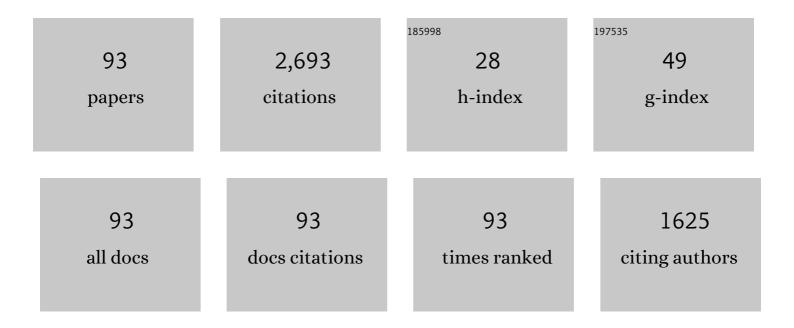
Nabiha Chaumeix

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Characterization of the effects of pressure and hydrogen concentration on laminar burning velocities of methane–hydrogen–air mixtures. Proceedings of the Combustion Institute, 2005, 30, 201-208.	2.4	343
2	Laminar flame velocity determination for H2–air–He–CO2 mixtures using the spherical bomb method. Experimental Thermal and Fluid Science, 2003, 27, 385-393.	1.5	206
3	Burning velocities of dimethyl ether and air. Combustion and Flame, 2001, 125, 1329-1340.	2.8	141
4	Hydrogen–nitrous oxide delay times: Shock tube experimental study and kinetic modelling. Proceedings of the Combustion Institute, 2009, 32, 359-366.	2.4	112
5	The combustion chemistry of a fuel tracer: Measured flame speeds and ignition delays and a detailed chemical kinetic model for the oxidation of acetone. Combustion and Flame, 2009, 156, 494-504.	2.8	98
6	Experimental and modelling study of gasoline surrogate mixtures oxidation in jet stirred reactor and shock tube. Proceedings of the Combustion Institute, 2007, 31, 385-391.	2.4	73
7	Chemical Kinetic Model for Monomethylhydrazine/Nitrogen Tetroxide Gas Phase Combustion and Hypergolic Ignition. Journal of Propulsion and Power, 2004, 20, 87-92.	1.3	66
8	Experimental study of soot formation from a diesel fuel surrogate in a shock tube. Combustion and Flame, 2009, 156, 1576-1586.	2.8	61
9	Experimental and modeling study of 1-hexene oxidation behind reflected shock waves. Proceedings of the Combustion Institute, 2005, 30, 1137-1145.	2.4	57
10	Kinetics of 1-hexene oxidation in a JSR and a shock tube: Experimental and modeling study. Combustion and Flame, 2006, 147, 67-78.	2.8	55
11	Comparison between FLACS explosion simulations and experiments conducted in a PWR Steam Generator casemate scale down with hydrogen gradients. Nuclear Engineering and Design, 2012, 245, 189-196.	0.8	53
12	Combustion Characteristics of Physically Mixed 40 nm Aluminum/Copper Oxide Nanothermites Using Laser Ignition. Frontiers in Chemistry, 2018, 6, 465.	1.8	53
13	Spherical expanding flames in H2–N2O–Ar mixtures: flame speed measurements and kinetic modeling. International Journal of Hydrogen Energy, 2009, 34, 9007-9018.	3.8	52
14	Experimental study of the kinetics of ethanol pyrolysis and oxidation behind reflected shock waves and in laminar flames. Proceedings of the Combustion Institute, 2015, 35, 393-400.	2.4	52
15	Laminar flame speeds of pentanol isomers: An experimental and modeling study. Combustion and Flame, 2016, 166, 1-18.	2.8	51
16	Experimental study on turbulent expanding flames of lean hydrogen/air mixtures. Proceedings of the Combustion Institute, 2017, 36, 2823-2832.	2.4	51
17	Laminar flame speeds of n -decane, n -butylbenzene, and n -propylcyclohexane mixtures. Proceedings of the Combustion Institute, 2015, 35, 671-678.	2.4	49
18	Experimental and Chemical Kinetic Modeling Study of 3-Pentanone Oxidation. Journal of Physical Chemistry A, 2010, 114, 12176-12186.	1.1	45

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#	Article	IF	CITATIONS
19	Experimental study of the effect of CF3I addition on the ignition delay time and laminar flame speed of methane, ethylene, and propane. Proceedings of the Combustion Institute, 2015, 35, 2731-2739.	2.4	41
20	Detonation in hydrogen–nitrous oxide–diluent mixtures: An experimental and numerical study. Combustion and Flame, 2015, 162, 1638-1649.	2.8	40
21	Visualizations of Gas-Phase NTO/MMH Reactivity. Journal of Propulsion and Power, 2006, 22, 120-126.	1.3	39
22	Role of chemical kinetics on the detonation properties of hydrogen /natural gas/air mixtures. International Journal of Hydrogen Energy, 2007, 32, 2216-2226.	3.8	39
23	Characterization of adsorbed species on soot formed behind reflected shock waves. Proceedings of the Combustion Institute, 2007, 31, 511-519.	2.4	39
24	Soot formation from heavy hydrocarbons behind reflected shock waves. Proceedings of the Combustion Institute, 2000, 28, 2523-2529.	2.4	37
25	Experimental and Modeling Study of n-Propylcyclohexane Oxidation under Engine-relevant Conditions. Energy & Fuels, 2009, 23, 2453-2466.	2.5	37
26	Induction Delay Times and Detonation Cell Size Prediction of Hydrogen-Nitrous Oxide-Diluent Mixtures. Combustion Science and Technology, 2008, 180, 1858-1875.	1.2	35
27	Search for Green Hypergolic Propellants: Gas-Phase Ethanol/Nitrogen Tetroxide Reactivity. Journal of Propulsion and Power, 2005, 21, 1057-1061.	1.3	32
28	Experimental study of laminar and turbulent flame speed of a spherical flame in a fan-stirred closed vessel for hydrogen safety application. Nuclear Engineering and Design, 2017, 312, 214-227.	0.8	31
29	Combustion properties of H2/N2/O2/steam mixtures. Proceedings of the Combustion Institute, 2019, 37, 1537-1546.	2.4	27
30	Effects of water sprays on flame propagation in hydrogen/air/steam mixtures. Proceedings of the Combustion Institute, 2015, 35, 2715-2722.	2.4	25
31	Laminar flame speed and shock-tube multi-species laser absorption measurements of Dimethyl Carbonate oxidation and pyrolysis near 1†atm. Proceedings of the Combustion Institute, 2021, 38, 977-985.	2.4	24
32	Dynamics of excited hydroxyl radicals in hydrogen-based mixtures behind reflected shock waves. Proceedings of the Combustion Institute, 2013, 34, 677-684.	2.4	23
33	Polycyclic Aromatic Hydrocarbon Growth by Diradical Cycloaddition/Fragmentation. Journal of Physical Chemistry A, 2017, 121, 5921-5931.	1.1	23
34	An experimental and kinetic modeling study of phenylacetylene decomposition and the reactions with acetylene/ethylene under shock tube pyrolysis conditions. Combustion and Flame, 2020, 220, 257-271.	2.8	23
35	Probing PAH formation chemical kinetics from benzene and toluene pyrolysis in a single-pulse shock tube. Proceedings of the Combustion Institute, 2021, 38, 891-900.	2.4	23
36	Comparative Study on Cyclohexane and Decalin Oxidation. Energy & amp; Fuels, 2014, 28, 714-724.	2.5	22

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37	Combustion properties of n-heptane/hydrogen mixtures. International Journal of Hydrogen Energy, 2019, 44, 2039-2052.	3.8	22
38	On the use of spray systems: An example of R&D work in hydrogen safety for nuclear applications. International Journal of Hydrogen Energy, 2009, 34, 5970-5975.	3.8	21
39	Biologically derived diesel fuel and NO formation. Combustion and Flame, 2011, 158, 2302-2313.	2.8	21
40	SARNET hydrogen deflagration benchmarks: Main outcomes and conclusions. Annals of Nuclear Energy, 2014, 74, 143-152.	0.9	21
41	lgnition by Electric Spark and by Laser-Induced Spark of Ultra-Lean CH4/Air and CH4/CO2/Air Mixtures at High Pressure. Combustion Science and Technology, 2014, 186, 1-23.	1.2	20
42	Flame propagation speed and Markstein length of spherically expanding flames: Assessment of extrapolation and measurement techniques. Proceedings of the Combustion Institute, 2019, 37, 1521-1528.	2.4	20
43	Ethyl Tertiary Butyl Ether Ignition and Combustion Using a Shock Tube and Spherical Bomb. Energy & Fuels, 2008, 22, 3701-3708.	2.5	19
44	Fundamental combustion properties of oxygen enriched hydrogen/air mixtures relevant to safety analysis: Experimental and simulation study. International Journal of Hydrogen Energy, 2016, 41, 6905-6916.	3.8	19
45	lgnition and oxidation of 1â€hexene/toluene mixtures in a shock tube and a jetâ€stirred reactor: Experimental and kinetic modeling study. International Journal of Chemical Kinetics, 2007, 39, 518-538.	1.0	17
46	An experimental and kinetic modeling study of benzene pyrolysis with C2â^'C3 unsaturated hydrocarbons. Combustion and Flame, 2022, 237, 111858.	2.8	17
47	Laser desorption–ionization time-of-flight mass spectrometry for analyses of heavy hydrocarbons adsorbed on soot formed behind reflected shock waves. Proceedings of the Combustion Institute, 2009, 32, 971-978.	2.4	15
48	A comparative kinetic study of C8–C10 linear alkylbenzenes pyrolysis in a single-pulse shock tube. Combustion and Flame, 2020, 221, 136-149.	2.8	15
49	Flammability Limits of Hydrogen-Air Mixtures. Nuclear Technology, 2012, 178, 5-16.	0.7	14
50	Hydrogen explosion in ITER: Effect of oxygen content on flame propagation of H2/O2/N2 mixtures. Fusion Engineering and Design, 2013, 88, 2669-2673.	1.0	14
51	Experimental study and calculations of nitric oxide absorption in the γ(0,0) and γ(1,0) bands for strong temperature conditions. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 90, 275-289.	1.1	13
52	Scattering/extinction measurements of soot formation in a shock tube. Experimental Thermal and Fluid Science, 2008, 32, 1354-1362.	1.5	13
53	Experimental and modeling study of styrene oxidation in spherical reactor and shock tube. Combustion and Flame, 2016, 173, 425-440.	2.8	13
54	Spherically expanding flame in silane–hydrogen–nitrous oxide–argon mixtures. Combustion and Flame. 2020. 221. 150-159.	2.8	13

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55	Detailed experimental and kinetic modeling study of toluene/C2 pyrolysis in a single-pulse shock tube. Combustion and Flame, 2021, 226, 129-142.	2.8	13
56	lgnition of a Combustible Mixture by a Hot Unsteady Gas Jet. Combustion Science and Technology, 1995, 104, 273-285.	1.2	12
57	Fast-flame limit for hydrogen/methane-air mixtures. Proceedings of the Combustion Institute, 2019, 37, 3661-3668.	2.4	12
58	Laminar Flame Speeds and Ignition Delay Times of Gasoline/Air and Gasoline/Alcohol/Air Mixtures: The Effects of Heavy Alcohol Compared to Light Alcohol. Energy & Fuels, 2021, 35, 14913-14923.	2.5	12
59	A comprehensive kinetic study on the speciation from propylene and propyne pyrolysis in a single-pulse shock tube. Combustion and Flame, 2021, 231, 111485.	2.8	11
60	Operational behavior of a passive auto-catalytic recombiner under low pressure conditions. Fusion Engineering and Design, 2017, 124, 1281-1286.	1.0	10
61	Prevention of hydrogen accumulation inside the vacuum vessel pressure suppression system of the ITER facility by means of passive auto-catalytic recombiners. International Journal of Hydrogen Energy, Tailored4mXtule\$16\$16\$perties for accurate laminar flame speed measurement from spherically	3.8	10
62	expanding flames: Application to H <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">altimg="si1.svg"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:mrow </mml:msub></mml:math> /O <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:msub><mml:mrow< td=""><td>2.8</td><td>10</td></mml:mrow<></mml:msub></mml:math 	2.8	10
63	/> <mml:mn>2</mml:mn> /N <mml:math xmlns:mml="http://www.w3.org/1998/Ma Ignition Delays of Heptane/O2/Ar Mixtures in the 1300-1600 K Temperature Range. Journal of Propulsion and Power, 2004, 20, 415-426.</mml:math 	1.3	9
64	Laser-assisted ignition and combustion characteristics of consolidated aluminum nanoparticles. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	9
65	Influence of initial pressure on hydrogen/air flame acceleration during severe accident in NPP. International Journal of Hydrogen Energy, 2019, 44, 9009-9017.	3.8	8
66	Pyrolysis of ethanol studied in a new high-repetition-rate shock tube coupled to synchrotron-based double imaging photoelectron/photoion coincidence spectroscopy. Combustion and Flame, 2021, 226, 53-68.	2.8	8
67	Detonation properties of stoichiometric gaseous n-heptane/oxygen/argon mixtures. Proceedings of the Combustion Institute, 2005, 30, 1925-1931.	2.4	7
68	Soot formation from a distillation cut of a Fischer–Tropsch diesel fuel: A shock tube study. Combustion and Flame, 2012, 159, 2192-2201.	2.8	7
69	Nitromethane pyrolysis in shock tubes and a micro flow reactor with a controlled temperature profile. Proceedings of the Combustion Institute, 2021, 38, 1007-1015.	2.4	7
70	Combustion of silane-nitrous oxide-argon mixtures: Analysis of laminar flame propagation and condensed products. Proceedings of the Combustion Institute, 2021, 38, 2235-2245.	2.4	7
71	The effects of addition of carbon dioxide and water vapor on the dynamic behavior of spherically expanding hydrogen/air premixed flames. Journal of Thermal Science and Technology, 2021, 16, JTST0026-JTST0026.	0.6	7
72	Influences of propylene/propyne addition on toluene pyrolysis in a single-pulse shock tube. Combustion and Flame, 2022, 236, 111799.	2.8	7

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73	The Onset of Detonation Behind Shock Waves of Moderate Intensity in Gas Phase. Combustion Science and Technology, 2014, 186, 607-620.	1.2	6
74	Laminar flame speeds and ignition delay times for isopropyl nitrate and propane blends. Combustion and Flame, 2022, 242, 112187.	2.8	6
75	Using RON Synergistic Effects to Formulate Fuels for Better Fuel Economy and Lower CO2 Emissions. , 0, , .		5
76	Autoignition of n-Decane/n-Butylbenzene/n-Propylcyclohexane Mixtures and the Effects of the Exhaust Gas Recirculation. Combustion Science and Technology, 2014, 186, 1536-1551.	1.2	4
77	Evaluation of different models for turbulent combustion of hydrogen-air mixtures. Large Eddy Simulation of a LOVA sequence with hydrogen deflagration in ITER Vacuum Vessel. Fusion Engineering and Design, 2020, 161, 111901.	1.0	4
78	Insights into pyrolysis kinetics of xylene isomers behind reflected shock waves. Combustion and Flame, 2022, 244, 112247.	2.8	4
79	Thermodynamic data of known volatile organic compounds (VOCs) in Rosmarinus officinalis : Implications for forest fire modeling. Computational and Theoretical Chemistry, 2015, 1073, 27-33.	1.1	3
80	Effect of the initial temperature and composition of a hot transient jet on the ignition of H2-air-diluent mixtures. Proceedings of the Combustion Institute, 1994, 25, 1539-1545.	0.3	2
81	Numerical assessment of accurate measurements of laminar flame speed. AIP Conference Proceedings, 2016, , .	0.3	2
82	Reprint of: Pyrolysis of ethanol studied in a new high-repetition-rate shock tube coupled to synchrotron-based double imaging photoelectron/photoion coincidence spectroscopy. Combustion and Flame, 2021, 224, 150-165.	2.8	2
83	Mathematical Modelling of Turbulent Combustion of Two-Phase Mixtures of Gas and Solid Particles with a Eulerian–Eulerian Approach: The Case of Hydrogen Combustion in the Presence of Graphite Particles. Mathematics, 2021, 9, 2017.	1.1	2
84	Unsupervised analysis of experiments of laminar flame propagation in a spherical enclosure. AIP Conference Proceedings, 2016, , .	0.3	1
85	Infrared Absorption Measurements of the Velocity of a Premixed Hydrogen/Air Flame Propagating in an Obstacle-Laden Tube. Combustion Science and Technology, 2019, 191, 696-710.	1.2	1
86	Soot formation from heavy hydrocarbons representatives of diesel fuel. , 2001, , .		0
87	Effect of a Heated Electrode On Lean Propane-Air Flame Development. , 2001, , .		0
88	Instabilities of the Void Region in a Dense Cloud of Grown Dust Particles. AIP Conference Proceedings, 2005, , .	0.3	0
89	In Situ Gas Monitoring by Fiber-Coupled Raman Spectrometry for Hâ,,-Risk Management in Nuclear Containment During a Severe Nuclear Accident. IEEE Transactions on Nuclear Science, 2020, 67, 617-624.	1.2	0
90	Capabilities and limitations of Large Eddy Simulation with perfectly stirred reactor assumption for engineering applications of unsteady, hydrogen combustion sequences. Engineering Applications of Computational Fluid Mechanics, 2021, 15, 1452-1472.	1.5	0

#	Article	IF	CITATIONS
91	Joe V. Michael Memorial Issue. International Journal of Chemical Kinetics, 2021, 53, 687-687.	1.0	Ο
92	Comportement d'une bulle de gaz piégée dans un liquide soumise à une onde de compression. Houille Blanche, 1997, 83, 81-83.	0.3	0
93	Kinetic Shock Tubes: Recent Developments for the Study of Homogeneous and Heterogeneous Chemical Processes. , 2019, , 65-80.		0