Hideaki Kobayashi

List of Publications by Year
in descending order

132 papers	7,095 citations	66315 42 h-index	60583 81 g-index
132 all docs	132 docs citations	132 times ranked	1795 citing authors

#	Article	IF	Citations
1	Study of the Combined Effect of Ammonia Addition and Air Coflow Velocity on a Non-premixed Methane Jet Flame Stabilization. Combustion Science and Technology, 2022, 194, 1747-1767.	1.2	5
2	Measurement of the laminar burning velocity and kinetics study of the importance of the hydrogen recovery mechanism of ammonia/hydrogen/air premixed flames. Combustion and Flame, 2022, 236, 111753.	2.8	64
3	Effects of initial mixture temperature and pressure on laminar burning velocity and Markstein length of ammonia/air premixed laminar flames. Fuel, 2022, 310, 122149.	3.4	46
4	Numerical and experimental study of product gas characteristics in premixed ammonia/methane/air laminar flames stabilised in a stagnation flow. Fuel Communications, 2022, 10, 100054.	2.0	11
5	NH3 combustion using three-layer stratified fuel injection for a large two-stroke marine engine: Experimental verification of the concept. Applications in Energy and Combustion Science, 2022, 10, 100071.	0.9	9
6	Experimental and Numerical Study of NH₃/CH₄ Counterflow Premixed and Non-premixed Flames for Various NH₃ Mixing Ratios. Combustion Science and Technology, 2021, 193, 2872-2889.	1.2	14
7	Effects of OH concentration and temperature on NO emission characteristics of turbulent non-premixed CH4/NH3/air flames in a two-stage gas turbine like combustor at high pressure. Proceedings of the Combustion Institute, 2021, 38, 5163-5170.	2.4	54
8	Turbulent flame propagation limits of ammonia/methane/air premixed mixture in a constant volume vessel. Proceedings of the Combustion Institute, 2021, 38, 5171-5180.	2.4	26
9	Influence of wall heat loss on the emission characteristics of premixed ammonia-air swirling flames interacting with the combustor wall. Proceedings of the Combustion Institute, 2021, 38, 5139-5146.	2.4	48
10	Experimental and numerical study of product gas characteristics of ammonia/air premixed laminar flames stabilized in a stagnation flow. Proceedings of the Combustion Institute, 2021, 38, 2409-2417.	2.4	37
11	Flame stability and emissions characteristics of liquid ammonia spray co-fired with methane in a single stage swirl combustor. Fuel, 2021, 287, 119433.	3.4	78
12	Liquid ammonia spray combustion in two-stage micro gas turbine combustors at 0.25 MPa; Relevance of combustion enhancement to flame stability and NOx control. Applications in Energy and Combustion Science, 2021, 7, 100038.	0.9	12
13	Stabilization mechanisms of an ammonia/methane non-premixed jet flame up to liftoff. Combustion and Flame, 2021, 234, 111657.	2.8	11
14	Control of NOx and other emissions in micro gas turbine combustors fuelled with mixtures of methane and ammonia. Combustion and Flame, 2020, 211, 406-416.	2.8	197
15	Flow Field and Combustion Field Control Using Pylons Installed Upstream of a Cavity in Supersonic Flow. Transactions of the Japan Society for Aeronautical and Space Sciences, 2020, 63, 50-61.	0.4	1
16	Turbulent burning velocity of ammonia/oxygen/nitrogen premixed flame in O2-enriched air condition. Fuel, 2020, 268, 117383.	3.4	53
17	Novel dilution sampling method for gas analysis with a low sampling rate. Mechanical Engineering Journal, 2020, 7, 19-00193-19-00193.	0.2	3
18	Combustion Characteristics of a Cavity Flameholder with a Burned-Gas Injector at the Cavity Bottom Wall in a Scramjet Model Combustor. Transactions of the Japan Society for Aeronautical and Space Sciences, 2020, 63, 160-171.	0.4	5

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19	Towards the development of an efficient low-NOx ammonia combustor for a micro gas turbine. Proceedings of the Combustion Institute, 2019, 37, 4597-4606.	2.4	201
20	OH planar laser-induced fluorescence measurement for H₂/O₂ jet diffusion flames in rocket combustion condition up to 7.0 MPa. Journal of Thermal Science and Technology, 2019, 14, JTST0018-JTST0018.	0.6	4
21	Emission characteristics of turbulent non-premixed ammonia/air and methane/air swirl flames through a rich-lean combustor under various wall thermal boundary conditions at high pressure. Combustion and Flame, 2019, 210, 247-261.	2.8	110
22	Measurement and modelling of the laminar burning velocity of methane-ammonia-air flames at high pressures using a reduced reaction mechanism. Combustion and Flame, 2019, 204, 162-175.	2.8	265
23	Extinction limits of an ammonia/air flame propagating in a turbulent field. Fuel, 2019, 246, 178-186.	3.4	59
24	Burning velocity and flame structure of CH4/NH3/air turbulent premixed flames at high pressure. International Journal of Hydrogen Energy, 2019, 44, 6991-6999.	3.8	63
25	Three-dimensional cellular premixed flames generated by hydrodynamic and diffusive-thermal instabilities (Effects of unburned-gas temperature and heat loss). Transactions of the JSME (in) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.1	0
26	Science and technology of ammonia combustion. Proceedings of the Combustion Institute, 2019, 37, 109-133.	2.4	997
27	Development of a wide range-operable, rich-lean low-NOx combustor for NH3 fuel gas-turbine power generation. Proceedings of the Combustion Institute, 2019, 37, 4587-4595.	2.4	127
28	Quantitative measurement of temperature in oxygen enriched CH4/O2/N2 premixed flames using Laser Induced Thermal Grating Spectroscopy (LITGS) up to 1.0â€¯MPa. Proceedings of the Combustion Institute, 2019, 37, 1427-1434.	2.4	6
29	Experimental and numerical study of the laminar burning velocity of CH4â€“NH3â€“air premixed flames. Combustion and Flame, 2018, 187, 185-198.	2.8	449
30	Development and verification of a supersonic nozzle with a rectangular cross section at a Mach number of 2.8 for a scramjet model combustor. Journal of Thermal Science and Technology, 2018, 13, JTST0032-JTST0032.	0.6	5
31	NOx Reduction in a Swirl Combustor Firing Ammonia for a Micro Gas Turbine. , 2018, , .		1
32	Total temperature estimation of a hydrogen/air burned-gas torch igniter for a scramjet combustor. Journal of Thermal Science and Technology, 2018, 13, JTST0030-JTST0030.	0.6	4
33	Modelling of ammonia/air non-premixed turbulent swirling flames in a gas turbine-like combustor at various pressures. Combustion Theory and Modelling, 2018, 22, 973-997.	1.0	53
34	Development of a water-cooled multi-hole calibration burner for optical measurements of flames with high pressures and temperatures. Journal of Thermal Science and Technology, 2018, 13, JTST0001-JTST0001.	0.6	4
35	Experimental investigation of stabilization and emission characteristics of ammonia/air premixed flames in a swirl combustor. International Journal of Hydrogen Energy, 2017, 42, 14010-14018.	3.8	199
36	Numerical study of a low emission gas turbine like combustor for turbulent ammonia/air premixed swirl flames with a secondary air injection at high pressure. International Journal of Hydrogen Energy, 2017, 42, 27388-27399.	3.8	158

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37	Success of Ammonia-Fired, Regenerator-Heated, Diffusion Combustion Gas Turbine Power Generation and Prospect of Low NOx Combustion With High Combustion Efficiency. , 2017, , .		3
38	Operation and Flame Observation of Micro Gas Turbine Firing Ammonia. , 2017, , .		1
39	Performances and emission characteristics of NH3â€“air and NH3CH4â€“air combustion gas-turbine power generations. Proceedings of the Combustion Institute, 2017, 36, 3351-3359.	2.4	292
40	Application of OH(2,0) Band Excitation Planar Laser-Induced Fluorescence to High-Pressure H₂/O₂ Jet Flames for Rocket Combustion. Transactions of the Japan Society for Aeronautical and Space Sciences, 2017, 60, 116-123.	0.4	5
41	The effects of unburned-gas temperature on the characteristics of cellular premixed flames generated by hydrodynamic and diffusive-thermal instabilities in large space: fractal dimension of cellular-flame fronts. Journal of Thermal Science and Technology, 2017, 12, JTST0015-JTST0015.	0.6	1
42	Unstable behaviors of cellular premixed flames caused by hydrodynamic and diffusive-thermal instabilities under high- and low-temperature environment. Transactions of the JSME (in Japanese), 2016, 82, 15-00522-15-00522.	0.1	2
43	Micro Gas Turbine Firing Ammonia. , 2016, , .		3
44	Numerical investigation on the combustion characteristics of turbulent premixed ammonia/air flames stabilized by a swirl burner. Journal of Fluid Science and Technology, 2016, 11, JFST0026-JFST0026.	0.2	32
45	Extinction characteristics of ammonia/air counterflow premixed flames at various pressures. Journal of Thermal Science and Technology, 2016, 11, JTST0048-JTST0048.	0.6	45
46	Effects of Incident Shockwave on Flame-holding Downstream of Ramp Injector in Supersonic Flow. Transactions of the Japan Society for Aeronautical and Space Sciences, 2016, 59, 64-70.	0.4	4
47	Combustion Mechanism Downstream of a Cavity Flameholder Interacting with an Incident Shock Wave in Supersonic Flow. Journal of the Japan Society for Aeronautical and Space Sciences, 2016, 64, 97-103.	0.0	0
48	Investigation of surface-acoustic-wave atomization using phase Doppler anemometry. , 2015, , .		0
49	NO formation/reduction mechanisms of ammonia/air premixed flames at various equivalence ratios and pressures. Mechanical Engineering Journal, 2015, 2, 14-00402-14-00402.	0.2	101
50	Intrinsic Instability of Three-Dimensional Premixed Flames Under Low- and High-Temperature Conditions: Effects of Unburned-Gas Temperature on Hydrodynamic and Diffusive-Thermal Instabilities. Combustion Science and Technology, 2015, 187, 1167-1181.	1.2	7
51	Laminar burning velocity and Markstein length of ammonia/hydrogen/air premixed flames at elevated pressures. International Journal of Hydrogen Energy, 2015, 40, 9570-9578.	3.8	248
52	Burning velocity and statistical flame front structure of turbulent premixed flames at high pressure up to 1.0 MPa. Experimental Thermal and Fluid Science, 2015, 68, 196-204.	1.5	34
53	Estimation of 3D flame surface density and global fuel consumption rate from 2D PLIF images of turbulent premixed flame. Combustion and Flame, 2015, 162, 2087-2097.	2.8	54
54	Laminar burning velocity and Markstein length of ammonia/air premixed flames at various pressures. Fuel, 2015, 159, 98-106.	3.4	420

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55	Flame front structure of turbulent premixed flames of syngas oxyfuel mixtures. International Journal of Hydrogen Energy, 2014, 39, 5176-5185.	3.8	44
56	Measurement on instantaneous flame front structure of turbulent premixed CH4/H2/air flames. Experimental Thermal and Fluid Science, 2014, 52, 288-296.	1.5	57
57	Correlation of turbulent burning velocity for syngas/air mixtures at high pressure up to 1.0MPa. Experimental Thermal and Fluid Science, 2013, 50, 90-96.	1.5	31
58	Measurement of the instantaneous flame front structure of syngas turbulent premixed flames at high pressure. Combustion and Flame, 2013, 160, 2434-2441.	2.8	58
59	Turbulent premixed flame characteristics of a CO/H2/O2 mixture highly diluted with CO2 in a high-pressure environment. Proceedings of the Combustion Institute, 2013, 34, 1437-1445.	2.4	46
60	Flame front characteristics of turbulent premixed flames diluted with CO2 and H2O at high pressure and high temperature. Proceedings of the Combustion Institute, 2013, 34, 1429-1436.	2.4	40
61	Flame front structure and burning velocity of turbulent premixed CH4/H2/air flames. International Journal of Hydrogen Energy, 2013, 38, 11421-11428.	3.8	52
62	Numerical Study on the Intrinsic Instability of High-Temperature Premixed Flames under the Conditions of Constant Density and Constant Pressure in the Unburned Gas. Journal of Fluid Science and Technology, 2013, 8, 233-246.	0.2	2
63	Numerical Simulation of Combustion Behavior in JFE Hyper 21 Stoker System (Creation of Entire) Tj ETQq1 1 0.784314 rgBT /Overlock 1 RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2013, 79, 772-776.	0.2	1
64	Numerical Simulation of Combustion Behavior in JFE Hyper 21 Stoker System. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2012, 78, 1012-1016.	0.2	0
65	Laminar burning velocities and flame characteristics of COâ€“H2â€“CO2â€“O2 mixtures. International Journal of Hydrogen Energy, 2012, 37, 19158-19167.	3.8	90
66	Experimental Study on Polymer Pyrolysis in High-Temperature Air Diluted by H₂O and CO₂Using Stagnation-Point Flow. Combustion Science and Technology, 2012, 184, 735-749.	1.2	7
67	Effects of the Unburned-Gas Temperature and Lewis Number on the Intrinsic Instability of High-Temperature Premixed Flames. Journal of Thermal Science and Technology, 2011, 6, 376-390.	0.6	7
68	Turbulent combustion characteristics of premixed gases in a packed pebble bed at high pressure. Proceedings of the Combustion Institute, 2011, 33, 1639-1646.	2.4	10
69	The effects of radiation on the dynamic behavior of cellular premixed flames generated by intrinsic instability. Proceedings of the Combustion Institute, 2011, 33, 1153-1162.	2.4	11
70	Flame structure and radiation characteristics of CO/H2/CO2/air turbulent premixed flames at high pressure. Proceedings of the Combustion Institute, 2011, 33, 1543-1550.	2.4	41
71	Effect of the incident shock wave interacting with transversal jet flow on the mixing and combustion. Proceedings of the Combustion Institute, 2011, 33, 2335-2342.	2.4	68
72	Experimental Study on Polymer Pyrolysis in High-Temperature Air Diluted by H2O and CO2 Using Stagnation-Point Flow. , 2011, , .		0

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73	Numerical Analysis of Extremely-rich CH4/O2/H2O Premixed Flames at High Pressure and High Temperature Considering Production of Higher Hydrocarbons. Journal of Thermal Science and Technology, 2010, 5, 109-123.	0.6	5
74	Development of an Ethanol Reduced Kinetic Mechanism Based on the Quasi-Steady State Assumption and Feasibility Evaluation for Multi-Dimensional Flame Analysis. Journal of Thermal Science and Technology, 2010, 5, 189-199.	0.6	6
75	Droplet combustion in presence of airstream oscillation: Mechanisms of enhancement and hysteresis of burning rate in microgravity at elevated pressure. Combustion and Flame, 2010, 157, 91-105.	2.8	13
76	Thermal-drag and Transition from Quasi-steady to Highly-unsteady Combustion of a Fuel Droplet in the Presence of Upstream Velocity Oscillations. Flow, Turbulence and Combustion, 2010, 84, 97-123.	1.4	2
77	A Study of Interaction between Shock Wave and Cross-Flow Jet Using Particle Tracking Velocimetry. Transactions of the Japan Society for Aeronautical and Space Sciences, 2009, 52, 81-88.	0.4	5
78	Bifurcations of stretched premixed flame stabilized by a hot wall. Proceedings of the Combustion Institute, 2009, 32, 1367-1374.	2.4	9
79	Heat and mass transfer of a fuel droplet evaporating in oscillatory flow. International Journal of Heat and Fluid Flow, 2009, 30, 729-740.	1.1	11
80	Microgravity experiments of single droplet combustion in oscillatory flow at elevated pressure. Proceedings of the Combustion Institute, 2009, 32, 2171-2178.	2.4	11
81	Dilution effects of superheated water vapor on turbulent premixed flames at high pressure and high temperature. Proceedings of the Combustion Institute, 2009, 32, 2607-2614.	2.4	37
82	On the validity of quasi-steady assumption in transient droplet combustion. Combustion and Flame, 2009, 156, 99-105.	2.8	10
83	Dynamic Behavior of Premixed Flames Propagating in Non-Uniform Velocity Fields â€"Assessment of Intrinsic Instability in Turbulent Combustionâ€". Transactions of the Japan Society for Aeronautical and Space Sciences, 2009, 51, 244-251.	0.4	6
84	â€œOn the validity of quasi-steady assumption in transient droplet combustionâ€•[Combust. Flame Vol. 155, Issue 3]. Combustion and Flame, 2008, 155, 409.	2.8	0
85	Characteristics of Pyrolysis and Combustion of Polymers in Stagnation-Point Flow for Preheated and Diluted Air with H2O and CO2. Combustion Science and Technology, 2008, 181, 159-175.	1.2	2
86	Numerical Study of Radiation Effects on Polypropylene Combustion Using High-temperature Oxidizer Diluted with H2O and CO2. Journal of Thermal Science and Technology, 2008, 3, 167-178.	0.6	8
87	Effect of the Location of an Incident Shock Wave on Combustion and Flow Field of Wall Fuel-Injection. Transactions of the Japan Society for Aeronautical and Space Sciences, 2008, 51, 170-175.	0.4	9
88	High-Pressure Combustion Phenomena. , 2007, , 893.		0
89	Effects of CO2 dilution on turbulent premixed flames at high pressure and high temperature. Proceedings of the Combustion Institute, 2007, 31, 1451-1458.	2.4	97
90	Effects of Turbulence on Flame Structure and NOx Emission of Turbulent Jet Non-Premixed Flames in High-Temperature Air Combustion. JSME International Journal Series B, 2005, 48, 286-292.	0.3	7

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91	Laminar Burning Velocity of Stoichiometric CH4/air Premixed Flames at High-Pressure and High-Temperature. JSME International Journal Series B, 2005, 48, 603-609.	0.3	27
92	The unstable behavior of cellular premixed flames induced by intrinsic instability. Proceedings of the Combustion Institute, 2005, 30, 169-176.	2.4	85
93	Burning velocity correlation of methane/air turbulent premixed flames at high pressure and high temperature. Proceedings of the Combustion Institute, 2005, 30, 827-834.	2.4	151
94	Effect of heat release distribution on combustion oscillation. Proceedings of the Combustion Institute, 2005, 30, 1799-1806.	2.4	38
95	Droplet combustion experiments in varying forced convection using microgravity environment. International Journal of Heat and Fluid Flow, 2005, 26, 914-921.	1.1	10
96	Numerical and Experimental Studies of Injection Modeling for Supersonic Flame-Holding. Journal of Propulsion and Power, 2005, 21, 504-511.	1.3	9
97	Structures and Stability of Lifted Combustion Zones in Preheated Oxidizer.. JSME International Journal Series B, 2002, 45, 499-505.	0.3	2
98	Microgravity experiments on flame spread of an n-decanedroplet array in a high-pressure environment. Proceedings of the Combustion Institute, 2002, 29, 2603-2610.	2.4	37
99	Flame propagation of n-decane spray in microgravity. Proceedings of the Combustion Institute, 2002, 29, 2621-2626.	2.4	18
100	NOx emission from high-temperature air/methane counterflow diffusion flame. International Journal of Thermal Sciences, 2002, 41, 693-698.	2.6	41
101	Experimental study of high-pressure turbulent premixed flames. Experimental Thermal and Fluid Science, 2002, 26, 375-387.	1.5	73
102	Relationship between the smallest scale of flame wrinkles and turbulence characteristics of high-pressure, high-temperature turbulent premixed flames. Proceedings of the Combustion Institute, 2002, 29, 1793-1800.	2.4	77
103	Combined effects of nongray radiation and pressure on premixed CH4/O2/CO2 flames. Combustion and Flame, 2001, 124, 225-230.	2.8	61
104	Research of Combustion Phenomena in a High-Pressure Environment.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2000, 66, 1257-1263.	0.2	0
105	Measurement and analysis of flame surface density for turbulent premixed combustion on a nozzle-type burner. Combustion and Flame, 2000, 122, 43-57.	2.8	45
106	A numerical study of pulsating flame propagation in mixtures of gas and particles. Proceedings of the Combustion Institute, 2000, 28, 815-822.	2.4	54
107	Laminar burning velocity of hydrogenâ€"air premixed flames at elevated pressure. Experimental Thermal and Fluid Science, 2000, 21, 58-63.	1.5	92
108	Flame instability effects on the smallest wrinkling scale and burning velocity of high-pressure turbulent premixed flames. Proceedings of the Combustion Institute, 2000, 28, 375-382.	2.4	91

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109	Microgravity Ignition Experiment on a Droplet Array in High-Temperature Low-Speed Airflow. Combustion Science and Technology, 2000, 153, 169-178.	1.2	3
110	Experimental and numerical study of flame ball IR and UV emissions. Combustion and Flame, 1999, 116, 348-359.	2.8	27
111	A lean flammability limit of polymethylmethacrylate particle-cloud in microgravity. Combustion and Flame, 1999, 118, 359-369.	2.8	11
112	A study of flame spread along a droplet array at elevated pressures up to a supercritical pressure. International Journal of Energy Research, 1999, 23, 813-826.	2.2	5
113	Flame spread behaviour of blended fuel droplet array. International Journal of Energy Research, 1999, 23, 1305-1312.	2.2	1
114	Pulsating flame propagation of PMMA particle cloud in microgravity. Proceedings of the Combustion Institute, 1998, 27, 2675-2681.	0.3	21
115	Experimental study on general correlation of turbulent burning velocity at high pressure. Proceedings of the Combustion Institute, 1998, 27, 941-948.	0.3	119
116	Experiments on Flame Spread of a Fuel Droplet Array in a High-Pressure Ambience.. JSME International Journal Series B, 1998, 41, 322-330.	0.3	22
117	Turbulence measurements and observations of turbulent premixed flames at elevated pressures up to 3.0 MPa. Combustion and Flame, 1997, 108, 104-117.	2.8	114
118	Burning velocity of turbulent premixed flames in a high-pressure environment. Proceedings of the Combustion Institute, 1996, 26, 389-396.	0.3	165
119	An experimental study on particle-cloud flames in a microgravity field. Proceedings of the Combustion Institute, 1996, 26, 1369-1375.	0.3	7
120	Flame stabilization characteristics of strut divided into two parts in supersonic airflow. Journal of Propulsion and Power, 1995, 11, 112-116.	1.3	52
121	Ignition experiment of a fuel droplet in high-pressure high-temperature ambient. Proceedings of the Combustion Institute, 1994, 25, 447-453.	0.3	29
122	Flame propagation experiment of PMMA particle cloud in a microgravity environment. Proceedings of the Combustion Institute, 1994, 25, 1693-1699.	0.3	13
123	Effects Of Equivalence Ratio On the Extinction Stretch Rate Of Cylindrical Premixed Flames. Combustion Science and Technology, 1993, 89, 253-263.	1.2	11
124	Evaporation and Mixing Promotion and Combustion of Liquid Fuel by Air Bubble Blowing.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1993, 59, 3974-3980.	0.2	1
125	Sooting Limit of a Droplet Flame. Combustion Science and Technology, 1991, 78, 19-31.	1.2	3
126	Flow Fields and Extinction of Stretched Cylindrical PremixedFlames. Combustion Science and Technology, 1991, 75, 227-239.	1.2	24

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127	Dimensional effects of nozzle-type burner on flow fields and extinction of counterflow twin flames.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1991, 57, 1141-1146.	0.2	6
128	A study of cylindrical premixed flames with heat loss. Combustion and Flame, 1989, 76, 89-105.	2.8	18
129	Extinction characteristics of a stretched cylindrical premixed flame. Combustion and Flame, 1989, 76, 285-295.	2.8	66
130	Sooting limit of a double diffusion flame.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1989, 55, 1979-1984.	0.2	0
131	An Analysis of a Stretched Cylindrical Premixed Flame. Combustion Science and Technology, 1988, 57, 17-36.	1.2	21
132	A study on the extinction of a stretched cylindrical premixed flame.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1986, 52, 3811-3817.	0.2	11