Andrea Comandini

List of Publications by Year
in descending order

33 papers	782 citations	471061 17 h-index	525886 27 g-index
33 all docs	33 docs citations	33 times ranked	685 citing authors

#	Article	IF	Citations
1	Combustion of CO/H2 mixtures at elevated pressures. Proceedings of the Combustion Institute, 2007, 31, 429-437.	2.4	72
2	Chemistry of Polycyclic Aromatic Hydrocarbons Formation from Phenyl Radical Pyrolysis and Reaction of Phenyl and Acetylene. Journal of Physical Chemistry A, 2012, 116, 2409-2434.	1.1	70
3	Laminar flame speeds of pentanol isomers: An experimental and modeling study. Combustion and Flame, 2016, 166, 1-18.	2.8	51
4	Experimental study on turbulent expanding flames of lean hydrogen/air mixtures. Proceedings of the Combustion Institute, 2017, 36, 2823-2832.	2.4	51
5	Laminar flame speeds of n -decane, n -butylbenzene, and n -propylcyclohexane mixtures. Proceedings of the Combustion Institute, 2015, 35, 671-678.	2.4	49
6	Theoretical Study of the Formation of Naphthalene from the Radical/Ï€-Bond Addition between Single-Ring Aromatic Hydrocarbons. Journal of Physical Chemistry A, 2011, 115, 5547-5559.	1.1	48
7	Experimental and modeling study on the pyrolysis and oxidation of iso-octane. Proceedings of the Combustion Institute, 2013, 34, 353-360.	2.4	48
8	High pressure study of m-xylene oxidation. Combustion and Flame, 2011, 158, 687-704.	2.8	38
9	Combustion properties of H2/N2/O2/steam mixtures. Proceedings of the Combustion Institute, 2019, 37, 1537-1546.	2.4	27
10	Laminar flame speed and shock-tube multi-species laser absorption measurements of Dimethyl Carbonate oxidation and pyrolysis near 1â€¯atm. Proceedings of the Combustion Institute, 2021, 38, 977-985.	2.4	24
11	Thermal decomposition of 1-pentyl radicals at high pressures and temperatures. Chemical Physics Letters, 2012, 552, 20-26.	1.2	23
12	Online and offline experimental techniques for polycyclic aromatic hydrocarbons recovery and measurement. Review of Scientific Instruments, 2012, 83, 034101.	0.6	23
13	Polycyclic Aromatic Hydrocarbon Growth by Diradical Cycloaddition/Fragmentation. Journal of Physical Chemistry A, 2017, 121, 5921-5931.	1.1	23
14	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
15	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
16	Comparative Study on Cyclohexane and Decalin Oxidation. Energy & Fuels, 2014, 28, 714-724.	2.5	22
17	Combustion properties of n-heptane/hydrogen mixtures. International Journal of Hydrogen Energy, 2019, 44, 2039-2052.	3.8	22
18	An experimental and kinetic modeling study of benzene pyrolysis with C2â€“C3 unsaturated hydrocarbons. Combustion and Flame, 2022, 237, 111858.	2.8	17

#	Article	IF	Citations
19	A comparative kinetic study of C8â€“C10 linear alkylbenzenes pyrolysis in a single-pulse shock tube. Combustion and Flame, 2020, 221, 136-149.	2.8	15
20	Radical/Ï€-Bond Addition between o-Benzyne and Cyclic C₅ Hydrocarbons. Journal of Physical Chemistry A, 2012, 116, 1183-1190.	1.1	14
21	Experimental and modeling study of styrene oxidation in spherical reactor and shock tube. Combustion and Flame, 2016, 173, 425-440.	2.8	13
22	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
23	Fast-flame limit for hydrogen/methane-air mixtures. Proceedings of the Combustion Institute, 2019, 37, 3661-3668.	2.4	12
24	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
25	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
26	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
27	Initiation reactions in the high temperature decomposition of styrene. Physical Chemistry Chemical Physics, 2021, 23, 18432-18448.	1.3	7
28	Influences of propylene/propyne addition on toluene pyrolysis in a single-pulse shock tube. Combustion and Flame, 2022, 236, 111799.	2.8	7
29	Using RON Synergistic Effects to Formulate Fuels for Better Fuel Economy and Lower CO2 Emissions. , 0, , .		5
30	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
31	Insights into pyrolysis kinetics of xylene isomers behind reflected shock waves. Combustion and Flame, 2022, 244, 112247.	2.8	4
32	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
33	Unsupervised analysis of experiments of laminar flame propagation in a spherical enclosure. AIP Conference Proceedings, 2016, , .	0.3	1