

# Yoshihiko Ninomiya

## List of Publications by Year in descending order

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106  
papers

2,231  
citations

186265

28  
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265206

42  
g-index

109  
all docs

109  
docs citations

109  
times ranked

1871  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	6.4	9
2	Prediction method of ash deposition based on combustion state of solid fuel. <i>Mechanical Engineering Journal</i> , 2022, , .	0.4	0
3	Use of thermal treatment with CaCl <sub>2</sub> and CaO to remove <sup>137</sup> Cs in the soil collected from the area near the Fukushima Daiichi Nuclear Power Plant. <i>Journal of Hazardous Materials</i> , 2021, 401, 123364.	12.4	6
4	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.	6.4	2
5	Do FeCl <sub>3</sub> and FeCl <sub>3</sub> /CaO conditioners change pyrolysis and incineration performances, emissions, and elemental fates of textile dyeing sludge?. <i>Journal of Hazardous Materials</i> , 2021, 413, 125334.	12.4	30
6	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.	0.2	2
7	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.	0.2	1
8	Prediction of ash-deposition characteristics in co-combustion conditions with CCSEM. The Proceedings of the International Conference on Power Engineering (ICOPE), 2021, 2021.15, 2021-0129.	0.0	0
9	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.	6.4	22
10	Kinetic Study of Long-Term T23 Tube Corrosion upon Low-Rank Coal Ash Deposition under Oxy-Fuel Combustion Conditions. <i>Energy &amp; Fuels</i> , 2019, 33, 10209-10217.	5.1	1
11	Synergistic Mechanisms of CaCl <sub>2</sub> and CaO on the Vaporization of Cs from Cs-Doped Ash during Thermal Treatment. <i>Energy &amp; Fuels</i> , 2018, 32, 5433-5442.	5.1	3
12	Effect of kaolin on ash partitioning during combustion of a low-rank coal in O <sub>2</sub> /CO <sub>2</sub> atmosphere. <i>Fuel</i> , 2018, 222, 538-543.	6.4	13
13	Occurrence and characteristics of abundant fine included mineral particles in Collie coal of Western Australia. <i>Fuel</i> , 2018, 216, 53-60.	6.4	10
14	The effect of ceria content in nickel-ceria composite anode catalysts on the discharge performance for solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 2394-2401.	7.1	4
15	Partitioning of Lead and Lead Compounds under Gasification-Like Conditions. <i>Energy &amp; Fuels</i> , 2018, 32, 651-657.	5.1	3
16	Enhancement of Cs vaporization from simulated granular ash through thermal treatment in N <sub>2</sub> atmosphere with the addition of a mixture of CaCl <sub>2</sub> and CaO. <i>Fuel</i> , 2018, 214, 409-415.	6.4	6
17	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	6
18	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.	3.7	0

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19	Influence of methane fuel on terminal voltage of a Ni-GDC anode electrode. The Proceedings of the National Symposium on Power and Energy Systems, 2018, 2018.23, C121.	0.0	0
20	Ignitability and combustibility of Yallourn pyrolysis char under simulated blast furnace conditions. Fuel Processing Technology, 2017, 156, 113-123.	7.2	14
21	High-throughput optimization of near-infrared-transparent Mo-doped In <sub>2</sub> O <sub>3</sub> thin films with high conductivity by combined use of atmospheric-pressure mist chemical-vapor deposition and sputtering. Thin Solid Films, 2017, 626, 46-54.	1.8	22
22	Role of CaCl <sub>2</sub> and MgCl <sub>2</sub> addition in the vaporization of water-insoluble cesium from incineration ash during thermal treatment. Chemical Engineering Journal, 2017, 323, 114-123.	12.7	19
23	High-temperature tube corrosion upon the interaction with Victorian brown coal fly ash under the oxy-fuel combustion condition. Proceedings of the Combustion Institute, 2017, 36, 3941-3948.	3.9	12
24	Zinc nitride as a potential high-mobility transparent conductor. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1600472.	1.8	11
25	High-mobility Transparent p-type CuI Semiconducting Layers Fabricated on Flexible Plastic Sheets: Toward Flexible Transparent Electronics. Advanced Electronic Materials, 2017, 3, 1700298.	5.1	62
26	Spatial distribution of chromium on the corroded tube surface characterised by synchrotron X-ray fluorescence (SXRF) mapping and <sup>13</sup> C-XANES: Co-existence of Ca-rich ash deposits and oxy-firing flue gas. Fuel Processing Technology, 2017, 167, 31-42.	7.2	2
27	Conduction-band effective mass and bandgap of ZnSnN <sub>2</sub> earth-abundant solar absorber. Scientific Reports, 2017, 7, 14987.	3.3	33
28	Influence of gaseous SO <sub>2</sub> and sulphate-bearing ash deposits on the high-temperature corrosion of heat exchanger tube during oxy-fuel combustion. Fuel Processing Technology, 2017, 167, 193-204.	7.2	21
29	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. Fuel, 2017, 187, 68-83.	6.4	16
30	Vaporization Behavior of Cs, K, and Na in Cs-Containing Incineration Bottom Ash during Thermal Treatment with CaCl <sub>2</sub> and CaO. Energy & Fuels, 2017, 31, 14045-14052.	5.1	6
31	Influence of Inherent Moisture on the Formation of Particulate Matter during Low-Rank Coal Combustion. Journal of Chemical Engineering of Japan, 2017, 50, 351-357.	0.6	3
32	Influence of Ni-CeO <sub>2</sub> composition as anode catalyst in a SOFC on discharge performance. The Proceedings of the National Symposium on Power and Energy Systems, 2017, 2017.22, D131.	0.0	0
33	Current Issues of Ash Deposition and Corrosion on Waste-to-Energy Plant. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2016, 95, 1089-1104.	0.2	2
34	Influence of Steam, Hydrogen Chloride, and Hydrogen Sulfide on the Release and Condensation of Zinc in Gasification. Industrial & Engineering Chemistry Research, 2016, 55, 6911-6921.	3.7	10
35	Ni-CeO <sub>2</sub> Nano-composite Anode for Solid Oxide Fuel Cell with ScSZ Electrolyte for Biomass Gasification Fuel Cell Power Generation System. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2016, 95, 922-929.	0.2	2
36	Truly Transparent p-Type <sup>3</sup> CuI Thin Films with High Hole Mobility. Chemistry of Materials, 2016, 28, 4971-4981.	6.7	166

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37	Vaporization Mechanisms of Water-Insoluble Cs in Ash During Thermal Treatment with Calcium Chloride Addition. <i>Environmental Science &amp; Technology</i> , 2016, 50, 13328-13334.	10.0	19
38	Comparative study of electron transport mechanisms in epitaxial and polycrystalline zinc nitride films. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	28
39	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	132
40	Ignitability and Combustibility of Yallourn Pyrolysis Char Blended with Pulverized Coal Injection Coal under Simulated Blast Furnace Conditions. <i>Energy &amp; Fuels</i> , 2016, 30, 1858-1868.	5.1	15
41	Influence of Steam, Hydrogen Chloride, and Hydrogen Sulfide on the Release and Condensation of Cadmium in Gasification. <i>Energy &amp; Fuels</i> , 2016, .	5.1	5
42	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	18
43	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.	0.6	0
44	Pilot-scale experimental and CFD modeling investigations of oxy-fuel combustion of Victorian brown coal. <i>Fuel</i> , 2015, 144, 111-120.	6.4	34
45	Oxygen-Doped Zinc Nitride as a High-Mobility Nitride-Based Semiconductor. <i>Journal of Physical Chemistry C</i> , 2015, 119, 5327-5333.	3.1	38
46	<i>p</i> - to <i>n</i> -Type Conversion and Nonmetalâ€Metal Transition of Lithium-Inserted Cu <sub>3</sub> N Films. <i>Chemistry of Materials</i> , 2015, 27, 8076-8083.	6.7	35
47	Transparent conducting zinc nitride films. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 05FX01.	1.5	10
48	Effect of H <sub>2</sub> S concentration in gasified gas on the microstructure and leaching properties of coal slag. <i>Fuel</i> , 2014, 116, 812-819.	6.4	6
49	Rheological evolution and crystallization response of molten coal ash slag at high temperatures. <i>AIChE Journal</i> , 2013, 59, 2726-2742.	3.6	23
50	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.	3.9	25
51	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, 260-268.	12.4	53
52	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.	6.4	24
53	Effect of magnesium additives on PM <sub>2.5</sub> reduction during pulverized coal combustion. <i>Fuel Processing Technology</i> , 2013, 105, 188-194.	7.2	24
54	Effect of HCl, SO <sub>2</sub> and H <sub>2</sub> O on the condensation of heavy metal vapors in flue gas cooling section. <i>Fuel Processing Technology</i> , 2013, 105, 181-187.	7.2	31

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55	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	32
56	Condensation Behavior of Heavy Metals during Oxy-fuel Combustion: Deposition, Species Distribution, and Their Particle Characteristics. <i>Energy &amp; Fuels</i> , 2013, 27, 5640-5652.	5.1	20
57	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 &amp; Technology</i> , 2012, 46, 3567-3573.	10.0	44
58	Effect of Coal Drying on the Behavior of Inorganic Species during Victorian Brown Coal Pyrolysis and Combustion. <i>Energy &amp; Fuels</i> , 2011, 25, 2764-2771.	5.1	16
59	Synchrotron-Based XANES Speciation of Chromium in the Oxy-Fuel Fly Ash Collected from Lab-Scale Drop-Tube Furnace. <i>Environmental Science &amp; Technology</i> , 2011, 45, 6640-6646.	10.0	43
60	Influence of woody biomass (cedar chip) addition on the emissions of PM <sub>10</sub> from pulverised coal combustion. <i>Fuel</i> , 2011, 90, 77-86.	6.4	50
61	Experimental investigation of the combustion of bituminous coal in air and O <sub>2</sub> /CO <sub>2</sub> mixtures: 2. Variation of the transformation behaviour of mineral matter with bulk gas composition. <i>Fuel</i> , 2011, 90, 1361-1369.	6.4	18
62	Ash partitioning during the oxy-fuel combustion of lignite and its dependence on the recirculation of flue gas impurities (H <sub>2</sub> O, HCl and SO <sub>2</sub> ). <i>Fuel</i> , 2011, 90, 2207-2216.	6.4	30
63	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	20
64	Evolution of organically bound metals during coal combustion in air and O <sub>2</sub> /CO <sub>2</sub> mixtures: A case study of Victorian brown coal. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 2795-2802.	3.9	15
65	Effects of HCl, SO <sub>2</sub> and H <sub>2</sub> 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.	3.9	46
66	Effect of HCl/SO <sub>2</sub> /H <sub>2</sub> 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.	0.6	6
67	Evaluation of a Mg-Based Additive for Particulate Matter (PM) <sub>2.5</sub> Reduction during Pulverized Coal Combustion. <i>Energy &amp; Fuels</i> , 2010, 24, 199-204.	5.1	28
68	Experimental Investigation of the Combustion of Bituminous Coal in Air and O <sub>2</sub> /CO <sub>2</sub> Mixtures: 1. Particle Imaging of the Combustion of Coal and Char. <i>Energy &amp; Fuels</i> , 2010, 24, 4803-4811.	5.1	19
69	Characterization of combustion-derived individual fine particulates by computer-controlled scanning electron microscopy. <i>AIChE Journal</i> , 2009, 55, 3005-3016.	3.6	9
70	Effects of coal blending on the reduction of PM <sub>10</sub> during high-temperature combustion 2. A coalescence-fragmentation model. <i>Fuel</i> , 2009, 88, 150-157.	6.4	28
71	Kinetic study of chlorine behavior in the waste incineration process. <i>Proceedings of the Combustion Institute</i> , 2009, 32, 335-342.	3.9	13
72	Mineral interactions and their impacts on the reduction of PM <sub>10</sub> emissions during co-combustion of coal with sewage sludge. <i>Proceedings of the Combustion Institute</i> , 2009, 32, 2701-2708.	3.9	22

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73	Effect of Additives on the Reduction of PM <sub>2.5</sub> Emissions during Pulverized Coal Combustion. Energy & Fuels, 2009, 23, 3412-3417.	5.1	45
74	Evaluation of nanosized additives for environmental pollutant reduction during solid fuel combustion. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2009, 17, 37-42.	0.0	0
75	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
76	Properties of water-soluble and insoluble particulate matter emitted from dewatered sewage sludge incineration in a pilot-scale ash melting furnace. Fuel, 2008, 87, 964-973.	6.4	10
77	Coordination structures of organically bound paramagnetic metals in coal and their transformation upon solvent extraction. Fuel, 2008, 87, 2628-2640.	6.4	15
78	Behavior of Chlorine in HCl/H <sub>2</sub> O/O <sub>2</sub> /CO <sub>2</sub> /N <sub>2</sub> Reaction System. Journal of Chemical Engineering of Japan, 2008, 41, 519-524.	0.6	2
79	Investigation of a direct melting dehydrated sewage sludge pilot plant. International Journal of Environment and Pollution, 2007, 31, 371.	0.2	0
80	Computer-Controlled Scanning Electron Microscopy (CCSEM) Investigation on the Heterogeneous Nature of Mineral Matter in Six Typical Chinese Coals. Energy & Fuels, 2007, 21, 468-476.	5.1	42
81	Interactions among Inherent Minerals during Coal Combustion and Their Impacts on the Emission of PM <sub>10</sub> . 2. Emission of Submicrometer-Sized Particles. Energy & Fuels, 2007, 21, 766-777.	5.1	21
82	Formation of Submicron Particulates (PM <sub>1</sub> ) from the Oxygen-Enriched Combustion of Dried Sewage Sludge and Their Properties. Energy & Fuels, 2007, 21, 88-98.	5.1	12
83	Interactions among Inherent Minerals during Coal Combustion and Their Impacts on the Emission of PM <sub>10</sub> . 1. Emission of Micrometer-Sized Particles. Energy & Fuels, 2007, 21, 756-765.	5.1	34
84	Transformation of phosphorus during combustion of coal and sewage sludge and its contributions to PM <sub>10</sub> . Proceedings of the Combustion Institute, 2007, 31, 2847-2854.	3.9	42
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86	Fundamental Behaviors in Combustion of Raw Sewage Sludge. Energy & Fuels, 2006, 20, 77-83.	5.1	45
87	Occurrence of Inorganic Elements in Condensed Volatile Matter Emitted from Coal Pyrolysis and Their Contributions to the Formation of Ultrafine Particulates during Coal Combustion. Energy & Fuels, 2006, 20, 1482-1489.	5.1	39
88	Emission of suspended PM from laboratory-scale coal combustion and its correlation with coal mineral properties. Fuel, 2006, 85, 194-203.	6.4	63
89	Characteristics of slag, fly ash and deposited particles during melting of dewatered sewage sludge in a pilot plant. Journal of Environmental Management, 2006, 79, 163-172.	7.8	15
90	Selective Synthesis of the Iminophosphoranes and Phosphorus Ylides from (Alkylamino)phosphonium Salts. Comparative Study of Electrochemical Reduction with the Base Method. Electrochemistry, 2005, 73, 798-806.	1.4	3

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91	Analysis of Coal Ash Build up on Ceramic Filters in a Hot Gas Filtration System. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2005, 84, 359-365.	0.2	1
92	Sintering Behavior of Coal Ash Build up on Ceramic Filters in a Hot Gas Filtration System. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2005, 84, 767-772.	0.2	0
93	Partitioning of sulfur and calcium during pyrolysis and combustion of high sulfur coals impregnated with calcium acetate as the desulfurization sorbent. Fuel, 2004, 83, 1039-1053.	6.4	18
94	Transformation of mineral and emission of particulate matters during co-combustion of coal with sewage sludge. Fuel, 2004, 83, 751-764.	6.4	61
95	Combustion and DeSO <sub>x</sub> behavior of high-sulfur coals added with calcium acetate produced from biomass pyrolygneous acid. Fuel, 2004, 83, 2123-2131.	6.4	8
96	Influence of coal particle size on particulate matter emission and its chemical species produced during coal combustion. Fuel Processing Technology, 2004, 85, 1065-1088.	7.2	103
97	Combustibility of dried sewage sludge and its mineral transformation at different oxygen content in drop tube furnace. Fuel Processing Technology, 2004, 85, 983-1011.	7.2	23
98	In situ desulfurization during combustion of high-sulfur coals added with sulfur capture sorbents. Fuel, 2003, 82, 255-266.	6.4	25
99	Fate of Alkali Elements during Pyrolysis and Combustion of Chinese Coals.. Journal of Chemical Engineering of Japan, 2003, 36, 759-768.	0.6	8
100	Sintering Behavior of Coal Ash Build Up on Ceramic Filters in a Hot Gas Filtration System. , 2003, , .		1
101	CCSEM analysis of ash from combustion of coal added with limestone. Fuel, 2002, 81, 1499-1508.	6.4	50
102	Correlation Analyses between the Mobilities on Paper Electrophoresis of Alkylsubstituted Phosphonium Ions (R <sub>3</sub> P <sup>+</sup> ). Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 2001, 2001, 91-95.	0.1	0
103	Theoretical study on the thermal decomposition of pyridine. Fuel, 2000, 79, 449-457.	6.4	41
104	Nonlinear Phenomena. Effects of Temperature, O <sub>2</sub> Partial Pressure, Initial CaS Content and Particle Diameter on Oxidation Reaction of CaS Particles.. Kagaku Kogaku Ronbunshu, 1999, 25, 635-641.	0.3	0
105	Oxidation Reaction of Calcium Sulfide in an Advanced PFBC Condition. (II). Sulfation Reaction and Grain Model Application.. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 1999, 78, 750-759.	0.2	1
106	Effects of Mineral Transformations on the Reduction of PM <sub>2.5</sub> during the Combustion of Coal Blends. Advanced Materials Research, 0, 356-360, 1306-1314.	0.3	2