

Yoshihiko Ninomiya

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

106
papers

1,796
citations

25
h-index

37
g-index

109
ext. papers

2,033
ext. citations

5.3
avg, IF

4.8
L-index

#	Paper	IF	Citations
106	Effect of the optimal combination of bituminous coal with high biomass content on particulate matter (PM) emissions during co-firing. <i>Fuel</i> , 2022 , 316, 123244	7.1	0
105	Clinker Formation Behavior in a Co-current Up-flowing Moving Bed Gasifier Fueled with Japanese Cedar Pellets. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2021 , 100, 236-244	0.5	1
104	Effect of Aluminum Oxide Additives for Suppressing Clinker Formation in a Co-current Up-flowing Moving Bed Gasifier Fueled by Japanese Cedar Pellets. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2021 , 100, 245-253	0.5	1
103	Reaction mechanisms underpinning the removal of Cs from simulated Cs-contaminated ash during thermal treatment with NaCl or KCl. <i>Fuel</i> , 2021 , 289, 119905	7.1	0
102	Do FeCl and FeCl/CaO conditioners change pyrolysis and incineration performances, emissions, and elemental fates of textile dyeing sludge?. <i>Journal of Hazardous Materials</i> , 2021 , 413, 125334	12.8	12
101	Use of thermal treatment with CaCl and CaO to remove Cs in the soil collected from the area near the Fukushima Daiichi Nuclear Power Plant. <i>Journal of Hazardous Materials</i> , 2021 , 401, 123364	12.8	4
100	Prediction of ash-deposition characteristics in co-combustion conditions with CCSEM. <i>The Proceedings of the International Conference on Power Engineering (ICOPE)</i> , 2021 , 2021.15, 2021-0129		
99	Characteristics of iron and sulphur in high-ash lignite (Pakistani lignite) and their influence on long-term T23 tube corrosion under super-critical coal-fired boiler conditions. <i>Fuel</i> , 2020 , 264, 116855	7.1	14
98	Kinetic Study of Long-Term T23 Tube Corrosion upon Low-Rank Coal Ash Deposition under Oxy-Fuel Combustion Conditions. <i>Energy & Fuels</i> , 2019 , 33, 10209-10217	4.1	1
97	Synergistic Mechanisms of CaCl ₂ and CaO on the Vaporization of Cs from Cs-Doped Ash during Thermal Treatment. <i>Energy & Fuels</i> , 2018 , 32, 5433-5442	4.1	2
96	Effect of kaolin on ash partitioning during combustion of a low-rank coal in O ₂ /CO ₂ atmosphere. <i>Fuel</i> , 2018 , 222, 538-543	7.1	8
95	Occurrence and characteristics of abundant fine included mineral particles in Collie coal of Western Australia. <i>Fuel</i> , 2018 , 216, 53-60	7.1	5
94	The effect of ceria content in nickel/beria composite anode catalysts on the discharge performance for solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 2394-2401	6.7	4
93	Partitioning of Lead and Lead Compounds under Gasification-Like Conditions. <i>Energy & Fuels</i> , 2018 , 32, 651-657	4.1	2
92	Influence of methane fuel on terminal voltage of a Ni-GDC anode electrode. <i>The Proceedings of the National Symposium on Power and Energy Systems</i> , 2018 , 2018.23, C121	0	
91	Enhancement of Cs vaporization from simulated granular ash through thermal treatment in N ₂ atmosphere with the addition of a mixture of CaCl ₂ and CaO. <i>Fuel</i> , 2018 , 214, 409-415	7.1	6
90	Low-temperature trace light-tar reforming in biomass syngas by atmospheric hydrogenation and hydrogenolysis. <i>Fuel Processing Technology</i> , 2018 , 181, 304-310	7.2	3

89	Spatial distribution of Cr-bearing species on the corroded tube surface characterised by synchrotron X-ray fluorescence (SXRF) mapping and micro-XANES: exposure of tubes in oxy-firing flue gas. <i>Journal of Materials Science</i> , 2018 , 53, 11791-11812	4.3	
88	Ignitability and combustibility of Yallourn pyrolysis char under simulated blast furnace conditions. <i>Fuel Processing Technology</i> , 2017 , 156, 113-123	7.2	13
87	High-throughput optimization of near-infrared-transparent Mo-doped In ₂ O ₃ thin films with high conductivity by combined use of atmospheric-pressure mist chemical-vapor deposition and sputtering. <i>Thin Solid Films</i> , 2017 , 626, 46-54	2.2	17
86	Role of CaCl ₂ and MgCl ₂ addition in the vaporization of water-insoluble cesium from incineration ash during thermal treatment. <i>Chemical Engineering Journal</i> , 2017 , 323, 114-123	14.7	15
85	High-temperature tube corrosion upon the interaction with Victorian brown coal fly ash under the oxy-fuel combustion condition. <i>Proceedings of the Combustion Institute</i> , 2017 , 36, 3941-3948	5.9	11
84	Zinc nitride as a potential high-mobility transparent conductor. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017 , 214, 1600472	1.6	8
83	High-Mobility Transparent p-Type CuI Semiconducting Layers Fabricated on Flexible Plastic Sheets: Toward Flexible Transparent Electronics. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700298	6.4	42
82	Spatial distribution of chromium on the corroded tube surface characterised by synchrotron X-ray fluorescence (SXRF) mapping and EXANES: Co-existence of Ca-rich ash deposits and oxy-firing flue gas. <i>Fuel Processing Technology</i> , 2017 , 167, 31-42	7.2	1
81	Conduction-band effective mass and bandgap of ZnSnN earth-abundant solar absorber. <i>Scientific Reports</i> , 2017 , 7, 14987	4.9	22
80	Influence of gaseous SO ₂ and sulphate-bearing ash deposits on the high-temperature corrosion of heat exchanger tube during oxy-fuel combustion. <i>Fuel Processing Technology</i> , 2017 , 167, 193-204	7.2	15
79	Effect of silica additive on the high-temperature fireside tube corrosion during the air-firing and oxy-firing of lignite (Xinjiang coal) [Characteristics of bulk and cross-sectional surfaces for the tubes. <i>Fuel</i> , 2017 , 187, 68-83	7.1	14
78	Vaporization Behavior of Cs, K, and Na in Cs-Containing Incineration Bottom Ash during Thermal Treatment with CaCl ₂ and CaO. <i>Energy & Fuels</i> , 2017 , 31, 14045-14052	4.1	5
77	Influence of Inherent Moisture on the Formation of Particulate Matter during Low-Rank Coal Combustion. <i>Journal of Chemical Engineering of Japan</i> , 2017 , 50, 351-357	0.8	2
76	Influence of Ni-CeO ₂ composition as anode catalyst in a SOFC on discharge performance. <i>The Proceedings of the National Symposium on Power and Energy Systems</i> , 2017 , 2017.22, D131	0	
75	Development of thermal spraying materials through several corrosion tests for heat exchanger tube of incinerators. <i>Fuel Processing Technology</i> , 2016 , 141, 216-224	7.2	15
74	Current Issues of Ash Deposition and Corrosion on Waste-to-Energy Plant. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2016 , 95, 1089-1104	0.5	1
73	Comparative study of electron transport mechanisms in epitaxial and polycrystalline zinc nitride films. <i>Journal of Applied Physics</i> , 2016 , 119, 025104	2.5	23
72	Study on the species of heavy metals in MSW incineration fly ash and their leaching behavior. <i>Fuel Processing Technology</i> , 2016 , 152, 108-115	7.2	89

71	Ignitability and Combustibility of Yallourn Pyrolysis Char Blended with Pulverized Coal Injection Coal under Simulated Blast Furnace Conditions. <i>Energy & Fuels</i> , 2016 , 30, 1858-1868	4.1	13
70	Influence of Steam, Hydrogen Chloride, and Hydrogen Sulfide on the Release and Condensation of Cadmium in Gasification. <i>Energy & Fuels</i> , 2016 ,	4.1	5
69	Influence of Steam, Hydrogen Chloride, and Hydrogen Sulfide on the Release and Condensation of Zinc in Gasification. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 6911-6921	3.9	9
68	Ni-CeO ₂ Nano-composite Anode for Solid Oxide Fuel Cell with ScSZ Electrolyte for Biomass Gasification Fuel Cell Power Generation System. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2016 , 95, 922-929	0.5	2
67	Truly Transparent p-Type β -CuI Thin Films with High Hole Mobility. <i>Chemistry of Materials</i> , 2016 , 28, 4971-4981	9.8	110
66	Vaporization Mechanisms of Water-Insoluble Cs in Ash During Thermal Treatment with Calcium Chloride Addition. <i>Environmental Science & Technology</i> , 2016 , 50, 13328-13334	10.3	17
65	Oxygen-Doped Zinc Nitride as a High-Mobility Nitride-Based Semiconductor. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 5327-5333	3.8	34
64	p- to n-Type Conversion and Nonmetal/Metal Transition of Lithium-Inserted Cu ₃ N Films. <i>Chemistry of Materials</i> , 2015 , 27, 8076-8083	9.6	32
63	Condensation Behavior of Heavy Metal Vapors upon Flue Gas Cooling in Oxy-fuel versus Air Combustion. <i>Journal of Chemical Engineering of Japan</i> , 2015 , 48, 450-457	0.8	
62	Pilot-scale experimental and CFD modeling investigations of oxy-fuel combustion of Victorian brown coal. <i>Fuel</i> , 2015 , 144, 111-120	7.1	31
61	Transparent conducting zinc nitride films. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 05FX01	1.4	9
60	Effect of H ₂ S concentration in gasified gas on the microstructure and leaching properties of coal slag. <i>Fuel</i> , 2014 , 116, 812-819	7.1	5
59	Rheological evolution and crystallization response of molten coal ash slag at high temperatures. <i>AIChE Journal</i> , 2013 , 59, 2726-2742	3.6	20
58	Effect of inorganic particulates on the condensation behavior of lead and zinc vapors upon flue gas cooling. <i>Proceedings of the Combustion Institute</i> , 2013 , 34, 2821-2829	5.9	21
57	Elucidating the mechanism of Cr(VI) formation upon the interaction with metal oxides during coal oxy-fuel combustion. <i>Journal of Hazardous Materials</i> , 2013 , 261, 260-8	12.8	37
56	A microscopic study of the precipitation of metallic iron in slag from iron-rich coal during high temperature gasification. <i>Fuel</i> , 2013 , 103, 101-110	7.1	20
55	Effect of magnesium additives on PM _{2.5} reduction during pulverized coal combustion. <i>Fuel Processing Technology</i> , 2013 , 105, 188-194	7.2	20
54	Effect of HCl, SO ₂ and H ₂ O on the condensation of heavy metal vapors in flue gas cooling section. <i>Fuel Processing Technology</i> , 2013 , 105, 181-187	7.2	27

53	Effect of coal blending on the leaching characteristics of arsenic in fly ash from fluidized bed coal combustion. <i>Fuel Processing Technology</i> , 2013 , 106, 769-775	7.2	26
52	Condensation Behavior of Heavy Metals during Oxy-fuel Combustion: Deposition, Species Distribution, and Their Particle Characteristics. <i>Energy & Fuels</i> , 2013 , 27, 5640-5652	4.1	17
51	Effect of Coal Blending on the Leaching Characteristics of Arsenic and Selenium in Fly Ash from Fluidized Bed Coal Combustion 2013 , 569-577		
50	Use of synchrotron XANES and Cr-doped coal to further confirm the vaporization of organically bound Cr and the formation of chromium(VI) during coal oxy-fuel combustion. <i>Environmental Science & Technology</i> , 2012 , 46, 3567-73	10.3	37
49	Synchrotron-based XANES speciation of chromium in the oxy-fuel fly ash collected from lab-scale drop-tube furnace. <i>Environmental Science & Technology</i> , 2011 , 45, 6640-6	10.3	36
48	Effect of Coal Drying on the Behavior of Inorganic Species during Victorian Brown Coal Pyrolysis and Combustion. <i>Energy & Fuels</i> , 2011 , 25, 2764-2771	4.1	14
47	Influence of woody biomass (cedar chip) addition on the emissions of PM10 from pulverised coal combustion. <i>Fuel</i> , 2011 , 90, 77-86	7.1	40
46	Experimental investigation of the combustion of bituminous coal in air and O ₂ /CO ₂ mixtures: 2. Variation of the transformation behaviour of mineral matter with bulk gas composition. <i>Fuel</i> , 2011 , 90, 1361-1369	7.1	18
45	Ash partitioning during the oxyfuel combustion of lignite and its dependence on the recirculation of flue gas impurities (H ₂ O, HCl and SO ₂). <i>Fuel</i> , 2011 , 90, 2207-2216	7.1	28
44	An investigation on the heterogeneous nature of mineral matters in Assam (India) coal by CCSEM technique. <i>Fuel Processing Technology</i> , 2011 , 92, 1068-1077	7.2	18
43	Evolution of organically bound metals during coal combustion in air and O ₂ /CO ₂ mixtures: A case study of Victorian brown coal. <i>Proceedings of the Combustion Institute</i> , 2011 , 33, 2795-2802	5.9	13
42	Effects of HCl, SO ₂ and H ₂ O in flue gas on the condensation behavior of Pb and Cd vapors in the cooling section of municipal solid waste incineration. <i>Proceedings of the Combustion Institute</i> , 2011 , 33, 2787-2793	5.9	40
41	Effects of Mineral Transformations on the Reduction of PM _{2.5} during the Combustion of Coal Blends. <i>Advanced Materials Research</i> , 2011 , 356-360, 1306-1314	0.5	1
40	Effect of HCl/SO ₂ /H ₂ O on the Deposition of Heavy Metal Vapors in the Cooling Section of an Incineration Plant. <i>Journal of Chemical Engineering of Japan</i> , 2010 , 43, 713-719	0.8	6
39	Evaluation of a Mg-Based Additive for Particulate Matter (PM) _{2.5} Reduction during Pulverized Coal Combustion <i>Energy & Fuels</i> , 2010 , 24, 199-204	4.1	24
38	Experimental Investigation of the Combustion of Bituminous Coal in Air and O ₂ /CO ₂ Mixtures: 1. Particle Imaging of the Combustion of Coal and Char. <i>Energy & Fuels</i> , 2010 , 24, 4803-4811	4.1	19
37	Characterization of combustion-derived individual fine particulates by computer-controlled scanning electron microscopy. <i>AIChE Journal</i> , 2009 , 55, 3005-3016	3.6	9
36	Effects of coal blending on the reduction of PM ₁₀ during high-temperature combustion 2. A coalescence-fragmentation model. <i>Fuel</i> , 2009 , 88, 150-157	7.1	24

35	Kinetic study of chlorine behavior in the waste incineration process. <i>Proceedings of the Combustion Institute</i> , 2009 , 32, 335-342	5.9	10
34	Mineral interactions and their impacts on the reduction of PM10 emissions during co-combustion of coal with sewage sludge. <i>Proceedings of the Combustion Institute</i> , 2009 , 32, 2701-2708	5.9	16
33	Effect of Additives on the Reduction of PM2.5 Emissions during Pulverized Coal Combustion□ <i>Energy & Fuels</i> , 2009 , 23, 3412-3417	4.1	35
32	Evaluation of nanosized additives for environmental pollutant reduction during solid fuel combustion. <i>Hosokawa Powder Technology Foundation ANNUAL REPORT</i> , 2009 , 17, 37-42	0	
31	Study of Heavy Metals Condensation by Considering Variant Conditions of Incinerator Cooling Zone 2009 , 434-440		
30	Behavior of Chlorine in HCl/H ₂ O/O ₂ /CO ₂ /N ₂ Reaction System. <i>Journal of Chemical Engineering of Japan</i> , 2008 , 41, 519-524	0.8	2
29	Elution of Ti during solvent extraction of coal and the transformation of eluted Ti upon combustion. <i>AIChE Journal</i> , 2008 , 54, 1646-1655	3.6	3
28	Properties of water-soluble and insoluble particulate matter emitted from dewatered sewage sludge incineration in a pilot-scale ash melting furnace. <i>Fuel</i> , 2008 , 87, 964-973	7.1	8
27	Coordination structures of organically bound paramagnetic metals in coal and their transformation upon solvent extraction. <i>Fuel</i> , 2008 , 87, 2628-2640	7.1	15
26	Interactions among Inherent Minerals during Coal Combustion and Their Impacts on the Emission of PM10. 2. Emission of Submicrometer-Sized Particles. <i>Energy & Fuels</i> , 2007 , 21, 766-777	4.1	18
25	Formation of Submicron Particulates (PM1) from the Oxygen-Enriched Combustion of Dried Sewage Sludge and Their Properties. <i>Energy & Fuels</i> , 2007 , 21, 88-98	4.1	8
24	Interactions among Inherent Minerals during Coal Combustion and Their Impacts on the Emission of PM10. 1. Emission of Micrometer-Sized Particles. <i>Energy & Fuels</i> , 2007 , 21, 756-765	4.1	28
23	Transformation of phosphorus during combustion of coal and sewage sludge and its contributions to PM10. <i>Proceedings of the Combustion Institute</i> , 2007 , 31, 2847-2854	5.9	30
22	Investigation of a direct melting dehydrated sewage sludge pilot plant. <i>International Journal of Environment and Pollution</i> , 2007 , 31, 371	0.7	
21	Computer-Controlled Scanning Electron Microscopy (CCSEM) Investigation on the Heterogeneous Nature of Mineral Matter in Six Typical Chinese Coals□ <i>Energy & Fuels</i> , 2007 , 21, 468-476	4.1	35
20	?????????????????????????????. <i>Hosokawa Powder Technology Foundation ANNUAL REPORT</i> , 2007 , 15, 140-141	0	
19	Characteristics of slag, fly ash and deposited particles during melting of dewatered sewage sludge in a pilot plant. <i>Journal of Environmental Management</i> , 2006 , 79, 163-72	7.9	12
18	Fundamental Behaviors in Combustion of Raw Sewage Sludge. <i>Energy & Fuels</i> , 2006 , 20, 77-83	4.1	36

17	Occurrence of Inorganic Elements in Condensed Volatile Matter Emitted from Coal Pyrolysis and Their Contributions to the Formation of Ultrafine Particulates during Coal Combustion. <i>Energy & Fuels</i> , 2006 , 20, 1482-1489	4.1	38
16	Emission of suspended PM10 from laboratory-scale coal combustion and its correlation with coal mineral properties. <i>Fuel</i> , 2006 , 85, 194-203	7.1	60
15	Selective Synthesis of the Iminophosphoranes and Phosphorus Ylides from (Alkylamino)phosphonium Salts. Comparative Study of Electrochemical Reduction with the Base Method. <i>Electrochemistry</i> , 2005 , 73, 798-806	1.2	2
14	Analysis of Coal Ash Build up on Ceramic Filters in a Hot Gas Filtration System. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2005 , 84, 359-365	0.5	1
13	Sintering Behavior of Coal Ash Build up on Ceramic Filters in a Hot Gas Filtration System. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2005 , 84, 767-772	0.5	
12	Partitioning of sulfur and calcium during pyrolysis and combustion of high sulfur coals impregnated with calcium acetate as the desulfurization sorbent. <i>Fuel</i> , 2004 , 83, 1039-1053	7.1	15
11	Transformation of mineral and emission of particulate matters during co-combustion of coal with sewage sludge. <i>Fuel</i> , 2004 , 83, 751-764	7.1	56
10	Combustion and DeSOx behavior of high-sulfur coals added with calcium acetate produced from biomass pyrolytic acid. <i>Fuel</i> , 2004 , 83, 2123-2131	7.1	8
9	Influence of coal particle size on particulate matter emission and its chemical species produced during coal combustion. <i>Fuel Processing Technology</i> , 2004 , 85, 1065-1088	7.2	86
8	Combustibility of dried sewage sludge and its mineral transformation at different oxygen content in drop tube furnace. <i>Fuel Processing Technology</i> , 2004 , 85, 983-1011	7.2	20
7	Fate of Alkali Elements during Pyrolysis and Combustion of Chinese Coals.. <i>Journal of Chemical Engineering of Japan</i> , 2003 , 36, 759-768	0.8	6
6	In situ desulfurization during combustion of high-sulfur coals added with sulfur capture sorbents. <i>Fuel</i> , 2003 , 82, 255-266	7.1	25
5	CCSEM analysis of ash from combustion of coal added with limestone. <i>Fuel</i> , 2002 , 81, 1499-1508	7.1	47
4	Correlation Analyses between the Mobilities on Paper Electrophoresis of Alkylsubstituted Phosphonium Ions (RR ₃ P ⁺). <i>Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal</i> , 2001 , 2001, 91-95		
3	Theoretical study on the thermal decomposition of pyridine. <i>Fuel</i> , 2000 , 79, 449-457	7.1	36
2	Nonlinear Phenomena. Effects of Temperature, O ₂ Partial Pressure, Initial CaS Content and Particle Diameter on Oxidation Reaction of CaS Particles.. <i>Kagaku Kogaku Ronbunshu</i> , 1999 , 25, 635-641	0.4	
1	Oxidation Reaction of Calcium Sulfide in an Advanced PFBC Condition. (II). Sulfation Reaction and Grain Model Application.. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 1999 , 78, 750-759	0.5	1