

# Yoshihiko Ninomiya

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/4082813/yoshihiko-ninomiya-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Truly Transparent p-Type ECuI Thin Films with High Hole Mobility. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 4971-4981	9.81	110
105	Study on the species of heavy metals in MSW incineration fly ash and their leaching behavior. <i>Fuel Processing Technology</i> , <b>2016</b> , 152, 108-115	7.2	89
104	Influence of coal particle size on particulate matter emission and its chemical species produced during coal combustion. <i>Fuel Processing Technology</i> , <b>2004</b> , 85, 1065-1088	7.2	86
103	Emission of suspended PM10 from laboratory-scale coal combustion and its correlation with coal mineral properties. <i>Fuel</i> , <b>2006</b> , 85, 194-203	7.1	60
102	Transformation of mineral and emission of particulate matters during co-combustion of coal with sewage sludge. <i>Fuel</i> , <b>2004</b> , 83, 751-764	7.1	56
101	CCSEM analysis of ash from combustion of coal added with limestone. <i>Fuel</i> , <b>2002</b> , 81, 1499-1508	7.1	47
100	High-Mobility Transparent p-Type CuI Semiconducting Layers Fabricated on Flexible Plastic Sheets: Toward Flexible Transparent Electronics. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1700298	6.4	42
99	Influence of woody biomass (cedar chip) addition on the emissions of PM10 from pulverised coal combustion. <i>Fuel</i> , <b>2011</b> , 90, 77-86	7.1	40
98	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> , <b>2011</b> , 33, 2787-2793	5.9	40
97	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 &amp; Fuels</i> , <b>2006</b> , 20, 1482-1489	4.1	38
96	Elucidating the mechanism of Cr(VI) formation upon the interaction with metal oxides during coal oxy-fuel combustion. <i>Journal of Hazardous Materials</i> , <b>2013</b> , 261, 260-8	12.8	37
95	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> , <b>2012</b> , 46, 3567-73	10.3	37
94	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> , <b>2011</b> , 45, 6640-6	10.3	36
93	Fundamental Behaviors in Combustion of Raw Sewage Sludge. <i>Energy &amp; Fuels</i> , <b>2006</b> , 20, 77-83	4.1	36
92	Theoretical study on the thermal decomposition of pyridine. <i>Fuel</i> , <b>2000</b> , 79, 449-457	7.1	36
91	Effect of Additives on the Reduction of PM <sub>2.5</sub> Emissions during Pulverized Coal Combustion□	4.1	35
90	Computer-Controlled Scanning Electron Microscopy (CCSEM) Investigation on the Heterogeneous Nature of Mineral Matter in Six Typical Chinese Coals□ <i>Energy &amp; Fuels</i> , <b>2007</b> , 21, 468-476	4.1	35

89	Oxygen-Doped Zinc Nitride as a High-Mobility Nitride-Based Semiconductor. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 5327-5333	3.8	34
88	p- to n-Type Conversion and Nonmetal/Metal Transition of Lithium-Inserted Cu <sub>3</sub> N Films. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 8076-8083	9.6	32
87	Pilot-scale experimental and CFD modeling investigations of oxy-fuel combustion of Victorian brown coal. <i>Fuel</i> , <b>2015</b> , 144, 111-120	7.1	31
86	Transformation of phosphorus during combustion of coal and sewage sludge and its contributions to PM <sub>10</sub> . <i>Proceedings of the Combustion Institute</i> , <b>2007</b> , 31, 2847-2854	5.9	30
85	Ash partitioning during the oxyfuel 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> , <b>2011</b> , 90, 2207-2216	7.1	28
84	Interactions among Inherent Minerals during Coal Combustion and Their Impacts on the Emission of PM <sub>10</sub> . 1. Emission of Micrometer-Sized Particles. <i>Energy &amp; Fuels</i> , <b>2007</b> , 21, 756-765	4.1	28
83	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> , <b>2013</b> , 105, 181-187	7.2	27
82	Effect of coal blending on the leaching characteristics of arsenic in fly ash from fluidized bed coal combustion. <i>Fuel Processing Technology</i> , <b>2013</b> , 106, 769-775	7.2	26
81	In situ desulfurization during combustion of high-sulfur coals added with sulfur capture sorbents. <i>Fuel</i> , <b>2003</b> , 82, 255-266	7.1	25
80	Evaluation of a Mg-Based Additive for Particulate Matter (PM) <sub>2.5</sub> Reduction during Pulverized Coal Combustion. <i>Energy &amp; Fuels</i> , <b>2010</b> , 24, 199-204	4.1	24
79	Effects of coal blending on the reduction of PM <sub>10</sub> during high-temperature combustion 2. A coalescence-fragmentation model. <i>Fuel</i> , <b>2009</b> , 88, 150-157	7.1	24
78	Comparative study of electron transport mechanisms in epitaxial and polycrystalline zinc nitride films. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 025104	2.5	23
77	Conduction-band effective mass and bandgap of ZnSnN earth-abundant solar absorber. <i>Scientific Reports</i> , <b>2017</b> , 7, 14987	4.9	22
76	Effect of inorganic particulates on the condensation behavior of lead and zinc vapors upon flue gas cooling. <i>Proceedings of the Combustion Institute</i> , <b>2013</b> , 34, 2821-2829	5.9	21
75	Rheological evolution and crystallization response of molten coal ash slag at high temperatures. <i>AIChE Journal</i> , <b>2013</b> , 59, 2726-2742	3.6	20
74	A microscopic study of the precipitation of metallic iron in slag from iron-rich coal during high temperature gasification. <i>Fuel</i> , <b>2013</b> , 103, 101-110	7.1	20
73	Effect of magnesium additives on PM <sub>2.5</sub> reduction during pulverized coal combustion. <i>Fuel Processing Technology</i> , <b>2013</b> , 105, 188-194	7.2	20
72	Combustibility of dried sewage sludge and its mineral transformation at different oxygen content in drop tube furnace. <i>Fuel Processing Technology</i> , <b>2004</b> , 85, 983-1011	7.2	20

71	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> , <b>2010</b> , 24, 4803-4811	4.1	19
70	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> , <b>2011</b> , 90, 1361-1369	7.1	18
69	An investigation on the heterogeneous nature of mineral matters in Assam (India) coal by CCSEM technique. <i>Fuel Processing Technology</i> , <b>2011</b> , 92, 1068-1077	7.2	18
68	Interactions among Inherent Minerals during Coal Combustion and Their Impacts on the Emission of PM <sub>10</sub> . 2. Emission of Submicrometer-Sized Particles. <i>Energy &amp; Fuels</i> , <b>2007</b> , 21, 766-777	4.1	18
67	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. <i>Thin Solid Films</i> , <b>2017</b> , 626, 46-54	2.2	17
66	Condensation Behavior of Heavy Metals during Oxy-fuel Combustion: Deposition, Species Distribution, and Their Particle Characteristics. <i>Energy &amp; Fuels</i> , <b>2013</b> , 27, 5640-5652	4.1	17
65	Vaporization Mechanisms of Water-Insoluble Cs in Ash During Thermal Treatment with Calcium Chloride Addition. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 13328-13334	10.3	17
64	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> , <b>2009</b> , 32, 2701-2708	5.9	16
63	Development of thermal spraying materials through several corrosion tests for heat exchanger tube of incinerators. <i>Fuel Processing Technology</i> , <b>2016</b> , 141, 216-224	7.2	15
62	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. <i>Chemical Engineering Journal</i> , <b>2017</b> , 323, 114-123	14.7	15
61	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. <i>Fuel Processing Technology</i> , <b>2017</b> , 167, 193-204	7.2	15
60	Coordination structures of organically bound paramagnetic metals in coal and their transformation upon solvent extraction. <i>Fuel</i> , <b>2008</b> , 87, 2628-2640	7.1	15
59	Partitioning of sulfur and calcium during pyrolysis and combustion of high sulfur coals impregnated with calcium acetate as the desulfurization sorbent. <i>Fuel</i> , <b>2004</b> , 83, 1039-1053	7.1	15
58	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> , <b>2017</b> , 187, 68-83	7.1	14
57	Effect of Coal Drying on the Behavior of Inorganic Species during Victorian Brown Coal Pyrolysis and Combustion. <i>Energy &amp; Fuels</i> , <b>2011</b> , 25, 2764-2771	4.1	14
56	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> , <b>2020</b> , 264, 116855	7.1	14
55	Ignitability and combustibility of Yallourn pyrolysis char under simulated blast furnace conditions. <i>Fuel Processing Technology</i> , <b>2017</b> , 156, 113-123	7.2	13
54	Ignitability and Combustibility of Yallourn Pyrolysis Char Blended with Pulverized Coal Injection Coal under Simulated Blast Furnace Conditions. <i>Energy &amp; Fuels</i> , <b>2016</b> , 30, 1858-1868	4.1	13

53	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> , <b>2011</b> , 33, 2795-2802	5.9	13
52	Characteristics of slag, fly ash and deposited particles during melting of dewatered sewage sludge in a pilot plant. <i>Journal of Environmental Management</i> , <b>2006</b> , 79, 163-72	7.9	12
51	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> , <b>2021</b> , 413, 125334	12.8	12
50	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> , <b>2017</b> , 36, 3941-3948	5.9	11
49	Kinetic study of chlorine behavior in the waste incineration process. <i>Proceedings of the Combustion Institute</i> , <b>2009</b> , 32, 335-342	5.9	10
48	Transparent conducting zinc nitride films. <i>Japanese Journal of Applied Physics</i> , <b>2014</b> , 53, 05FX01	1.4	9
47	Characterization of combustion-derived individual fine particulates by computer-controlled scanning electron microscopy. <i>AIChE Journal</i> , <b>2009</b> , 55, 3005-3016	3.6	9
46	Influence of Steam, Hydrogen Chloride, and Hydrogen Sulfide on the Release and Condensation of Zinc in Gasification. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 6911-6921	3.9	9
45	Zinc nitride as a potential high-mobility transparent conductor. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2017</b> , 214, 1600472	1.6	8
44	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> , <b>2018</b> , 222, 538-543	7.1	8
43	Formation of Submicron Particulates (PM <sub>1</sub> ) from the Oxygen-Enriched Combustion of Dried Sewage Sludge and Their Properties. <i>Energy &amp; Fuels</i> , <b>2007</b> , 21, 88-98	4.1	8
42	Properties of water-soluble and insoluble particulate matter emitted from dewatered sewage sludge incineration in a pilot-scale ash melting furnace. <i>Fuel</i> , <b>2008</b> , 87, 964-973	7.1	8
41	Combustion and DeBOx behavior of high-sulfur coals added with calcium acetate produced from biomass pyrolygneous acid. <i>Fuel</i> , <b>2004</b> , 83, 2123-2131	7.1	8
40	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> , <b>2010</b> , 43, 713-719	0.8	6
39	Fate of Alkali Elements during Pyrolysis and Combustion of Chinese Coals.. <i>Journal of Chemical Engineering of Japan</i> , <b>2003</b> , 36, 759-768	0.8	6
38	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> , <b>2018</b> , 214, 409-415	7.1	6
37	Occurrence and characteristics of abundant fine included mineral particles in Collie coal of Western Australia. <i>Fuel</i> , <b>2018</b> , 216, 53-60	7.1	5
36	Influence of Steam, Hydrogen Chloride, and Hydrogen Sulfide on the Release and Condensation of Cadmium in Gasification. <i>Energy &amp; Fuels</i> , <b>2016</b> ,	4.1	5

35	Effect of H <sub>2</sub> S concentration in gasified gas on the microstructure and leaching properties of coal slag. <i>Fuel</i> , <b>2014</b> , 116, 812-819	7.1	5
34	Vaporization Behavior of Cs, K, and Na in Cs-Containing Incineration Bottom Ash during Thermal Treatment with CaCl <sub>2</sub> and CaO. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 14045-14052	4.1	5
33	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> , <b>2018</b> , 43, 2394-2401	6.7	4
32	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> , <b>2021</b> , 401, 123364	12.8	4
31	Elution of Ti during solvent extraction of coal and the transformation of eluted Ti upon combustion. <i>AIChE Journal</i> , <b>2008</b> , 54, 1646-1655	3.6	3
30	Low-temperature trace light-tar reforming in biomass syngas by atmospheric hydrogenation and hydrogenolysis. <i>Fuel Processing Technology</i> , <b>2018</b> , 181, 304-310	7.2	3
29	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> , <b>2018</b> , 32, 5433-5442	4.1	2
28	Partitioning of Lead and Lead Compounds under Gasification-Like Conditions. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 651-657	4.1	2
27	Behavior of Chlorine in HCl/H <sub>2</sub> O/O <sub>2</sub> /CO <sub>2</sub> /N <sub>2</sub> Reaction System. <i>Journal of Chemical Engineering of Japan</i> , <b>2008</b> , 41, 519-524	0.8	2
26	Selective Synthesis of the Iminophosphoranes and Phosphorus Ylides from (Alkylamino)phosphonium Salts. Comparative Study of Electrochemical Reduction with the Base Method. <i>Electrochemistry</i> , <b>2005</b> , 73, 798-806	1.2	2
25	Influence of Inherent Moisture on the Formation of Particulate Matter during Low-Rank Coal Combustion. <i>Journal of Chemical Engineering of Japan</i> , <b>2017</b> , 50, 351-357	0.8	2
24	Ni-CeO <sub>2</sub> 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> , <b>2016</b> , 95, 922-929	0.5	2
23	Kinetic Study of Long-Term T23 Tube Corrosion upon Low-Rank Coal Ash Deposition under Oxy-Fuel Combustion Conditions. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 10209-10217	4.1	1
22	Current Issues of Ash Deposition and Corrosion on Waste-to-Energy Plant. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>2016</b> , 95, 1089-1104	0.5	1
21	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> , <b>2017</b> , 167, 31-42	7.2	1
20	Effects of Mineral Transformations on the Reduction of PM <sub>2.5</sub> during the Combustion of Coal Blends. <i>Advanced Materials Research</i> , <b>2011</b> , 356-360, 1306-1314	0.5	1
19	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> , <b>1999</b> , 78, 750-759	9.5	1
18	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> , <b>2005</b> , 84, 359-365	0.5	1

17	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> , <b>2021</b> , 100, 236-244	0.5	1
16	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> , <b>2021</b> , 100, 245-253	0.5	1
15	Effect of the optimal combination of bituminous coal with high biomass content on particulate matter (PM) emissions during co-firing. <i>Fuel</i> , <b>2022</b> , 316, 123244	7.1	0
14	Reaction mechanisms underpinning the removal of Cs from simulated Cs-contaminated ash during thermal treatment with NaCl or KCl. <i>Fuel</i> , <b>2021</b> , 289, 119905	7.1	0
13	Condensation Behavior of Heavy Metal Vapors upon Flue Gas Cooling in Oxy-fuel versus Air Combustion. <i>Journal of Chemical Engineering of Japan</i> , <b>2015</b> , 48, 450-457	0.8	
12	Investigation of a direct melting dehydrated sewage sludge pilot plant. <i>International Journal of Environment and Pollution</i> , <b>2007</b> , 31, 371	0.7	
11	Correlation Analyses between the Mobilities on Paper Electrophoresis of Alkylsubstituted Phosphonium Ions (RR <sub>3</sub> P <sup>+</sup> ). <i>Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal</i> , <b>2001</b> , 2001, 91-95		
10	Nonlinear Phenomena. Effects of Temperature, O <sub>2</sub> Partial Pressure, Initial CaS Content and Particle Diameter on Oxidation Reaction of CaS Particles.. <i>Kagaku Kogaku Ronbunshu</i> , <b>1999</b> , 25, 635-641	0.4	
9	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> , <b>2005</b> , 84, 767-772	0.5	
8	?????????????????????????????????????. <i>Hosokawa Powder Technology Foundation ANNUAL REPORT</i> , <b>2007</b> , 15, 140-141		0
7	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> , <b>2018</b> , 2018.23, C121		0
6	Influence of Ni-CeO <sub>2</sub> composition as anode catalyst in a SOFC on discharge performance. <i>The Proceedings of the National Symposium on Power and Energy Systems</i> , <b>2017</b> , 2017.22, D131		0
5	Evaluation of nanosized additives for environmental pollutant reduction during solid fuel combustion. <i>Hosokawa Powder Technology Foundation ANNUAL REPORT</i> , <b>2009</b> , 17, 37-42		0
4	Study of Heavy Metals Condensation by Considering Variant Conditions of Incinerator Cooling Zone <b>2009</b> , 434-440		
3	Effect of Coal Blending on the Leaching Characteristics of Arsenic and Selenium in Fly Ash from Fluidized Bed Coal Combustion <b>2013</b> , 569-577		
2	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> , <b>2018</b> , 53, 11791-11812	4.3	
1	Prediction of ash-deposition characteristics in co-combustion conditions with CCSEM. <i>The Proceedings of the International Conference on Power Engineering (ICOPE)</i> , <b>2021</b> , 2021.15, 2021-0129		