Naoto Tsubouchi

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1550652/publications.pdf

Version: 2024-02-01

100 papers	2,016 citations	257357 24 h-index	276775 41 g-index
100 all docs	100 docs citations	100 times ranked	1680 citing authors

#	Article	IF	Citations
1	Evaluation of mercury form in iron ore through sequential leaching and temperature-programmed heat treatment methods. Fuel, 2022, 308, 121953.	3.4	0
2	Evolution of Mercury from Iron Ores in Temperature-Programmed Heat Treatments. ISIJ International, 2022, 62, 20-28.	0.6	1
3	Influence of ammonia treatment on the CO2 adsorption of activated carbon. Journal of Environmental Chemical Engineering, 2022, 10, 107273.	3.3	15
4	Preparation and evaluation of activated carbon from low-rank coal via alkali activation and its fundamental CO₂ adsorption capacity at ambient temperature under pure pressurized CO₂. Reaction Chemistry and Engineering, 2022, 7, 1429-1446.	1.9	3
5	Preparation of coke from biomass char modified by vapour deposition of tar generated during pyrolysis of woody biomass. Ironmaking and Steelmaking, 2022, 49, 646-657.	1.1	2
6	Removal of hydrogen chloride from simulated coal gasification fuel gases using honeycomb-supported natural soda ash. Fuel, 2022, 317, 122231.	3.4	3
7	Production of High-Strength Coke from Low-Quality Coals Chemically Modified with Thermoplastic Components. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2021, 107, 15-23.	0.1	0
8	Influence of Additive Amount and Heating Conditions on the Strength of Coke Prepared from Non-Caking Coal. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2021, 107, 35-43.	0.1	0
9	Mercury (II) ion adsorption performance of Cl-loaded carbonaceous material prepared by chlorination of pyrolyzed rice husk char. Journal of Cleaner Production, 2021, 305, 127176.	4.6	5
10	Strength and Gasification Reactivity of Coke Prepared by Blending a Ca/C Composite and Coal. ISIJ International, 2021, 61, 2200-2210.	0.6	1
11	Influence of Heating Conditions on the Strength of Coke Produced from Slightly-Caking Coal Containing Chemically-Loaded Thermoplastic Components. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2021, 107, 24-34.	0.1	1
12	Behavior of mercury release from iron ores during temperature-programmed heat treatment in air. Environmental Science and Pollution Research, 2021, 28, 66496-66500.	2.7	0
13	Quantum chemical study on adsorption of hydrogen chloride on Zn-doped carbon materials. Environmental Technology and Innovation, 2020, 19, 100883.	3.0	1
14	Removal of hydrogen chloride gas using honeycomb-supported natural soda ash. Chemical Engineering Research and Design, 2020, 156, 138-145.	2.7	6
15	Effect of the electronic state on low-rank coals with Ca2+ ion exchange. Journal of Molecular Structure, 2020, 1218, 128544.	1.8	2
16	Electronic State of Low-Rank Coals with Exchanged Sodium Cations. ACS Omega, 2020, 5, 1688-1697.	1.6	1
17	Separation of valuable elements from steel making slag by chlorination. Resources, Conservation and Recycling, 2020, 158, 104815.	5.3	14
18	Production of high-strength and low-gasification reactivity coke from low-grade carbonaceous materials by vapor deposition of tar. Fuel Processing Technology, 2020, 203, 106384.	3.7	3

#	Article	IF	Citations
19	Production of Silicone Tetrachloride from Rice Husk by Chlorination and Performance of Mercury Adsorption from Aqueous Solution of the Chlorinated Residue. ACS Omega, 2020, 5, 29110-29120.	1.6	5
20	Thermal Properties of Carbon-Containing Iron Ore Composite Prepared by Vapor Deposition of Tar for Limonite. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 2259-2272.	1.0	3
21	Preparation of pelletized coke by co-carbonization of caking coal and pyrolyzed char modified with tar produced during pyrolysis of woody biomass. Fuel Processing Technology, 2019, 193, 328-337.	3.7	17
22	Removal of gangue components from low-grade iron ore by hydrothermal treatment. Hydrometallurgy, 2019, 190, 105159.	1.8	6
23	Upgrading Low-Grade Iron Ore through Gangue Removal by a Combined Alkali Roasting and Hydrothermal Treatment. ACS Omega, 2019, 4, 19723-19734.	1.6	9
24	Gasification of carbon/carbon composite prepared from pyrolyzed char of low-grade coke and low-rank coal. Powder Technology, 2019, 355, 782-792.	2.1	10
25	Formation of surface chlorine species by low temperature reaction of HCl with metal-doped carbon. Fuel, 2019, 246, 51-59.	3.4	15
26	Influence of Heating Conditions on the Strength of Coke Produced from Slightly-Caking Coal Containing Chemically-Loaded Thermoplastic Components. ISIJ International, 2019, 59, 1427-1436.	0.6	4
27	Production of High-Strength Coke from Low-Quality Coals Chemically Modified with Thermoplastic Components. ISIJ International, 2019, 59, 1396-1403.	0.6	7
28	Evolution profile of gases during coal carbonization and relationship between their amounts and the fluidity or coke strength. Fuel, 2019, 237, 735-744.	3.4	15
29	Influence of Additive Amount and Heating Conditions on the Strength of Coke Prepared from Non-Caking Coal. ISIJ International, 2019, 59, 1419-1426.	0.6	2
30	Steam Gasification of Low-Rank Coal with a Nanoscale Ca/Na Composite Catalyst Prepared by Ion Exchange. Energy & Fuels, 2018, 32, 226-232.	2.5	10
31	Influence of Inherently Present Oxygen-Functional Groups on Coal Fluidity and Coke Strength. Energy & Fuels, 2018, 32, 1657-1664.	2.5	22
32	Production of activated carbon from peat by with natural soda ash and effect of nitrogen addition on the development of surface area. Fuel Processing Technology, 2018, 176, 76-84.	3.7	19
33	Fate of Nitrogen and Sulfur during Reduction Process of Carbon-containing Pellet Prepared by Vapor Deposition of Gaseous-Tar and the Influences of the Hetero Elements on the Reduction Behavior and Crushing Strength. ISIJ International, 2018, 58, 460-468.	0.6	5
34	Fate of the Chlorine in Coal in the Heating Process. ISIJ International, 2018, 58, 227-235.	0.6	13
35	Removal of Organic Sulfur in Hydrocarbon Liquid Model Fuel by Ni-Loaded Carbon Prepared from Lignite. Energy & Fuels, 2018, 32, 12328-12336.	2.5	2
36	Catalytic effect of ion-exchanged calcium on steam gasification of low-rank coal with a circulating fluidized bed reactor. Fuel, 2018, 234, 406-413.	3.4	17

#	Article	IF	Citations
37	Low-Temperature Reactions of HCl with Metal-Doped Carbon. Energy & Fuels, 2018, 32, 6970-6977.	2.5	4
38	Influence of tarry material deposition on low-strength cokes or pyrolyzed chars of low rank coals on the strength. Fuel, 2018, 232, 780-790.	3.4	10
39	Investigation of strength and reduction reactivity during heat treatment in simulated-experimental blast furnace of carbon-containing pellet prepared by vapor deposition of tar to cold-bonded pellet with large particle size. Fuel Processing Technology, 2018, 176, 21-32.	3.7	14
40	Some factors influencing the fluidity of coal blends: Particle size, blend ratio and inherent oxygen species. Fuel Processing Technology, 2017, 159, 67-75.	3.7	22
41	Steam Gasification of Low-Rank Coals with Ion-Exchanged Sodium Catalysts Prepared Using Natural Soda Ash. Energy & Fuels, 2017, 31, 2565-2571.	2.5	11
42	Coprocessing of Pyrolytic Nitrogen Removal of Low-Rank Coals and Reduction of Limonite Ore. Energy & Fuels, 2017, 31, 3885-3891.	2.5	4
43	Catalytic Performance of Limonite Ores in the Decomposition of Model Compounds of Biomass-Derived Tar. Energy & Fuels, 2017, 31, 3898-3904.	2.5	7
44	Preparation of a Carbon-Containing Pellet with High Strength and High Reactivity by Vapor Deposition of Tar to a Cold-Bonded Pellet. Energy & Fuels, 2017, 31, 8877-8885.	2.5	11
45	Removal of Hydrogen Sulfide in Simulated Coke Oven Gas with Low-Grade Iron Ore. Energy & Fuels, 2017, 31, 8087-8094.	2.5	11
46	Removal of Hydrogen Sulfide and Ammonia by Goethite-Rich Limonite in the Coexistence of Coke Oven Gas Components. ISIJ International, 2017, 57, 435-442.	0.6	5
47	Fate of the Chlorine in Coal in the Heating Process. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2017, 103, 443-450.	0.1	0
48	Significant Evolution of Hydrogen Fluoride from Coal Chars after Apparently Complete Release of Carbon Dioxide. Energy & Fuels, 2016, 30, 4381-4383.	2.5	2
49	Preparation of Carbon-Containing Iron Ore with Enhanced Crushing Strength from Limonite by Impregnation and Vapor Deposition of Tar Recovered from Coke Oven Gas. Energy & Fuels, 2016, 30, 6233-6239.	2.5	26
50	Reactions of Hydrogen Chloride with Carbonaceous Materials and the Formation of Surface Chlorine Species. Energy & Fuels, 2016, 30, 2320-2327.	2.5	19
51	Reduction behavior and crushing strength of carbon-containing pellet prepared from COG tar. Fuel Processing Technology, 2016, 142, 287-295.	3.7	18
52	Role of nitrogen in pore development in activated carbon prepared by potassium carbonate activation of lignin. Applied Surface Science, 2016, 371, 301-306.	3.1	68
53	Reduction Rate and Crushing Strength of a Carbon-Containing Pellet Prepared by the Impregnation Method of COG Tar. Energy & Fuels, 2016, 30, 2102-2110.	2.5	10
54	Influence of Inherent Oxygen Species on the Fluidity of Coal during Carbonization. Energy & Fuels, 2016, 30, 2095-2101.	2.5	27

#	Article	IF	Citations
55	Catalytic Decomposition of Pyridine with Goethite-Rich Limonite in the Coexistence of Fuel Gas or Coke Oven Gas Components. ISIJ International, 2016, 56, 1132-1137.	0.6	7
56	Formation of molecular nitrogen and hydrogen sulfide during highâ€temperature pyrolysis of coals. Asia-Pacific Journal of Chemical Engineering, 2015, 10, 154-162.	0.8	2
57	Reduction and Nitriding Behavior of Hematite with Ammonia. ISIJ International, 2015, 55, 736-741.	0.6	9
58	Catalytic decomposition of pyridine gas with fine particles of metallic iron formed from limonite. Applied Catalysis A: General, 2015, 499, 133-138.	2.2	9
59	High catalytic performance of magnesium cations-added limonite in the decomposition of ammonia in a simulated syngas-rich fuel gas. Journal of Molecular Catalysis A, 2015, 407, 75-80.	4.8	15
60	Chemical Characterization of Unburned Carbon in Coal Fly Ashes by Use of TPD/TPO and LRS Methods. Environmental Science & Technology, 2015, 49, 5189-5194.	4.6	3
61	Reduction behavior and crushing strength of carbon-containing iron ore sinters prepared from tar recovered from coke oven gas. Fuel Processing Technology, 2015, 138, 704-713.	3.7	20
62	Steam gasification of Indonesian subbituminous coal with calcium carbonate as a catalyst raw material. Fuel Processing Technology, 2015, 129, 91-97.	3.7	60
63	Fate of Boron and Selenium during Pulverized Coal Combustion. Kagaku Kogaku Ronbunshu, 2015, 41, 340-349.	0.1	0
64	Effects of Solid Residence Time and Inherent Metal Cations on the Fate of the Nitrogen in Coal during Rapid Pyrolysis. Energy & Fuels, 2014, 28, 5721-5728.	2.5	13
65	Synthesis of BaTiO₃ nanoparticles from TiO₂-coated BaCO₃ particles derived using a wet-chemical method. Journal of Asian Ceramic Societies, 2014, 2, 68-76.	1.0	7
66	Behavior of boron release and change in the occurrence mode of boron during fixed-bed pyrolysis of coals. Fuel, 2014, 130, 54-59.	3.4	4
67	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.	0.6	19
68	Adsorption Desulfurization of Organic Sulfur Compounds in Model Fuels by Ni-Loaded Carbon. Kagaku Kogaku Ronbunshu, 2014, 40, 56-64.	0.1	2
69	The fate of sulfur in coal during carbonization and its effect on coal fluidity. International Journal of Coal Geology, 2013, 120, 50-56.	1.9	23
70	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
71	Selective Recovery of Rare Earth Elements from Dy containing NdFeB Magnets by Chlorination. ACS Sustainable Chemistry and Engineering, 2013, 1, 655-662.	3.2	45
72	Evolution of Hydrogen Chloride and Change in the Chlorine Functionality during Pyrolysis of Argonne Premium Coal Samples. Energy & Fuels, 2013, 27, 87-96.	2.5	43

#	Article	IF	Citations
73	Fate of Coal-Bound Nitrogen during Carbonization of Caking Coals. Energy & Fuels, 2013, 27, 7330-7335.	2.5	11
74	Chlorine Release during Fixed-Bed Gasification of Coal Chars with Carbon Dioxide. Energy & Fuels, 2013, 27, 5076-5082.	2.5	19
75	Functional Forms of Nitrogen and Sulfur in Coals and Fate of Heteroatoms during Coal Carbonization. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2012, 98, 161-169.	0.1	7
76	Iron-catalyzed nitrogen removal as N2 from PAN-derived activated carbon. Applied Catalysis B: Environmental, 2012, 111-112, 614-620.	10.8	12
77	Catalytic decomposition of nitrogen-containing heterocyclic compounds with highly dispersed iron nanoparticles on carbons. Journal of Molecular Catalysis A, 2012, 356, 14-19.	4.8	14
78	Chemical forms of the fluorine and carbon in fly ashes recovered from electrostatic precipitators of pulverized coal-fired plants. Fuel, 2011, 90, 376-383.	3.4	28
79	Chemical characterization of dust particles recovered from bag filters of electric arc furnaces for steelmaking: Some factors influencing the formation of hexachlorobenzene. Journal of Hazardous Materials, 2010, 183, 116-124.	6.5	42
80	Leaching Behavior of the Boron and Fluorine in Fly Ashes Formed in Pulverized Coal Combustion. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2010, 89, 1166-1172.	0.2	2
81	Recent progress in Japan on hot gas cleanup of hydrogen chloride, hydrogen sulfide and ammonia in coal-derived fuel gas. Powder Technology, 2009, 190, 340-347.	2.1	99
82	Sulfur tolerance of an inexpensive limonite catalyst for high temperature decomposition of ammonia. Powder Technology, 2008, 180, 184-189.	2.1	21
83	Nitrogen chemistry in coal pyrolysis: Catalytic roles of metal cations in secondary reactions of volatile nitrogen and char nitrogen. Fuel Processing Technology, 2008, 89, 379-390.	3.7	72
84	Catalytic Performance of Limonite in the Decomposition of Ammonia in the Coexistence of Typical Fuel Gas Components Produced in an Air-Blown Coal Gasification Process. Energy & Fuels, 2007, 21, 3063-3069.	2.5	30
85	Properties of Dust Particles Sampled from Windboxes of an Iron Ore Sintering Plant: Surface Structures of Unburned Carbon. ISIJ International, 2006, 46, 1020-1026.	0.6	21
86	Catalytic decomposition of ammonia gas with metal cations present naturally in low rank coals. Fuel, 2005, 84, 1957-1967.	3.4	55
87	High Catalytic Performance of Fine Particles of Metallic Iron Formed from Limonite in the Decomposition of a Low Concentration of Ammonia. Catalysis Letters, 2005, 105, 203-208.	1.4	48
88	Functional Forms of Carbon and Chlorine in Dust Samples Formed in the Sintering Process of Iron Ores. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2005, 91, 751-756.	0.1	13
89	Effect of Nitrogen-Containing Compounds on Polychlorinated Dibenzo-p-dioxin/Dibenzofuran Formation through de Novo Synthesis. Environmental Science & Technology, 2005, 39, 795-799.	4.6	42
90	Formation of Hydrogen Chloride during Temperature-Programmed Pyrolysis of Coals with Different Ranks. Energy & Fuels, 2005, 19, 554-560.	2.5	34

#	Article	IF	Citations
91	Decomposition of ammonia with iron and calcium catalysts supported on coal chars. Fuel, 2004, 83, 685-692.	3.4	97
92	Effect of alkaline earth metals on N2 formation during fixed bed pyrolysis of a low rank coal. Fuel Processing Technology, 2004, 85, 1039-1052.	3.7	9
93	Novel utilization of mesoporous molecular sieves as supports of cobalt catalysts in Fischerâ€“Tropsch synthesis. Catalysis Today, 2004, 89, 419-429.	2.2	77
94	Several Distinct Types of HCl Evolution during Temperature-Programmed Pyrolysis of High-Rank Coals with Almost the Same Carbon Contents. Energy & Fuels, 2004, 18, 1605-1606.	2.5	15
95	Carbon Crystallization during High-Temperature Pyrolysis of Coals and the Enhancement by Calcium. Energy & Fuels, 2003, 17, 1119-1125.	2.5	138
96	Nitrogen Release from Low Rank Coals during Rapid Pyrolysis with a Drop Tube Reactor. Energy & Fuels, 2003, 17, 940-945.	2.5	26
97	Fischerâ€“Tropsch Synthesis with Cobalt Catalysts Supported on Mesoporous Silica for Efficient Production of Diesel Fuel Fraction. Energy & Fuels, 2003, 17, 804-809.	2.5	55
98	Nitrogen release during high temperature pyrolysis of coals and catalytic role of calcium in N2 formation. Fuel, 2002, 81, 2335-2342.	3.4	73
99	Formation of N2 during pyrolysis of Ca-loaded coals. Fuel, 2002, 81, 1423-1431.	3.4	33
100	Enhancement of N2Formation from the Nitrogen in Carbon and Coal by Calcium. Energy & Fuels, 2001, 15, 158-162.	2.5	58