Osamu Fujita

List of Publications by Year
in descending order

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		159585	243625
125	2,436	30	44
papers	citations	h-index	g-index

126	126	126	702
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Flame spread over electric wire in sub-atmospheric pressure. Proceedings of the Combustion Institute, 2009, 32, 2559-2566.	3.9	105
2	Effect of low external flow on flame spread over polyethylene-insulated wire in microgravity. Proceedings of the Combustion Institute, 2002, 29, 2545-2552.	3.9	90
3	Flame spread over electric wire with high thermal conductivity metal core at different inclinations. Proceedings of the Combustion Institute, 2015, 35, 2607-2614.	3.9	88
4	Experimental study on flame spread over wire insulation in microgravity. Proceedings of the Combustion Institute, 1998, 27, 2507-2514.	0.3	83
5	Solid combustion research in microgravity as a basis of fire safety in space. Proceedings of the Combustion Institute, 2015, 35, 2487-2502.	3.9	76
6	Extinction limits of an ammonia/air flame propagating in a turbulent field. Fuel, 2019, 246, 178-186.	6.4	59
7	Flame spread: Effects of microgravity and scale. Combustion and Flame, 2019, 199, 168-182.	5.2	58
8	Experimental observations of spot radiative ignition and subsequent three-dimensional flame spread over thin cellulose fuels. Combustion and Flame, 2001, 125, 852-864.	5.2	56
9	Ignition of electrical wire insulation with short-term excess electric current in microgravity. Proceedings of the Combustion Institute, 2011, 33, 2617-2623.	3.9	56
10	Fire safety in space â€“ beyond flammability testing of small samples. Acta Astronautica, 2015, 109, 208-216.	3.2	53
11	Turbulent burning velocity of ammonia/oxygen/nitrogen premixed flame in O2-enriched air condition. Fuel, 2020, 268, 117383.	6.4	53
12	Effective mechanisms to determine flame spread rate over ethylene-tetrafluoroethylene wire insulation: Discussion on dilution gas effect based on temperature measurements. Proceedings of the Combustion Institute, 2000, 28, 2905-2911.	3.9	52
13	Limiting oxygen concentration (LOC) of burning polyethylene insulated wires under external radiation. Fire Safety Journal, 2016, 86, 32-40.	3.1	51
14	Study on unsteady molten insulation volume change during flame spreading over wire insulation in microgravity. Proceedings of the Combustion Institute, 2013, 34, 2657-2664.	3.9	50
15	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
16	A study on developing aviation biofuel for the Tropics: Production processâ€”Experimental and theoretical evaluation of their blends with fossil kerosene. Chemical Engineering and Processing: Process Intensification, 2013, 74, 124-130.	3.6	49
17	Effects of slow wind on localied radiative ignition and transition to flame spread in microgravity. Proceedings of the Combustion Institute, 1996, 26, 1345-1352.	0.3	47
18	Microgravity flammability limits of ETFE insulated wires exposed to external radiation. Proceedings of the Combustion Institute, 2015, 35, 2683-2689.	3.9	47

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19	Fire safety in space â€“ Investigating flame spread interaction over wires. Acta Astronautica, 2016, 126, 500-509.	3.2	47
20	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
21	Propagation speed of tribrachial (triple) flame of propane in laminar jets under normal and micro gravity conditions. Combustion and Flame, 2003, 134, 411-420.	5.2	44
22	Opposed-wind Effect on Flame Spread of Electric Wire in Sub-atmospheric Pressure. Journal of Thermal Science and Technology, 2008, 3, 430-441.	1.1	44
23	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
24	Normal and microgravity experiment of oscillating lifted flames in coflow. Proceedings of the Combustion Institute, 2002, 29, 37-44.	3.9	41
25	Extinction limits of spreading flames over wires in microgravity. Combustion and Flame, 2013, 160, 1900-1902.	5.2	41
26	Ignition limits of short-term overloaded electric wires in microgravity. Proceedings of the Combustion Institute, 2013, 34, 2665-2673.	3.9	41
27	Flame spread over electrical wire with AC electric fields: Internal circulation, fuel vapor-jet, spread rate acceleration, and molten insulator dripping. Combustion and Flame, 2015, 162, 1167-1175.	5.2	41
28	Effect of AC electric fields on flame spread over electrical wire. Proceedings of the Combustion Institute, 2011, 33, 1145-1151.	3.9	38
29	Agglomeration of soot particles in diffusion flames under microgravity. Combustion and Flame, 1994, 99, 363-370.	5.2	31
30	Limiting oxygen concentration for extinction of upward spreading flames over inclined thin polyethylene-insulated NiCr electrical wires with opposed-flow under normal- and micro-gravity. Proceedings of the Combustion Institute, 2017, 36, 3045-3053.	3.9	31
31	Downward flame spreading over electric wire under various oxygen concentrations. Proceedings of the Combustion Institute, 2019, 37, 3817-3824.	3.9	31
32	Flame spread over inclined electrical wires with AC electric fields. Combustion and Flame, 2017, 185, 82-92.	5.2	29
33	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
34	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
35	Effect of wind velocity on flame spread in microgravity. Proceedings of the Combustion Institute, 2002, 29, 2553-2560.	3.9	26
36	An Overview of Challenges in Modeling Heat and Mass Transfer for Living on Mars. Annals of the New York Academy of Sciences, 2006, 1077, 232-243.	3.8	26

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37	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
38	Onset mechanism of primary acoustic instability in downward-propagating flames. Combustion and Flame, 2016, 170, 1-11.	5.2	23
39	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
40	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
41	Broadband modulated absorption/emission technique to probe sooting flames: Implementation, validation, and limitations. Proceedings of the Combustion Institute, 2019, 37, 3959-3966.	3.9	18
42	Experimental Evaluation of Flame Radiative Feedback: Methodology and Application to Opposed Flame Spread Over Coated Wires in Microgravity. Fire Technology, 2020, 56, 185-207.	3.0	18
43	Research on the relation of flame front curvature and oscillatory flame propagation by external laser irradiation method. Proceedings of the Combustion Institute, 2009, 32, 1003-1009.	3.9	17
44	Two-sided ignition of a thin PMMA sheet in microgravity. Proceedings of the Combustion Institute, 2005, 30, 2319-2325.	3.9	16
45	Blowout of non-premixed turbulent jet flames with coflow under microgravity condition. Combustion and Flame, 2019, 210, 315-323.	5.2	16
46	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
47	Observation of soot agglomeration process with aid of thermophoretic force in a microgravity jet diffusion flame. Experimental Thermal and Fluid Science, 2002, 26, 305-311.	2.7	15
48	Laser piloted ignition of electrical wire in microgravity. Proceedings of the Combustion Institute, 2019, 37, 4211-4219.	3.9	15
49	Experimental study on radiative ignition of a paper sheet in microgravity. Proceedings of the Combustion Institute, 2000, 28, 2761-2767.	3.9	14
50	Effect of Co-Axial Flow Velocity on Soot Formation in a Laminar Jet Diffusion Flame under Microgravity. Journal of Thermal Science and Technology, 2007, 2, 281-290.	1.1	14
51	Experimental investigation of the effects of cycloparaffins and aromatics on the sooting tendency and the freezing point of soap-derived biokerosene and normal paraffins. Fuel, 2016, 185, 855-862.	6.4	14
52	Rapidly mixed combustion of hydrogen/oxygen diluted by N2 and CO2 in a tubular flame combustor. International Journal of Hydrogen Energy, 2018, 43, 14806-14815.	7.1	14
53	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
54	Ignition Behavior of Bio-Coke (Highly Densified Biomass Fuel) in High-Temperature Air Flows. Journal of Thermal Science and Technology, 2011, 6, 111-122.	1.1	13

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55	Effects of Lewis number on generation of primary acoustic instability in downward-propagating flames. Proceedings of the Combustion Institute, 2017, 36, 1603-1611.	3.9	13
56	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
57	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
58	Role of wire core in extinction of opposed flame spread over thin electric wires. Combustion and Flame, 2020, 220, 7-15.	5.2	13
59	Transition of flat flames to turbulent motion induced by external laser irradiation. Proceedings of the Combustion Institute, 2011, 33, 1105-1112.	3.9	12
60	Initiation and formation of the corrugated structure leading to the self-turbulization of downward propagating flames in a combustion tube with external laser absorption. Combustion and Flame, 2014, 161, 1558-1565.	5.2	12
61	The sooting tendency of aviation biofuels and jet range paraffins: effects of adding aromatics, carbon chain length of normal paraffins, and fraction of branched paraffins. Combustion Science and Technology, 2018, 190, 1710-1721.	2.3	12
62	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
63	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
64	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
65	Numerical simulation and flight experiment on oscillating lifted flames in coflow jets with gravity level variation. Combustion and Flame, 2006, 145, 181-193.	5.2	10
66	Experimental observation of pulsating instability under acoustic field in downward-propagating flames at large Lewis number. Combustion and Flame, 2018, 188, 1-4.	5.2	10
67	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
68	Formation Characteristics of High-density and High-hardness New Briquette Based on Herby Biomass. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2012, 91, 41-47.	0.2	10
69	Downstream interaction between stretched premixed syngasâ€“air flames. Fuel, 2013, 104, 739-748.	6.4	9
70	Study on one-dimensional steady combustion of highly densified biomass briquette (bio-coke) in air flow. Proceedings of the Combustion Institute, 2015, 35, 2415-2422.	3.9	9
71	Acoustic parametric instability, its suppression and a beating instability in a mesoscale combustion tube. Combustion and Flame, 2021, 228, 277-291.	5.2	9
72	Effect of sample thickness on concurrent steady spread behavior of floor- and ceiling flames. Combustion and Flame, 2021, 233, 111600.	5.2	9

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73	Turbulent flame propagation mechanism of polymethylmethacrylate particle cloudâ€“ammonia co-combustion. Combustion and Flame, 2022, 241, 112077.	5.2	9
74	Accessing the soot-related radiative heat feedback in a flame spreading in microgravity: optical designs and associated limitations. Proceedings of the Combustion Institute, 2021, 38, 4805-4814.	3.9	8
75	Experimental study of downward flame spread and extinction over inclined electrical wire under horizontal wind. Combustion and Flame, 2022, 237, 111820.	5.2	8
76	The effect of irradiation angle on laser ignition of cellulose sheet in microgravity. Proceedings of the Combustion Institute, 2005, 30, 2311-2317.	3.9	7
77	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
78	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
79	A Study of the Effect of Oxygen Concentration on the Soot Deposition Process in a Diffusion Flame along a Solid Wall by In-Situ Observations in Microgravity. JSME International Journal Series B, 2005, 48, 839-848.	0.3	6
80	In-Situ Observation of the Soot Deposition Process on a Solid Wall with a Diffusion Flame along the Wall. JSME International Journal Series B, 2006, 49, 167-175.	0.3	6
81	Improvements in Pyrolysis of Wastes in an Externally Heated Rotary Kiln (Experimental Study on Heat) Tj ETQq1 1 0.784314 rgBT /Ov	1.1	6
82	Study of the transient combustion of highly densified biomass briquette (Bio-coke) in an air flow. Fuel, 2017, 188, 595-602.	6.4	6
83	The Space Exposure Experiment of PEEK Sheets under Tensile Stress. JSME International Journal Series A-Solid Mechanics and Material Engineering, 2004, 47, 365-370.	0.4	5
84	Experimental study on thermophoretic deposition of soot particles in laminar diffusion flames along a solid wall in microgravity. Experimental Thermal and Fluid Science, 2008, 32, 1484-1491.	2.7	5
85	Observation of Flame Spreading over Electric Wire under Reduced Gravity Condition Given by Parabolic Flight and Drop Tower Experiments. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2010, 8, Ph_19-Ph_24.	0.2	5
86	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
87	Soot formation of dodecane, aviation bio-paraffins and their blends with propylbenzene in diffusion flames. Renewable Energy, 2019, 136, 84-90.	8.9	5
88	Turbulent flame propagation of polymethylmethacrylate particle clouds in an O2/N2 atmosphere. Combustion and Flame, 2021, 234, 111616.	5.2	5
89	Effects of Early Rearing Conditions and Age upon Open-field Behavior in Chicks. The Annual of Animal Psychology, 1971, 21, 31-42.	0.1	5
90	Effect of Gravity and Beam Diameter on Flame Oscillation Phenomena Induced by External Laser Absorption. Combustion Science and Technology, 2008, 180, 1803-1811.	2.3	4

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91	Experimental investigation on the smoldering limit of scraps of paper initiated by a cylindrical rod heater. Proceedings of the Combustion Institute, 2019, 37, 4099-4106.	3.9	4
92	Effect of reduced ambient pressures and opposed airflows on the flame spread and dripping of LDPE insulated copper wires. Fire Safety Journal, 2021, 120, 103171.	3.1	4
93	Quantitative infrared image analysis of simultaneous upstream and downstream microgravity flame spread over thermally thin cellulose fuel in low speed forced flow. Combustion and Flame, 2021, 227, 402-420.	5.2	4
94	Microgravity combustion researches by utilizing th.... , 2005, , .		3
95	The Flame Oscillation Phenomena Induced by External Radiation. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2007, 73, 803-808.	0.2	3
96	Phenomena in oscillating downward propagating flames induced by external laser irradiation method. Experimental Thermal and Fluid Science, 2010, 34, 1290-1294.	2.7	3
97	Interaction Between Propagation Speed and Flame Structure in Downward Cellular Propagating Flame in a Combustion Tube with Co2Laser Irradiation. Combustion Science and Technology, 2014, 186, 1434-1446.	2.3	3
98	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
99	Experimental Study on Evaporation Characteristics of Light Cycle Oil Droplet under Various Ambient Conditions. Energy & Fuels, 2021, 35, 6219-6230.	5.1	3
100	Prediction Performance of Chemical Mechanisms for Numerical Simulation of Methane Jet MILD Combustion. Advances in Mechanical Engineering, 2013, 5, 138729.	1.6	3
101	Fundamental Studies of Oral Contrast Agents for MR : Comparison of Manganese Agent and Iron Agent. Japanese Journal of Radiological Technology, 1996, 52, 1613-1618.	0.1	3
102	The Effect of Core Material on Combustion Behaviour over Polyethylene Insulated Wire under Microgravity. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2004, 70, 1555-1562.	0.2	2
103	Investigation of applying DC electric field effect on carbon nanotube synthesis. Asia-Pacific Journal of Chemical Engineering, 2013, 8, 246-253.	1.5	2
104	The situational determinants of open-field behavior in ICR/JCL mice. Japanese Psychological Research, 1981, 23, 169-173.	1.1	2
105	Experimental Study on Radiative Ignition of Filter Paper with Near Infrared Radiation Under Microgravity. JSME International Journal Series B, 2003, 46, 625-632.	0.3	1
106	Development of Large-Scale Spacecraft Fire Safety Experiments. , 2013, , .		1
107	Effects of gas temperature and oxygen concentration on the soot formation of laminar diffusion flames in the ambient gas mixtures of carbon-dioxide and oxygen. Transactions of the JSME (in) Tj ETQq1 1 0.784314 rgBT /Overlock 10		
108	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

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109	The Effect of Emotional Stimuli on Behavior in the Multiple Choice Situation. The Annual of Animal Psychology, 1963, 13, 17-26.	0.1	1
110	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
111	Amplification of irrelevant sequence from Bacillus subtilis using a primer set designed for detection of the pag gene of Bacillus anthracis. Japanese Journal of Infectious Diseases, 2002, 55, 99-100.	1.2	1
112	An Application of the Selective Contact Reduction Method by NO_x-NH₃ Reaction to a Methanol Fueled S. I. Engine Exhaust System. Bulletin of the JSME, 1986, 29, 4291-4296.	0.1	0
113	Ignition limit of electric wire insulation with continuous excess current in several microgravity periods. , 2013, , .		0
114	Atomic Oxygen Irradiation on PEEK Sheet under Tensile Loads. The Proceedings of Conference of Hokkaido Branch, 2002, 2002.42, 122-123.	0.0	0
115	GS(1)-2(GSW0339) The Degradation of PEEK Sheets Accelerated by Stress in a Real Space Environment Based on the Space Exposure Experiment. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2003, 2003, 12.	0.0	0
116	Changes of mechanical properties on PEEK sheet in LEO environment. The Proceedings of the JSME Annual Meeting, 2004, 2004.5, 445-446.	0.0	0
117	315 Catalytic Puriffication of NOx in DME Engine Exhaust Gas with Injection of Reducing Agent. The Proceedings of Conference of Hokkaido Branch, 2005, 2005.44, 108-109.	0.0	0
118	Transition Phenomenon from a Flat Flame to Turbulent Flame Motions by External Laser. Transactions of the Korean Society of Mechanical Engineers, B, 2012, 36, 1209-1215.	0.1	0
119	A124 Change in the Extinction Limit of Electrolyte for Li-ion Batteries by Addition of Fire Retardant. The Proceedings of the Thermal Engineering Conference, 2013, 2013, 17-18.	0.0	0
120	CONDITIONED DRIVES AS MOTIVES IN THE RAT.. The Annual of Animal Psychology, 1955, 5, 1-11.	0.1	0
121	Studies on curiosity drive in rats IV. The Annual of Animal Psychology, 1961, 11, 19-27.	0.1	0
122	Adaptation and Evolution of Behavior : An Ecological Approach to the Study of Behavior. Japanese Journal of Animal Psychology, 1990, 40, 2-17.	0.3	0
123	Effects of aromatic on soot characteristics of aviation fuel surrogates in diffusion flames. Science and Technology Development Journal, 2015, 18, 55-64.	0.1	0
124	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
125	Comparison of thermodynamical potentials of oxy-fuel combustion and regenerative combustion. Transactions of the JSME (in Japanese), 2018, 84, 18-00070-18-00070.	0.2	0