R P Lindstedt

List of Publications by Year
in descending order

105 papers	5,297 citations	101543 36 h-index	85541 71 g-index
106 all docs	106 docs citations	106 times ranked	2534 citing authors

#	Article	IF	Citations
1	Evaluation of Hazard Correlations for Hydrogen-Rich Fuels Using Stretched Transient Flames. Green Energy and Technology, 2022, , 197-222.	0.6	0
2	The impact of molecular diffusion on auto-ignition in a turbulent flow. Combustion and Flame, 2022, 239, 111665.	5.2	5
3	The evolution of species concentrations in turbulent premixed flames crossing the soot inception limit. Combustion and Flame, 2022, 235, 111726.	5.2	3
4	Particle size distributions in turbulent premixed ethylene flames crossing the soot inception limit. Combustion and Flame, 2022, 243, 111978.	5.2	2
5	Quantification of PAH concentrations in premixed turbulent flames crossing the soot inception limit. Proceedings of the Combustion Institute, 2021, 38, 1163-1172.	3.9	9
6	Fully coupled sectional modelling of soot particle dynamics in a turbulent diffusion flame. Proceedings of the Combustion Institute, 2021, 38, 1365-1373.	3.9	18
7	Itâ€™s a Gas: Oxidative Dehydrogenation of Propane over Boron Nitride Catalysts. Journal of Physical Chemistry C, 2021, 125, 5623-5634.	3.1	28
8	Parametric sensitivities of the generalized binomial Langevinâ€“multiple mapping conditioning model. Physics of Fluids, 2021, 33, 045109.	4.0	1
9	Quantification of fuel chemistry effects on burning modes in turbulent premixed flames. Combustion and Flame, 2020, 218, 134-149.	5.2	4
10	The reactivity of hydrogen enriched turbulent flames. Chemical Engineering Research and Design, 2020, 143, 66-75.	5.6	11
11	Auto-Ignition of Hydrogen-Rich Syngas-Related Fuels in a Turbulent Shear Layer. Green Energy and Technology, 2020, , 333-356.	0.6	0
12	Transported probability density function based modelling of soot particle size distributions in non-premixed turbulent jet flames. Proceedings of the Combustion Institute, 2019, 37, 1049-1056.	3.9	24
13	Quantification of low DamkÃ¶hler number turbulent premixed flames. Proceedings of the Combustion Institute, 2019, 37, 2373-2381.	3.9	8
14	A mixture-fraction-based hybrid binomial Langevin-multiple mapping conditioning model. Proceedings of the Combustion Institute, 2019, 37, 2151-2158.	3.9	6
15	Evaluation of reaction progress variable - mixture fraction statistics in partially premixed flames. Proceedings of the Combustion Institute, 2019, 37, 2241-2248.	3.9	18
16	Impact of molecular mixing and scalar dissipation rate closures on turbulent bluff-body flames with increasing local extinction. Combustion and Flame, 2019, 206, 51-67.	5.2	4
17	The impact of hydrogen enrichment on the flow field evolution in turbulent explosions. Combustion and Flame, 2019, 203, 105-119.	5.2	12
18	Experimental study of turbulent explosions in hydrogen enriched syngas related fuels. Chemical Engineering Research and Design, 2018, 116, 663-676.	5.6	26

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19	Joint-scalar transported PDF modelling of soot in a turbulent non-premixed natural gas flame. Combustion Theory and Modelling, 2018, 22, 1134-1175.	1.9	15
20	Quantification of External Enthalpy Controlled Combustion at Unity DamkÃ¶hler Number. Green Energy and Technology, 2018, , 189-215.	0.6	1
21	Reaction class-based frameworks for heterogeneous catalytic systems. Proceedings of the Combustion Institute, 2017, 36, 4329-4338.	3.9	8
22	Thermal radiation induced ignition of multipoint turbulent explosions. Chemical Engineering Research and Design, 2017, 107, 108-121.	5.6	8
23	Microkinetic Mechanisms for Partial Oxidation of Methane over Platinum and Rhodium. Journal of Physical Chemistry C, 2017, 121, 9442-9453.	3.1	22
24	Quantification of combustion regime transitions in premixed turbulent DME flames. Combustion and Flame, 2017, 182, 248-268.	5.2	27
25	Variational Transition State Theory-Based Surface Chemistry for the C₂H₆/H₂/O₂/Pt System. Energy & Fuels, 2017, 31, 2217-2227.	5.1	5
26	The impact of dilatation, scrambling, and pressure transport in turbulent premixed flames. Combustion Theory and Modelling, 2017, 21, 1114-1147.	1.9	9
27	Strain distribution on material surfaces during combustion regime transitions. Proceedings of the Combustion Institute, 2017, 36, 1911-1918.	3.9	15
28	Fractal Grid Generated Turbulenceâ€”A Bridge to Practical Combustion Applications. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2016, , 75-102.	0.6	3
29	Time-resolved temperature measurements for inert and reactive particles in explosive atmospheres. Proceedings of the Combustion Institute, 2015, 35, 2067-2074.	3.9	15
30	Thermal radiation from vapour cloud explosions. Chemical Engineering Research and Design, 2015, 94, 517-527.	5.6	19
31	Turbulent transport in premixed flames approaching extinction. Proceedings of the Combustion Institute, 2015, 35, 1469-1476.	3.9	14
32	Lean premixed opposed jet flames in fractal grid generated multiscale turbulence. Combustion and Flame, 2014, 161, 2419-2434.	5.2	41
33	Regime transition from premixed to flameless oxidation in turbulent JP-10 flames. Proceedings of the Combustion Institute, 2013, 34, 3311-3318.	3.9	30
34	A comparative ab initio study of hydrogen abstraction from n-propyl benzene. Combustion and Flame, 2013, 160, 2642-2653.	5.2	41
35	Modeling of soot particle size distributions in premixed stagnation flow flames. Proceedings of the Combustion Institute, 2013, 34, 1861-1868.	3.9	73
36	Flames in fractal grid generated turbulence. Fluid Dynamics Research, 2013, 45, 061403.	1.3	23

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37	Ignition of fuel/air mixtures by radiatively heated particles. Proceedings of the Combustion Institute, 2013, 34, 2065-2072.	3.9	26
38	Hybrid multiple mapping conditioning modeling of local extinction. Proceedings of the Combustion Institute, 2013, 34, 1365-1372.	3.9	17
39	The Response of Transient Inhomogeneous Flames to Pressure Fluctuations and Stretch: Planar and Outwardly Propagating Methane/Air Flames. Combustion Science and Technology, 2012, 184, 1799-1817.	2.3	5
40	Gas turbine related technologies for carbon capture. Sustainable Technologies Systems & Policies, 2012, , 12.	0.0	0
41	The dynamics of partial oxidation of ethane over platinum. Proceedings of the Combustion Institute, 2011, 33, 1809-1817.	3.9	7
42	Turbulent burning velocity predictions using transported PDF methods. Proceedings of the Combustion Institute, 2011, 33, 1277-1284.	3.9	16
43	On the chemical kinetics of cyclopentadiene oxidation. Combustion and Flame, 2011, 158, 666-686.	5.2	72
44	Fractal-Generated Turbulence in Opposed Jet Flows. Flow, Turbulence and Combustion, 2010, 85, 397-419.	2.6	42
45	The Response of Transient Inhomogeneous Flames to Pressure Fluctuations and Stretch: Planar and Outwardly Propagating Hydrogen/Air Flames. Combustion Science and Technology, 2010, 182, 1171-1192.	2.3	6
46	Hybrid binomial Langevin-multiple mapping conditioning modeling of a reacting mixing layer. Physics of Fluids, 2009, 21, .	4.0	16
47	Transported PDF Modelling of a High Velocity Bluff-Body Stabilised Flame (HM2) Using Detailed Chemistry. Flow, Turbulence and Combustion, 2009, 82, 493-509.	2.6	12
48	Analysis of the impact of agglomeration and surface chemistry models on soot formation and oxidation. Proceedings of the Combustion Institute, 2009, 32, 713-720.	3.9	45
49	Piloted jet flames of CH4/H2/air: Experiments on localized extinction in the near field at high Reynolds numbers. Combustion and Flame, 2009, 156, 2117-2128.	5.2	19
50	The impact of reduced chemistry on auto-ignition of H₂ in turbulent flows. Combustion Theory and Modelling, 2009, 13, 607-643.	1.9	24
51	The chemistry of ethane dehydrogenation over a supported platinum catalyst. Journal of Catalysis, 2008, 260, 37-64.	6.2	52
52	Transported PDF modelling with detailed chemistry of pre- and auto-ignition in CH4/air mixtures. Proceedings of the Combustion Institute, 2007, 31, 1559-1566.	3.9	64
53	Velocity fields of fuel lean premixed turbulent opposed jet flames. Proceedings of the Combustion Institute, 2007, 31, 1459-1466.	3.9	16
54	Progression of localized extinction in high Reynolds number turbulent jet flames. Proceedings of the Combustion Institute, 2007, 31, 1551-1558.	3.9	20

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55	Large-eddy simulation of a bluff-body stabilized nonpremixed flame. Combustion and Flame, 2006, 144, 170-189.	5.2	117
56	Transported PDF modeling of high-Reynolds-number premixed turbulent flames. Combustion and Flame, 2006, 145, 495-511.	5.2	92
57	Systematically reduced chemical mechanisms for sulfur oxidation and pyrolysis. Combustion and Flame, 2006, 146, 437-455.	5.2	70
58	NO Reburn and Formation Chemistry in Methane Diffusion Flames. Zeitschrift Fur Physikalische Chemie, 2005, 219, 679-698.	2.8	2
59	Laser-induced fluorescence measurements and modeling of absolute CH concentrations in strained laminar methane/air diffusion flames. Proceedings of the Combustion Institute, 2005, 30, 455-463.	3.9	11
60	Transported probability density function modeling of a bluff body stabilized turbulent flame. Proceedings of the Combustion Institute, 2005, 30, 767-774.	3.9	28
61	Joint scalar transported PDF modeling of nonpiloted turbulent diffusion flames. Combustion and Flame, 2005, 143, 471-490.	5.2	21
62	Joint-scalar transported PDF modeling of soot formation and oxidation. Proceedings of the Combustion Institute, 2005, 30, 775-783.	3.9	90
63	A systematically reduced reaction mechanism for sulphur oxidation. Proceedings of the Combustion Institute, 2005, 30, 1227-1235.	3.9	38
64	Velocity and Strain-Rate Characteristics of Opposed Isothermal Flows. Flow, Turbulence and Combustion, 2005, 74, 169-194.	2.6	35
65	Finite Rate Chemistry Effects in Turbulent Reacting Flows. Flow, Turbulence and Combustion, 2004, 72, 407-426.	2.6	23
66	Counterflow flames of air and methane, propane and ethylene, with and without periodic forcing. Experiments in Fluids, 2003, 35, 618-626.	2.4	13
67	Joint scalar transported probability density function modeling of turbulent methanol jet diffusion flames. Proceedings of the Combustion Institute, 2002, 29, 2147-2154.	3.9	35
68	The formation and oxidation of aromatics in cyclopentene and methyl-cyclopentadiene mixtures. Proceedings of the Combustion Institute, 2002, 29, 2291-2298.	3.9	42
69	A dimensionally reduced reaction mechanism for methanol oxidation. Proceedings of the Combustion Institute, 2002, 29, 1395-1402.	3.9	61
70	Thermodynamic and kinetic issues in the formation and oxidation of aromatic species. Faraday Discussions, 2001, 119, 409-432.	3.2	117
71	Joint scalar probability density function modeling of pollutant formation in piloted turbulent jet diffusion flames with comprehensive chemistry. Proceedings of the Combustion Institute, 2000, 28, 149-156.	3.9	143
72	Molecular growth and oxygenated species formation in laminar ethylene flames. Proceedings of the Combustion Institute, 2000, 28, 1801-1807.	3.9	35

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73	The modelling of direct chemical kinetic effects in turbulent flames. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2000, 214, 177-189.	1.3	5
74	Detailed Chemical-Kinetic Model for Aviation Fuels. Journal of Propulsion and Power, 2000, 16, 187-195.	2.2	147
75	Modeling of premixed turbulent flames with second moment methods. Combustion and Flame, 1999, 116, 461-485.	5.2	98
76	Parallel Processing and Direct Simulation of Transient Premixed Laminar Flames with Detailed Chemical Kinetics. , 1999, , 417-428.		1
77	Time Resolved Velocity and Turbulence Measurements in Turbulent Gaseous Explosions. Combustion and Flame, 1998, 114, 469-483.	5.2	29
78	Absolute radical concentration measurements and modeling of low-pressure CH4/O2/NO flames. Proceedings of the Combustion Institute, 1998, 27, 469-476.	0.3	52
79	Second moment modeling of premixed turbulent flames stabilized in impinging jet geometries. Proceedings of the Combustion Institute, 1998, 27, 957-962.	0.3	15
80	Joint Scalar-velocity pdf Modelling of Finite Rate Chemistry in a Scalar Mixing Layer. Combustion Science and Technology, 1998, 136, 303-331.	2.3	15
81	Soot Modeling in Gas Turbine Combustors. , 1997, , .		5
82	Chemistry of Acetylene Flames. Combustion Science and Technology, 1997, 125, 73-137.	2.3	126
83	Detailed Kinetic Modelling of Toluene Combustion. Combustion Science and Technology, 1996, 120, 119-167.	2.3	94
84	Modelling of unclosed nonlinear terms in a pdf closure for turbulent flames. Mathematical and Computer Modelling, 1996, 24, 137-147.	2.0	4
85	Investigations to improve and assess the accuracy of computational fluid dynamic based explosion models. Journal of Hazardous Materials, 1996, 45, 1-25.	12.4	65
86	Benene formation chemistry in premixed 1,3-butadiene flames. Proceedings of the Combustion Institute, 1996, 26, 703-709.	0.3	44
87	Detailed kinetic modeling of C1 â€" C3 alkane diffusion flames. Combustion and Flame, 1995, 102, 129-160.	5.2	228
88	DETAILED KINETIC MODELLING OF N-HEPTANE COMBUSTION. Combustion Science and Technology, 1995, 107, 317-353.	2.3	147
89	A Detailed Kinetic Study of Ammonia Oxidation. Combustion Science and Technology, 1995, 108, 231-254.	2.3	69
90	Transient Flame Growth in a Developing Shear Layer. , 1995, , 389-409.		1

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91	Reduced Reaction Mechanisms for Ammonia Oxidation in Premixed Laminar Flames. Combustion Science and Technology, 1994, 99, 277-298.	2.3	30
92	Detailed kinetic modeling of premixed benzene flames. Combustion and Flame, 1994, 99, 551-561.	5.2	109
93	Detailed Kinetic Modelling of Chemistry and Temperature Effects on Ammonia Oxidation. Combustion Science and Technology, 1994, 99, 253-276.	2.3	156
94	Reduced Kinetic Mechanisms for Propane Diffusion Flames. Lecture Notes in Physics Monographs, 1993, , 259-283.	0.5	13
95	Reduced Kinetic Mechanisms for Acetylene Diffusion Flames. Lecture Notes in Physics Monographs, 1993, , 241-258.	0.5	5
96	Predictions of soot formation in turbulent, non-premixed propane flames. Proceedings of the Combustion Institute, 1992, 24, 1067-1074.	0.3	57
97	Predictions of radiative transfer from a turbulent reacting jet in a cross-wind. Combustion and Flame, 1992, 89, 45-63.	5.2	155
98	A Simple Reaction Mechanism for Soot Formation in Non-Premixed Flames. , 1992, , 145-156.		5
99	Predictions of a turbulent reacting jet in a cross-flow. Combustion and Flame, 1991, 84, 361-375.	5.2	61
100	A simplified reaction mechanism for soot formation in nonpremixed flames. Combustion and Flame, 1991, 87, 289-305.	5.2	519
101	Premixed turbulent burning velocities derived from mixing controlled reaction models with cold front quenching. Combustion and Flame, 1991, 85, 427-439.	5.2	57
102	Deflagration to detonation transitions and strong deflagrations in alkane and alkene air mixtures. Combustion and Flame, 1989, 76, 169-181.	5.2	90
103	Global reaction schemes for hydrocarbon combustion. Combustion and Flame, 1988, 73, 233-249.	5.2	847
104	Deflagration to detonation transition in mixtures of alkane LNG/LPG constituents with O2N2. Combustion and Flame, 1988, 72, 63-72.	5.2	32
105	The Calculation of the Structure of Laminar Counterflow Diffusion Flames Using a Global Reaction Mechanism. Combustion Science and Technology, 1988, 61, 31-49.	2.3	32