strength of the carbonized coal-binder composite. Carbon Resources Conversion, 2018, 1, 139-146.	5.9	10
9	Effect of hydrothermal conditions on production of coal organic microspheres. Fuel, 2018, 234, 1301-1312.	6.4	4
10	Finding of coal organic microspheres during hydrothermal treatment of brown coal. Fuel, 2017, 195, 143-150.	6.4	10
11	Fractionation of Degraded Lignin by Using a Water/1â€Butanol Mixture with a Solidâ€Acid Catalyst: A Potential Source of Phenolic Compounds. ChemCatChem, 2017, 9, 2875-2880.	3.7	24
12	Production of carbonaceous microspheres from wood sawdust by a novel hydrothermal carbonization and extraction method. RSC Advances, 2017, 7, 42123-42128.	3.6	9
13	Effect of Volume Breakage Due to DI Measurement on Pore Structure in Coke. ISIJ International, 2016, 56, 1948-1955.	1.4	14
14	A novel process for the production of aromatic hydrocarbons from brown coal in water medium by hydrothermal oxidation and catalytic hydrothermal decarboxylation. Fuel, 2016, 182, 437-445.	6.4	8
15	Oxidative Desulfurization of Coal Tar Pitch Using a Ureaâ€"Hydrogen Peroxide Complex/Carboxylic Anhydride System in THF. Chemistry Letters, 2015, 44, 169-170.	1.3	5
16	Desulfurization of Heavy Oil with Iron Oxide-based Catalysts Using Steam. Journal of the Japan Petroleum Institute, 2015, 58, 336-340.	0.6	7
17	Catalytic Cracking of Heavy Oil with Iron Oxide-based Catalysts Using Hydrogen and Oxygen Species from Steam. Journal of the Japan Petroleum Institute, 2015, 58, 329-335.	0.6	12
18	Asphaltene Aggregation Behavior in Bromobenzene Determined By Small-angle X-ray Scattering. Energy & Fuels, 2015, 29, 5737-5743.	5.1	19

#	Article	IF	Citations
19	Mapping the Degree of Asphaltene Aggregation, Determined Using Rayleigh Scattering Measurements and Hansen Solubility Parameters. Energy & Fuels, 2015, 29, 2808-2812.	5.1	13
20	Molecular composition of extracts obtained by hydrothermal extraction of brown coal. Fuel, 2015, 159, 751-758.	6.4	18
21	Effect of CO2 addition on gas composition of synthesis gas from catalytic gasification of low rank coals. Fuel, 2015, 152, 13-18.	6.4	19
22	An efficient production of benzene from benzoic acid in subcritical water using a copper(i) oxide catalyst. Green Chemistry, 2015, 17, 791-794.	9.0	9
23	Relationship between Chemical Structure of Caking Additives Produced from Low Rank Coals and Coke Strength. ISIJ International, 2014, 54, 2426-2431.	1.4	24
24	Solvent Effect of Water on Supercritical Water Treatment of Heavy Oil. Journal of the Japan Petroleum Institute, 2014, 57, 11-17.	0.6	16
25	Relationship between Chemical Structure of Caking Additives Produced from Low Rank Coals and Coke Strength. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2014, 100, 134-139.	0.4	1
26	Adsorption and Desorption Behavior of Asphaltene on Polymer-Brush-Immobilized Surfaces. ACS Applied Materials & Interfaces, 2014, 6, 20385-20389.	8.0	38
27	Comparison of Thermal Cracking Processes for Athabasca Oil Sand Bitumen: Relationship between Conversion and Yield. Energy & Fuels, 2014, 28, 6322-6325.	5.1	19
28	Bitumen Cracking in Supercritical Water Upflow. Energy & Fuels, 2014, 28, 858-861.	5.1	30
29	Sulfur and Nitrogen Distributions during Coal Carbonization and the Influences of These Elements on Coal Fluidity and Coke Strength. ISIJ International, 2014, 54, 2439-2445.	1.4	19
30	Relationship between Extraction Yield of Coal by Polar Solvent and Oxygen Functionalities in Coals. Energy & Fuels, 2013, 27, 6594-6597.	5.1	17
31	Changes in nitrogen functionality due to solvent extraction of coal during HyperCoal production. Fuel Processing Technology, 2013, 106, 275-280.	7.2	37
32	Upgrading of Bitumen in the Presence of Hydrogen and Carbon Dioxide in Supercritical Water. Energy & Fuels, 2013, 27, 646-653.	5.1	40
33	Fate of Coal-Bound Nitrogen during Carbonization of Caking Coals. Energy & Fuels, 2013, 27, 7330-7335.	5.1	11
34	Specific Asphaltene Aggregation in Toluene at Around 50 mg/L. Journal of the Japan Petroleum Institute, 2013, 56, 58-59.	0.6	7
35	Supra-Molecular Asphaltene Relaxation Technology. Journal of the Japan Petroleum Institute, 2013, 56, 61-68.	0.6	4
36	Separation of Asphaltene Using Columns Packed with Teflon Beads. Journal of the Japan Petroleum Institute, 2012, 55, 142-147.	0.6	0

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37	Effect of Supercritical Water on Desulfurization Behavior of Oil Sand Bitumen. Journal of the Japan Petroleum Institute, 2012, 55, 261-266.	0.6	8
38	Effect of water properties on the degradative extraction of asphaltene using supercritical water. Journal of Supercritical Fluids, 2012, 68, 113-116.	3.2	35
39	CORRECTIONS: We apologize for the following error which occurred in Vol. 56, No. 2 (March issue), page 61.. Journal of the Japan Petroleum Institute, 2012, 56, 180-181.	0.6	0
40	Estimation of the Extraction Yield of Coals by a Simple Analysis. Energy & Fuels, 2011, 25, 2565-2571.	5.1	15
41	Production of Light Oil by Oxidative Cracking of Oil Sand Bitumen Using Iron Oxide Catalysts in a Steam Atmosphere. Energy & Fuels, 2011, 25, 524-527.	5.1	43
42	Addition Effect of Model Compounds of Coal Extract on Coke Strength. ISIJ International, 2011, 51, 1044-1049.	1.4	14
43	Effect of Coal Rank on Coking Property of HyperCoal Blends. Nihon Energi Gakkaishi/Journal of the Japan Institute of Energy, 2011, 90, 853-858.	0.2	13
44	Effect of supercritical water on upgrading reaction of oil sand bitumen. Journal of Supercritical Fluids, 2010, 55, 223-231.	3.2	137
45	Conditions of Supercritical Water for Good Miscibility with Heavy Oils. Journal of the Japan Petroleum Institute, 2010, 53, 61-62.	0.6	26
46	Controlling the H₂/CO Ratio of the Synthesis Gas in a Single Step by Catalytically Gasifying Coal in a Steam and Carbon Dioxide Mixed Environment at Low Temperatures. Energy & Fuels, 2010, 24, 1745-1752.	5.1	14
47	Effect of 1-Methylnaphthalene Solvent on Cracking of Oil Sand Bitumen with Iron Oxide Catalyst in Steam Atmosphere. Journal of the Japan Petroleum Institute, 2010, 53, 260-261.	0.6	2
48	Addition Effects of Coal Extract Fractions on Coke Strength. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2010, 96, 218-223.	0.4	3
49	Catalytic Hydrogenation of HyperCoal (Ashless Coal) and Reusability of Catalyst. Energy & Fuels, 2009, 23, 3652-3657.	5.1	26
50	Effect of Steam Partial Pressure on Gasification Rate and Gas Composition of Product Gas from Catalytic Steam Gasification of HyperCoal. Energy & Fuels, 2009, 23, 4887-4892.	5.1	15
51	Structural Characteristics and Gasification Reactivity of Chars Prepared from K₂CO₃ Mixed HyperCoals and Coals. Energy & Fuels, 2009, 23, 1888-1895.	5.1	25
52	Recovery of Lighter Fuels by Cracking Heavy Oil with Zirconiaâˆ’Aluminaâˆ’Iron Oxide Catalysts in a Steam Atmosphere. Energy & Fuels, 2009, 23, 1338-1341.	5.1	49
53	Kinetic Model for Catalytic Cracking of Heavy Oil with a Zirconiaâˆ’Aluminaâˆ’Iron Oxide Catalyst in a Steam Atmosphere. Energy & Fuels, 2009, 23, 5308-5311.	5.1	12
54	Elution of Ti during solvent extraction of coal and the transformation of eluted Ti upon combustion. AIChE Journal, 2008, 54, 1646-1655.	3.6	3

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55	Characterisation of HyperCoals from coals of various ranks. Fuel, 2008, 87, 592-598.	6.4	76
56	Low temperature catalytic steam gasification of HyperCoal to produce H2 and synthesis gas. Fuel, 2008, 87, 491-497.	6.4	73
57	Coordination structures of organically bound paramagnetic metals in coal and their transformation upon solvent extraction. Fuel, 2008, 87, 2628-2640.	6.4	15
58	Effect of catalyst addition on gasification reactivity of HyperCoal and coal with steam at 775â€“700Â°C. Fuel, 2008, 87, 2686-2690.	6.4	51
59	Effects of HyperCoal Addition on Coke Strength and Thermoplasticity of Coal Blends. Energy & Fuels, 2008, 22, 1779-1783.	5.1	58
60	Partitioning of Boron during the Generation of Ultraclean Fuel (HyperCoal) by Solvent Extraction of Coal. Energy & Fuels, 2008, 22, 1183-1190.	5.1	24
61	Sequential Leaching of Coal to Investigate the Elution of Inorganic Elements Into Coal Extract (HyperCoal). Energy & Fuels, 2008, 22, 2474-2481.	5.1	11
62	Catalytic Steam Gasification Reactivity of HyperCoals Produced from Different Rank of Coals at 600âˆ’775 Â°C. Energy & Fuels, 2008, 22, 3561-3565.	5.1	31
63	Determining Asphaltene Aggregation in Solution from Diffusion Coefficients As Determined by Pulsed-Field Gradient Spinâˆ’Echo ¹H NMR. Energy & Fuels, 2008, 22, 3989-3993.	5.1	35
64	Increase in Extraction Yields of Coals by Water Treatment:Â Beulah-Zap Lignite. Energy & Fuels, 2007, 21, 205-208.	5.1	8
65	Effect of Noncovalent Bonds on the Thermal Extraction of Subbituminous Coals. Energy & Fuels, 2006, 20, 1605-1608.	5.1	28
66	Upgrading the Solvent Used for the Thermal Extraction of Sub-Bituminous Coal. Energy & Fuels, 2006, 20, 2063-2066.	5.1	40
67	Relationship between Thermal Extraction Yield and Oxygen-Containing Functional Groups. Energy & Fuels, 2006, 20, 2088-2092.	5.1	29
68	Synergistic Effect of Coal Blends on Thermoplasticity Evaluated Using a Temperature-Variable Dynamic Viscoelastic Measurement. Energy & Fuels, 2006, 20, 2552-2556.	5.1	13
69	Effect ofn-Pentane andn-Heptane Insolubles on the Pyrolysis of Vacuum Residue. Energy & Fuels, 2006, 20, 2475-2477.	5.1	8
70	Mechanism of Thermoplasticity for Coal Blends Containing Low-quality Coals. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2006, 92, 132-136.	0.4	4
71	Investigation of the remaining major and trace elements in clean coal generated by organic solvent extraction. Fuel, 2005, 84, 1487-1487.	6.4	42
72	Effect of Pretreatment with Carbonic Acid on â€œHyperCoalâ€•(Ash-Free Coal) Production from Low-Rank Coals. Energy & Fuels, 2005, 19, 2021-2025.	5.1	37

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73	Thermal Release and Catalytic Removal of Organic Sulfur Compounds from Upper Freeport Coal. Energy & Fuels, 2005, 19, 339-342.	5.1	21
74	Molecular Weight Calibration of Asphaltenes Using Gel Permeation Chromatography/Mass Spectrometry. Energy & Fuels, 2005, 19, 1991-1994.	5.1	57
75	Estimation of the Structural Parameter Distribution of Asphaltene Using a Preparative GPC Technique. ACS Symposium Series, 2005, , 65-74.	0.5	0
76	Coking Reactivities of Petroleum Asphaltenes on Thermal Cracking. ACS Symposium Series, 2005, , 171-181.	0.5	1
77	Estimating the Interaction Energy of Asphaltene Aggregates with Aromatic Solvents. Energy & Fuels, 2005, 19, 1023-1028.	5.1	21
78	Observation of Stepwise Association of Petroleum-derived Asphaltene and Maltene Components by Surface Tension Measurements. Journal of the Japan Petroleum Institute, 2004, 47, 32-36.	0.6	5
79	Interrelation between Blend Ratio and Heating Rate on Thermoplasticity of Coal Blends. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2004, 90, 739-742.	0.4	7
80	Effect of acid treatment on thermal extraction yield in ashless coal production. Fuel, 2004, 83, 727-732.	6.4	56
81	Effect of extraction condition on â€œHyperCoalâ€•production (2)â€"effect of polar solvents under hot filtration. Fuel Processing Technology, 2004, 86, 61-72.	7.2	98
82	Structural Relaxation Behaviors of Three Different Asphaltenes Using MD Calculations. Petroleum Science and Technology, 2004, 22, 901-914.	1.5	42
83	Characterization of Asphaltenes from Brazilian Vacuum Residue Using Heptaneâ^'Toluene Mixtures. Energy & Fuels, 2004, 18, 1792-1797.	5.1	33
84	Observation of Glass Transition in Asphaltenes. Energy & Fuels, 2004, 18, 283-284.	5.1	52
85	Elucidation of Mechanisms Involved in Acid Pretreatment and Thermal Extraction during Ashless Coal Production. Energy & Fuels, 2004, 18, 97-101.	5.1	35
86	A Study of the Interaction of Carbon Disulfide/N-Methyl-2-pyrrolidinone Mixed Solvents with Argonne Premium Coals Using an Inverse Liquid Chromatography Technique. Energy & Fuels, 2004, 18, 450-454.	5.1	3
87	The Effects of Pretreatment and the Addition of Polar Compounds on the Production of â€œHyperCoalâ€• from Subbituminous Coals. Energy & Fuels, 2004, 18, 995-1000.	5.1	45
88	Analysis of the Molecular Weight Distribution of Petroleum Asphaltenes Using Laser Desorption-Mass Spectrometry. Energy & Fuels, 2004, 18, 1405-1413.	5.1	98
89	Interactions among Different Fractions in the Thermoplastic State of Goonyella Coking Coal. Energy & Fuels, 2004, 18, 349-356.	5.1	13
90	Increase in Extraction Yields of Coals by Water Treatment. Energy & Fuels, 2004, 18, 1414-1418.	5.1	25

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91	Characterization of Asphaltene Aggregates Using X-ray Diffraction and Small-Angle X-ray Scattering. Energy & Fuels, 2004, 18, 1118-1125.	5.1	193
92	Coal Dissolution by Heat Treatment at Temperatures up to 300 Â°C inN-Methyl-2-pyrrolidinone with Addition of Lithium Halide. 1. Effects of Heat Treatment Conditions on the Dissolution Yield. Energy & Fuels, 2003, 17, 762-767.	5.1	6
93	Role ofN-Methyl-2-Pyrrolidinone in Hydrogen Donation from 9,10-Dihydroanthracene to Coal at 300 Â°C. Energy & Fuels, 2003, 17, 1399-1400.	5.1	3
94	Coal Dissolution by Heat Treatment at Temperatures up to 300 Â°C inN-Methyl-2-pyrrolidinone with Addition of Lithium Halide. 2. Elucidation of Mechanism by Investigation of the Structural Changes of Heat-Treated Coals. Energy & Fuels, 2003, 17, 768-773.	5.1	4
95	Aggregates Structure Analysis of Petroleum Asphaltenes with Small-Angle Neutron Scattering. Energy & Fuels, 2003, 17, 127-134.	5.1	121
96	Molecular Dynamics Simulation of the Heat-Induced Relaxation of Asphaltene Aggregates. Energy & Fuels, 2003, 17, 135-139.	5.1	94
97	Dissolution and Dilution of Asphaltenes in Organic Solvents. Energy & Fuels, 2003, 17, 101-106.	5.1	30
98	Molecular Dynamics Simulation of Structural Relaxation of Asphaltene Aggregates. Petroleum Science and Technology, 2003, 21, 491-505.	1.5	31
99	Difference in Extraction Yields between CS2/NMP and NMP for Upper Freeport Coal. Energy & Fuels, 2003, 17, 255-256.	5.1	18
100	Relationship between Thermal Extraction Yield and Softening Temperature for Coals. Energy & Fuels, 2002, 16, 1006-1007.	5.1	43
101	The Behavior of Free Radicals in Coal at Temperatures up to 300 Â°C in Various Organic Solvents, Using in Situ EPR Spectroscopy. Energy & Fuels, 2002, 16, 1116-1120.	5.1	14
102	Construction of a Model Structure for Upper Freeport Coal Using 13C NMR Chemical Shift Calculations. Energy & Fuels, 2002, 16, 379-387.	5.1	56
103	The Nature of the Aggregated Structure of Upper Freeport Coal. Energy & Fuels, 2002, 16, 6-11.	5.1	15
104	Temperature-variable dynamic viscoelastic measurements for coal blends of coking coal with slightly coking coal. Fuel Processing Technology, 2002, 77-78, 275-283.	7.2	11
105	Molecular simulation of relaxation behaviors of coal-aggregated structures. Fuel Processing Technology, 2002, 77-78, 53-60.	7.2	14
106	Modification of Model Structures of Upper Freeport Coal Extracts Using13C NMR Chemical Shift Calculations. Energy & Fuels, 2001, 15, 591-598.	5.1	28
107	Dynamic Viscoelastic Measurement of Coal Extracts and Residues. Energy & Fuels, 2001, 15, 170-175.	5.1	16
108	Effect of Heating Rate on Structural Changes of Heat-treated Coals. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2001, 87, 454-458.	0.4	13

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109	Sorption behaviors of methanol vapor by coal extracts and residues. Fuel, 2000, 79, 349-353.	6.4	23
110	Study on thermoplasticity of coals by dynamic viscoelastic measurement: effect of coal rank and comparison with Gieseler fluidity. Fuel, 2000, 79, 399-404.	6.4	36
111	Increase of the extraction yields of coals by the addition of aromatic amines. Fuel, 2000, 79, 1533-1538.	6.4	23
112	Effect of lighter constituents on the solubility of heavy constituents of coals. Fuel, 2000, 79, 955-960.	6.4	11
113	Computer Simulation of Solvent Swelling of Coal Molecules:â€‰ Effect of Different Solvents. Energy & Fuels, 2000, 14, 393-399.	5.1	22
114	An Inverse Liquid Chromatography Study of the Interaction of Organic Compounds with Argonne Premium Coals. Energy & Fuels, 2000, 14, 720-726.	5.1	13
115	Coal Dissolution by Heat Treatments inN-Methyl-2-pyrrolidinone, 1,4,5,8,9,10-Hexahydroanthracene, and Their Mixed Solvents:â€‰ A Large Synergistic Effect of the Mixed Solvents. Energy & Fuels, 2000, 14, 190-196.	5.1	20
116	Adsorption and Diffusion of Alcohol Vapors by Argonne Premium Coals. Energy & Fuels, 2000, 14, 915-919.	5.1	25
117	Relationship between Variation of Parameters and Behaviors of Coals during Heating. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 1999, 85, 382-386.	0.4	10
118	Temperature-variable dynamic viscoelastic measurement for coals. Fuel, 1999, 78, 865-866.	6.4	22
119	Computer Simulation of Methanol Swelling of Coal Molecules. Energy & Fuels, 1999, 13, 922-926.	5.1	31
120	Irreversible Structural Changes in Coals during Heating. Energy & Fuels, 1999, 13, 506-512.	5.1	18
121	Sorption Behaviors of Various Organic Vapors to Argonne Premium Coal Samples. Energy & Fuels, 1998, 12, 891-896.	5.1	21
122	Viscoelastic Behaviors of Loy Yang Coalâ^'N-Methyl-2-pyrrolidinone Mixtures. Energy & Fuels, 1998, 12, 476-478.	5.1	6
123	Simulation of Interaction of Coal Associates with Solvents Using the Molecular Dynamics Calculation. Energy & Fuels, 1998, 12, 1168-1173.	5.1	66
124	Effect of Heavy Solvent-Soluble Constituents on Coal Fluidity. Energy & Fuels, 1998, 12, 913-917.	5.1	30
125	Coal Gels Formed by Coalâ^'Solvent Interactions. Energy & Fuels, 1998, 12, 470-475.	5.1	11
126	Molecular and Colloidal Structure of Coal Asphaltenes and Other Heavy Solvent Soluble Components. , 1998, , 203-225.		4

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127	Surface Tension of Coal Extracts in Organic Solvents. Energy & Fuels, 1996, 10, 262-263.	5.1	3
128	Inverse Size Exclusion Chromatography Using Extraction Residues or Extracts of Coals as a Stationary Phase. Energy & Fuels, 1996, 10, 1012-1016.	5.1	6
129	Extraction and Swelling of Low-Rank Coals with Various Solvents at Room Temperature. Energy & Fuels, 1996, 10, 1128-1132.	5.1	77
130	Study of the Interaction of Aromatic Compounds with Coals by Inverse Liquid Chromatography. Energy & Fuels, 1996, 10, 1017-1021.	5.1	9
131	Mixed Solvent Extraction Yield and Structural Changes of Heat-Treated Coals and Their Relation to Coal Fluidity. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 1996, 82, 366-371.	0.4	17
132	Heat treatment of coals in hydrogen-donating solvents at temperatures as low as 175-300Â°C. Coal Science and Technology, 1995, 24, 1239-1242.	0.0	1
133	Investigation of Associated Structure of Upper Freeport Coal by Solvent Swelling. Energy & Fuels, 1995, 9, 788-793.	5.1	60
134	A Model Structure of Zao Zhuang Bituminous Coal. Energy & Fuels, 1995, 9, 1003-1010.	5.1	52
135	Evaluation of Association of Solvent-Soluble Molecules of Bituminous Coal by Computer Simulation. Energy & Fuels, 1994, 8, 395-398.	5.1	57
136	Fossil Energy. Estimation of Length of Intercluster Bond in Coal by Density Simulation of Coal Molecular Model.. Kagaku Kogaku Ronbunshu, 1994, 20, 959-964.	0.3	2
137	Effects of additives and oxygen on extraction yield with cs2-NMP mixed solvent for argonne premium coal samples. Fuel, 1993, 72, 579-580.	6.4	39
138	Effect of maceral composition on the extraction of bituminous coals with carbon disulphide-N-methyl-2-pyrrolidinone mixed solvent at room temperature. Fuel, 1993, 72, 51-55.	6.4	11
139	Effect of TCNE addition on the extraction of coals and solubility of coal extracts. Energy & Fuels, 1993, 7, 1108-1111.	5.1	42
140	Swelling of the extracts and residues from carbon disulfide-N-methyl-2-pyrrolidinone mixed solvent extraction. Energy & Fuels, 1992, 6, 859-862.	5.1	26
141	Thermal behavior of coals at temperatures as low as 100-350.degree.C: heat treatment of THF-insoluble extract from carbon disulfide-NMP mixed solvent extraction of Zao Zhuang coal. Energy & Fuels, 1992, 6, 854-858.	5.1	7
142	Insolubilization of coal soluble constituents in some bituminous coals by refluxing with pyridine. Energy & Fuels, 1991, 5, 708-711.	5.1	17
143	On the solvent soluble constituents originally existing in Zao Zhuang coal. Fuel, 1991, 70, 1236-1237.	6.4	16
144	Effect of additives on the solubility of pyridine insoluble, mixed solvent soluble fractions of bituminous coals. Fuel, 1990, 69, 1577-1578.	6.4	30

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145	Decrease of extraction yields after acetylation or methylation of bituminous coals. Energy & Fuels, 1990, 4, 333-335.	5.1	10
146	Extraction of Argonne Premium coal samples with carbon disulfide-N-methyl-2-pyrrolidinone mixed solvent at room temperature and ESR parameters of their extracts and residues. Energy & Fuels, 1990, 4, 452-455.	5.1	55
147	Characterization of the extracts and residues from CS2-N-methyl-2-pyrrolidinone mixed solvent extraction. Fuel, 1989, 68, 1588-1593.	6.4	91
148	Effect of extractable substances on coal dissolution. Use of a carbon disulfide-N-methyl-2-pyrrolidinone mixed solvent as an extraction solvent for dissolution reaction products. Energy & Fuels, 1989, 3, 575-579.	5.1	24
149	Extraction of coals with CS2-N-methyl-2-pyrrolidinone mixed solvent at room temperature. Fuel, 1988, 67, 1639-1647.	6.4	286
150	Simulation of heavy oil spray combustion.. Kagaku Kogaku Ronbunshu, 1988, 14, 272-280.	0.3	2