

Remy Mevel

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

1,258
citations

361413

20
h-index

414414

32
g-index

65
all docs

65
docs citations

65
times ranked

512
citing authors

#	ARTICLE	IF	CITATIONS
1	Ray-tracking methods for characterizing the dynamics of curved detonation. <i>Physics of Fluids</i> , 2022, 34, .	4.0	3
2	Fourier and wavelet transform analysis of wavelength modulation spectroscopy signal. <i>Applied Physics B: Lasers and Optics</i> , 2022, 128, .	2.2	2
3	Combustion of silane-nitrous oxide-argon mixtures: Analysis of laminar flame propagation and condensed products. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 2235-2245.	3.9	7
4	Current status of the high-temperature kinetic models of silane: Part II. Oxidation. <i>Combustion and Flame</i> , 2021, 227, 538-549.	5.2	5
5	Current status of the high-temperature kinetic models of silane: Part I. Pyrolysis. <i>Combustion and Flame</i> , 2021, 227, 526-537.	5.2	10
6	A chemically consistent rate constant for the reaction of nitrogen dioxide with the oxygen atom. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 585-596.	2.8	3
7	Effect of the reactor model on steady detonation modeling. <i>Shock Waves</i> , 2021, 31, 323-335.	1.9	11
8	On the self-similarity of diffracting gaseous detonations and the critical channel width problem. <i>Physics of Fluids</i> , 2021, 33, .	4.0	14
9	Unsteady propagation of detonation with multi-stage heat release. <i>Fuel</i> , 2021, 296, 120666.	6.4	9
10	Effect of the excitation line on hydroxyl radical imaging by laser induced fluorescence in hydrogen detonations. <i>Combustion and Flame</i> , 2021, 229, 111399.	5.2	12
11	Fluorescence mixture properties for accurate laminar flame speed measurement from spherically expanding flames: Application to H ₂ /O ₂ /N ₂ mixtures. <i>Shock Waves</i> , 2021, 31, 323-335.	5.2	10
12	Direct detonation initiation: A comparison between the critical curvature and critical decay rate models. <i>Physics of Fluids</i> , 2021, 33, .	4.0	5
13	Shock wave refraction patterns at a slow-fast gas-gas interface at superknock relevant conditions. <i>Physics of Fluids</i> , 2021, 33, 116101.	4.0	1
14	Modeling of spontaneous Raman scattering for detonation wave imaging. <i>Physics of Fluids</i> , 2021, 33, 126115.	4.0	1
15	Spherically expanding flame in silane-hydrogen-nitrous oxide-argon mixtures. <i>Combustion and Flame</i> , 2020, 221, 150-159.	5.2	13
16	Effect of incident laser sheet orientation on the OH-PLIF imaging of detonations. <i>Shock Waves</i> , 2020, 30, 689-702.	1.9	12
17	Effect of hydroxyl radical precursor addition on LTC-affected detonation in DME-CO mixtures. <i>Shock Waves</i> , 2020, 30, 789-798.	1.9	7
18	Effect of 2-step energy release on direct detonation initiation by a point energy source in a rich H ₂ -NO ₂ /N ₂ O ₄ mixture. <i>Combustion and Flame</i> , 2020, 222, 317-325.	5.2	10

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19	Effect of volumetric expansion on shock-induced ignition of H ₂ /NO ₂ /N ₂ O ₄ mixtures. <i>Combustion and Flame</i> , 2020, 215, 425-436.	5.2	9
20	Correction of reaction models using collision limit violation analyses: Application to a silane reaction model. <i>Combustion and Flame</i> , 2020, 217, 346-359.	5.2	13
21	Effect of oxygen atom precursors addition on LTC-affected detonation in DME-CO mixtures. <i>Shock Waves</i> , 2020, 30, 799-807.	1.9	12
22	Optical regime diagram of the shock tube/pulsed laser-induced fluorescence imaging technique. <i>Chemical Physics Letters</i> , 2019, 730, 283-288.	2.6	5
23	Numerical study of the transition between slow reaction and ignition in a cylindrical vessel. <i>Combustion and Flame</i> , 2019, 204, 116-136.	5.2	5
24	Ignition characteristics of dual-fuel methane-n-hexane-oxygen-diluent mixtures in a rapid compression machine and a shock tube. <i>Fuel</i> , 2019, 249, 379-391.	6.4	18
25	Experimental and numerical study of the ignition of hydrogen-air mixtures by a localized stationary hot surface. <i>International Journal of Heat and Fluid Flow</i> , 2019, 76, 154-169.	2.4	17
26	Oxidation of n-hexane in the vicinity of the auto-ignition temperature. <i>Fuel</i> , 2019, 236, 373-381.	6.4	7
27	Ignition of hydrogen-air mixtures under volumetric expansion. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 3503-3511.	3.9	8
28	An updated reaction model for the high-temperature pyrolysis and oxidation of acetaldehyde. <i>Fuel</i> , 2018, 217, 226-239.	6.4	19
29	Role of low-temperature chemistry in detonation of n-heptane/oxygen/diluent mixtures. <i>Combustion and Flame</i> , 2018, 193, 463-470.	5.2	23
30	Experimental and numerical study on moving hot particle ignition. <i>Combustion and Flame</i> , 2018, 192, 495-506.	5.2	27
31	Shock wave and flame front induced detonation in a rapid compression machine. <i>Shock Waves</i> , 2018, 28, 1109-1116.	1.9	9
32	Structure of detonation propagating in lean and rich dimethyl ether/oxygen mixtures. <i>Shock Waves</i> , 2018, 28, 955-966.	1.9	22
33	Dynamics of ignition of stoichiometric hydrogen-air mixtures by moving heated particles. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 7380-7392.	7.1	19
34	Effects of differential diffusion on ignition of stoichiometric hydrogen-air by moving hot spheres. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 1155-1163.	3.9	18
35	Hot surface ignition of stoichiometric hydrogen-air mixtures. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 7393-7403.	7.1	31
36	Models for shock-induced ignition evaluated by detailed chemical kinetics for hydrogen/air in the context of deflagration-to-detonation transition. <i>Journal of Loss Prevention in the Process Industries</i> , 2017, 49, 731-738.	3.3	5

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37	Ignition of fuel-air mixtures from a hot circular cylinder. <i>Combustion and Flame</i> , 2017, 185, 265-277.	5.2	17
38	Detonation wave diffraction in H ₂ -O ₂ -Ar mixtures. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 2781-2789.	3.9	40
39	Chemical Kinetics of n-Hexane-Air Atmospheres in the Boundary Layer of a Moving Hot Sphere. <i>Combustion Science and Technology</i> , 2016, 188, 2267-2283.	2.3	7
40	Hot Surface Ignition of n-Hexane Mixtures Using Simplified Kinetics. <i>Combustion Science and Technology</i> , 2016, 188, 2060-2076.	2.3	14
41	Fundamental combustion properties of oxygen enriched hydrogen/air mixtures relevant to safety analysis: Experimental and simulation study. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 6905-6916.	7.1	19
42	High-speed OH-PLIF imaging of deflagration-to-detonation transition in H ₂ -air mixtures. <i>Experiments in Fluids</i> , 2016, 57, 1.	2.4	8
43	Detonation in hydrogen-nitrous oxide-diluent mixtures: An experimental and numerical study. <i>Combustion and Flame</i> , 2015, 162, 1638-1649.	5.2	40
44	Modeling of Rayleigh scattering imaging of detonation waves: Quantum computation of Rayleigh cross-sections and real diagnostic effects. <i>Combustion and Flame</i> , 2015, 162, 2191-2199.	5.2	6
45	Ignition delay-time behind reflected shock waves of small hydrocarbons-nitrous oxide-oxygen mixtures. <i>Shock Waves</i> , 2015, 25, 217-229.	1.9	42
46	Ignition and chemical kinetics of acrolein-oxygen-argon mixtures behind reflected shock waves. <i>Fuel</i> , 2014, 135, 498-508.	6.4	24
47	Application of a laser induced fluorescence model to the numerical simulation of detonation waves in hydrogen-oxygen-diluent mixtures. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 6044-6060.	7.1	34
48	Low temperature oxidation of n-hexane in a flow reactor. <i>Fuel</i> , 2014, 126, 282-293.	6.4	25
49	Experimental study of minimum ignition energy of lean H ₂ -N ₂ O mixtures. <i>Proceedings of the Combustion Institute</i> , 2013, 34, 895-902.	3.9	29
50	Measurement of the absorption cross sections of SiCl ₄ , SiCl ₃ , SiCl ₂ and Cl at H Lyman-wavelength. <i>Chemical Physics Letters</i> , 2013, 561-562, 31-35.	2.6	3
51	Dynamics of excited hydroxyl radicals in hydrogen-based mixtures behind reflected shock waves. <i>Proceedings of the Combustion Institute</i> , 2013, 34, 677-684.	3.9	23
52	The effect of heating rates on low temperature hexane air combustion. <i>Fuel</i> , 2012, 96, 392-403.	6.4	25
53	Assessment of H ₂ -CH ₄ -air mixtures oxidation kinetic models used in combustion. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 698-714.	7.1	13
54	Absorption cross section at 3.39 μ m of alkanes, aromatics and substituted hydrocarbons. <i>Chemical Physics Letters</i> , 2012, 531, 22-27.	2.6	31

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55	Flame burning speeds and combustion characteristics of undiluted and nitrogen-diluted hydrogen–nitrous oxide mixtures. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 10107-10116.	7.1	49
56	Numerical study of the detonation structure in rich H ₂ –NO ₂ /N ₂ O ₄ and very lean H ₂ –N ₂ O mixtures. <i>Shock Waves</i> , 2011, 21, 85-99.	1.9	28
57	A chemical kinetic study of the oxidation of silane by nitrous oxide, nitric oxide and oxygen. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 485-492.	3.9	38
58	Critical energy for direct initiation of spherical detonations in H ₂ /N ₂ O/Ar mixtures. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 5707-5716.	7.1	70
59	Elementary kinetics for gas phase combustion of SiCl ₄ based mixtures. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 477-484.	3.9	7
60	Oxygen atom kinetics in silane–hydrogen–nitrous oxide mixtures behind reflected shock waves. <i>Chemical Physics Letters</i> , 2010, 500, 223-228.	2.6	17
61	A study of N ₂ O decomposition rate constant at high temperature: Application to the reduction of nitrous oxide by hydrogen. <i>International Journal of Chemical Kinetics</i> , 2009, 41, 357-375.	1.6	48
62	Spherical expanding flames in H ₂ –N ₂ O–Ar mixtures: flame speed measurements and kinetic modeling. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 9007-9018.	7.1	52
63	Hydrogen–nitrous oxide delay times: Shock tube experimental study and kinetic modelling. <i>Proceedings of the Combustion Institute</i> , 2009, 32, 359-366.	3.9	112
64	Induction Delay Times and Detonation Cell Size Prediction of Hydrogen-Nitrous Oxide-Diluent Mixtures. <i>Combustion Science and Technology</i> , 2008, 180, 1858-1875.	2.3	35