Nozomu Hashimoto

List of Publications by Year
in descending order

74	1,483	279798	345221
papers	citations	23 h-index	36 g-index

74	74	74	741
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A numerical simulation of pulverized coal combustion employing a tabulated-devolatilization-process model (TDP model). Combustion and Flame, 2012, 159, 353-366.	5.2	98
2	Fundamental combustion characteristics of palm methyl ester (PME) as alternative fuel for gas turbines. Fuel, 2008, 87, 3373-3378.	6.4	95
3	Numerical simulation of pulverized coal jet flame employing the TDP model. Fuel, 2012, 97, 277-287.	6.4	75
4	Evaporation characteristics of a palm methyl ester droplet at high ambient temperatures. Fuel, 2015, 143, 202-210.	6.4	68
5	Extinction limits of an ammonia/air flame propagating in a turbulent field. Fuel, 2019, 246, 178-186.	6.4	59
6	Soot formation characteristics in a lab-scale turbulent pulverized coal flame with simultaneous planar measurements of laser induced incandescence of soot and Mie scattering of pulverized coal. Proceedings of the Combustion Institute, 2013, 34, 2435-2443.	3.9	55
7	Turbulent burning velocity of ammonia/oxygen/nitrogen premixed flame in O2-enriched air condition. Fuel, 2020, 268, 117383.	6.4	53
8	Limiting oxygen concentration (LOC) of burning polyethylene insulated wires under external radiation. Fire Safety Journal, 2016, 86, 32-40.	3.1	51
9	Fundamental combustion characteristics of Jatropha oil as alternative fuel for gas turbines. Fuel, 2014, 126, 194-201.	6.4	50
10	Microgravity experiments of fuel droplet evaporation in sub- and supercritical environments. Proceedings of the Combustion Institute, 2017, 36, 2425-2432.	3.9	50
11	Effect of insulation melting and dripping on opposed flame spread over laboratory simulated electrical wires. Fire Safety Journal, 2018, 95, 1-10.	3.1	50
12	Spray characterization of an air-assist pressure-swirl atomizer injecting high-viscosity Jatropha oils. Fuel, 2014, 121, 271-283.	6.4	49
13	Effect of ammonia/oxygen/nitrogen equivalence ratio on spherical turbulent flame propagation of pulverized coal/ammonia co-combustion. Proceedings of the Combustion Institute, 2021, 38, 4043-4052.	3.9	46
14	Effect of fuel ratio of coal on the turbulent flame speed of ammonia/coal particle cloud co-combustion at atmospheric pressure. Proceedings of the Combustion Institute, 2021, 38, 4131-4139.	3.9	44
15	A Numerical Analysis of Pulverized Coal Combustion in a Multiburner Furnace. Energy & Fuels, 2007, 21, 1950-1958.	5.1	36
16	Numerical simulation of sub-bituminous coal and bituminous coal mixed combustion employing tabulated-devolatilization-process model. Energy, 2014, 71, 399-413.	8.8	33
17	Downward flame spreading over electric wire under various oxygen concentrations. Proceedings of the Combustion Institute, 2019, 37, 3817-3824.	3.9	31
18	Numerical analysis on effect of furnace scale on heat transfer mechanism of coal particles in pulverized coal combustion field. Fuel Processing Technology, 2016, 145, 20-30.	7.2	30

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19	A numerical and experimental study of the ignition of insulated electric wire with long-term excess current supply under microgravity. Proceedings of the Combustion Institute, 2017, 36, 3063-3071.	3.9	27
20	Can a spreading flame over electric wire insulation in concurrent flow achieve steady propagation in microgravity?. Proceedings of the Combustion Institute, 2019, 37, 4155-4162.	3.9	27
21	Determining factor for the blowoff limit of a flame spreading in an opposed turbulent flow, in a narrow solid-fuel duct. Combustion and Flame, 2006, 147, 222-232.	5.2	26
22	Turbulent flame propagation limits of ammonia/methane/air premixed mixture in a constant volume vessel. Proceedings of the Combustion Institute, 2021, 38, 5171-5180.	3.9	26
23	Simultaneous imaging of Mie scattering, PAHs laser induced fluorescence and soot laser induced incandescence to a lab-scale turbulent jet pulverized coal flame. Proceedings of the Combustion Institute, 2019, 37, 3045-3052.	3.9	25
24	Primary soot particle distributions in a combustion field of 4 kW pulverized coal jet burner measured by time resolved laser induced incandescence (TiRe-LII). Journal of Thermal Science and Technology, 2016, 11, JTST0049-JTST0049.	1.1	22
25	Spherical turbulent flame propagation of pulverized coal particle clouds in an O2/N2 atmosphere. Proceedings of the Combustion Institute, 2019, 37, 2935-2942.	3.9	20
26	Experimental study on flammability limits of electrolyte solvents in lithium-ion batteries using a wick combustion method. Experimental Thermal and Fluid Science, 2019, 109, 109858.	2.7	18
27	Effect of different fuel NO models on the prediction of NO formation/reduction characteristics in a pulverized coal combustion field. Energy, 2017, 118, 47-59.	8.8	16
28	Prediction of soot formation characteristics in a pulverized-coal combustion field by large eddy simulations with the TDP model. Proceedings of the Combustion Institute, 2019, 37, 2883-2891.	3.9	16
29	A Preliminary Study of End-Burning Hybrid Rocket. Part 1. Combustion Stability.. Journal of the Japan Society for Aeronautical and Space Sciences, 2001, 49, 33-39.	0.1	15
30	Opposed-flow flame spread in a circular duct of a solid fuel: Influence of channel height on spread rate. Proceedings of the Combustion Institute, 2002, 29, 245-250.	3.9	15
31	Laser piloted ignition of electrical wire in microgravity. Proceedings of the Combustion Institute, 2019, 37, 4211-4219.	3.9	15
32	Effects of blending crude Jatropha oil and heavy fuel oil on the soot behavior of a steam atomizing burner. Renewable Energy, 2019, 136, 358-364.	8.9	15
33	A Preliminary Study of End-Burning Hybrid Rocket. Part 2. Combustion Characteristics.. Journal of the Japan Society for Aeronautical and Space Sciences, 2001, 49, 40-47.	0.1	14
34	Opposed-Flow Flame Spread and Extinction in Electric Wires: The Effects of Gravity, External Radiant Heat Flux, and Wire Characteristics on Wire Flammability. Fire Technology, 2020, 56, 131-148.	3.0	14
35	Effects of Jatropha oil blending with C-heavy oil on soot emissions and heat absorption balance characteristics for boiler combustion. Renewable Energy, 2018, 126, 924-932.	8.9	13
36	Influence of lithium salts on the combustion characteristics of dimethyl carbonate-based electrolytes using a wick combustion method. Combustion and Flame, 2020, 213, 314-321.	5.2	13

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37	Range of â€œcompleteâ€•instability of flat flames propagating downward in the acoustic field in combustion tube: Lewis number effect. Combustion and Flame, 2020, 216, 326-337.	5.2	13
38	Role of wire core in extinction of opposed flame spread over thin electric wires. Combustion and Flame, 2020, 220, 7-15.	5.2	13
39	Effect of geometrical parameters on thermo-acoustic instability of downward propagating flames in tubes. Proceedings of the Combustion Institute, 2019, 37, 1869-1877.	3.9	12
40	Effect of Ignition Condition on the Extinction Limit for Opposed Flame Spread Over Electrical Wires in Microgravity. Fire Technology, 2020, 56, 149-168.	3.0	12
41	Experimental and theoretical study of secondary acoustic instability of downward propagating flames: Higher modes and growth rates. Combustion and Flame, 2019, 205, 316-326.	5.2	11
42	Experimental study on flame stability limits of lithium ion battery electrolyte solvents with organophosphorus compounds addition using a candle-like wick combustion system. Combustion and Flame, 2019, 207, 63-70.	5.2	10
43	Effect of Minor Alloying Element on Dispersing Nano-particles in ODS Steel. Materials Research Society Symposia Proceedings, 2006, 981, 1.	0.1	9
44	Acoustic parametric instability, its suppression and a beating instability in a mesoscale combustion tube. Combustion and Flame, 2021, 228, 277-291.	5.2	9
45	Turbulent flame propagation mechanism of polymethylmethacrylate particle cloudâ€“ammonia co-combustion. Combustion and Flame, 2022, 241, 112077.	5.2	9
46	Effects of one-dimensional migration of self-interstitial atom clusters on the decreasing behaviour of their number density in electron-irradiated Î±-iron. Philosophical Magazine, 2020, 100, 110-125.	1.6	7
47	Exploring a critical diameter for thermo-acoustic instability of downward propagating flames in tubes. Proceedings of the Combustion Institute, 2021, 38, 1945-1954.	3.9	7
48	Effect of ambient pressure on the extinction limit for opposed flame spread over an electrical wire in microgravity. Proceedings of the Combustion Institute, 2021, 38, 4767-4774.	3.9	7
49	A Study on Combustion Characteristics of Dried Sludge Pellets by use of a Pulverized Coal Combustion Test Furnace. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2009, 88, 422-429.	0.2	6
50	Application of percolation model to particulate matter formation in pressurized coal combustion. Powder Technology, 2007, 172, 50-56.	4.2	5
51	Dependence of Dose and He on Irradiation-Hardening of Fe-Ion Irradiated Fe–8Cr Model Alloy. Materials Transactions, 2013, 54, 96-101.	1.2	5
52	In-Situ Observations of Microstructure Evolution in Electron-Irradiated Multi-Wall Carbon Nanotubes. Materials Transactions, 2014, 55, 458-460.	1.2	5
53	Effect of Le on criteria of transition to secondary acoustic instability of downward-propagating flame in a tube with controlled curvature induced by external laser. Proceedings of the Combustion Institute, 2019, 37, 1887-1894.	3.9	5
54	Coal Particle Devolatilization and Soot Formation in Pulverized Coal Combustion Fields. KONA Powder and Particle Journal, 2021, 38, 168-188.	1.7	5

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55	Turbulent flame propagation of polymethylmethacrylate particle clouds in an O2/N2 atmosphere. Combustion and Flame, 2021, 234, 111616.	5.2	5
56	Effect of flame surface area of downward propagating flames induced by single and double laser irradiation on transition to parametric instability. Combustion and Flame, 2021, 223, 450-459.	5.2	3
57	Experimental Study on Evaporation Characteristics of Light Cycle Oil Droplet under Various Ambient Conditions. Energy & Fuels, 2021, 35, 6219-6230.	5.1	3
58	Improvement of thermal conductivity by adding tungsten and/or copper wire in F82H. Journal of Nuclear Science and Technology, 2022, 59, 216-221.	1.3	3
59	A Numerical Simulation of Pulverized Coal Combustion Field Using a Tabulated-Devolatilization-Process Model (TDP Model) : 2nd Report, Application to a 100kg-coal/h Low NO_x Swirl Burner(Thermal Engineering). 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2010, 76, 1396-1405.	0.2	2
60	SOOT FORMATION CHARACTERISTICS OF PALM METHYL ESTER SPRAY FLAMES IN COUNTERFLOW SUSTAINED BY METHANE/AIR PREMIXED FLAME. Atomization and Sprays, 2017, 27, 1077-1087.	0.8	2
61	Measurement Techniques for Soot in Pulverized Coal Combustion Fields. Journal of the Society of Powder Technology, Japan, 2018, 55, 275-281.	0.1	1
62	Near-limit oscillatory behaviors on wick flames of dimethyl carbonate with trimethyl phosphate additions. Proceedings of the Combustion Institute, 2021, 38, 4691-4698.	3.9	1
63	Development of Apparatus for Microgravity Experiments on Evaporation and Combustion of Palm Methyl Ester Droplet in High-Pressure Environments. Transactions of the Japan Society for Aeronautical and Space Sciences Space Technology Japan, 2009, 7, Ph_43-Ph_48.	0.2	1
64	Large-Eddy Simulation of Pulverized Coal Combustion in Swirling Flow. , 2013, , 1011-1017.		1
65	Development and validation of evaporation model for a multi-component fuel considering volume-average internal mass and enthalpy. International Journal of Heat and Mass Transfer, 2022, 188, 122318.	4.8	1
66	Fuel Regression Characteristics of Porous Solid Fuels for End-Burning Hybrid Rocket. The Proceedings of Conference of Hokkaido Branch, 2002, 2002.42, 84-85.	0.0	0
67	Effects of Fuel Species on Soot Formation in Laminar Counterflow: Comparison Between Diesel Fuel and Palm Methyl Ester as an Alternative Fuel. , 2011, , .		0
68	Development of iron-base composite materials with high thermal conductivity for DEMO. Materials Research Society Symposia Proceedings, 2014, 1645, 1.	0.1	0
69	B12-O-21Development of High Pressure Gas Environmental Cell and its Application to Hydrogen Reaction. Microscopy (Oxford, England), 2015, 64, i29.1-i29.	1.5	0
70	B23-P-16Multi-layer Method combined with Nano-indentation, FIB and XTEM for Nano-hardness Measurement. Microscopy (Oxford, England), 2015, 64, i119.2-i119.	1.5	0
71	Research on Promotion of Combustion of Pulverized Solid Fuel by Co-combustion of Hydrogen. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2021, 28, 68-73.	0.0	0
72	511 Combustion stability of End-Burning Hybrid Rocket. The Proceedings of Conference of Hokkaido Branch, 2000, 2000.40, 202-203.	0.0	0

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73	Dimensional Analysis for Flammability Limits of Spreading Flame over Electric Wire in Microgravity. The Proceedings of Mechanical Engineering Congress Japan, 2017, 2017, G0600105.	0.0	0
74	Optical Diagnostics for Pulverized Coal Jet Flame. Journal of the Society of Powder Technology, Japan, 2018, 55, 138-146.	0.1	0