# Andrea Comandini

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | Influences of propylene/propyne addition on toluene pyrolysis in a single-pulse shock tube. Combustion and Flame, 2022, 236, 111799. | 2.8 | 7 |
| 2 | An experimental and kinetic modeling study of benzene pyrolysis with C2â^'C3 unsaturated hydrocarbons. Combustion and Flame, 2022, 237, 111858. | 2.8 | 17 |
| 3 | Insights into pyrolysis kinetics of xylene isomers behind reflected shock waves. Combustion and Flame, 2022, 244, 112247. | 2.8 | 4 |
| 4 | 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 |
| 5 | 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 |
| 6 | 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 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 10 | 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 |
| 11 | Initiation reactions in the high temperature decomposition of styrene. Physical Chemistry Chemical Physics, 2021, 23, 18432-18448. | 1.3 | 7 |
| 12 | 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 |
| 13 | 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 |
| 14 | Combustion properties of H2/N2/O2/steam mixtures. Proceedings of the Combustion Institute, 2019, 37, 1537-1546. | 2.4 | 27 |
| 15 | Fast-flame limit for hydrogen/methane-air mixtures. Proceedings of the Combustion Institute, 2019, 37, 3661-3668. | 2.4 | 12 |
| 16 | Combustion properties of n-heptane/hydrogen mixtures. International Journal of Hydrogen Energy, 2019, 44, 2039-2052. | 3.8 | 22 |
| 17 | Polycyclic Aromatic Hydrocarbon Growth by Diradical Cycloaddition/Fragmentation. Journal of Physical Chemistry A, 2017, 121, 5921-5931. | 1.1 | 23 |
| 18 | Experimental study on turbulent expanding flames of lean hydrogen/air mixtures. Proceedings of the Combustion Institute, 2017, 36, 2823-2832. | 2.4 | 51 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Experimental and modeling study of styrene oxidation in spherical reactor and shock tube. Combustion and Flame, 2016, 173, 425-440. | 2.8 | 13 |
| 20 | Unsupervised analysis of experiments of laminar flame propagation in a spherical enclosure. AIP Conference Proceedings, 2016, , . | 0.3 | 1 |
| 21 | Laminar flame speeds of pentanol isomers: An experimental and modeling study. Combustion and Flame, 2016, 166, 1-18. | 2.8 | 51 |
| 22 | Laminar flame speeds of n -decane, n -butylbenzene, and n -propylcyclohexane mixtures. Proceedings of the Combustion Institute, 2015, 35, 671-678. | 2.4 | 49 |
| 23 | 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 |
| 24 | Comparative Study on Cyclohexane and Decalin Oxidation. Energy & Fuels, 2014, 28, 714-724. | 2.5 | 22 |
| 25 | Experimental and modeling study on the pyrolysis and oxidation of iso-octane. Proceedings of the Combustion Institute, 2013, 34, 353-360. | 2.4 | 48 |
| 26 | 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 |
| 27 | Thermal decomposition of 1-pentyl radicals at high pressures and temperatures. Chemical Physics Letters, 2012, 552, 20-26. | 1.2 | 23 |
| 28 | Radical/Ï€-Bond Addition between o-Benzyne and Cyclic C<sub>5</sub> Hydrocarbons. Journal of Physical Chemistry A, 2012, 116, 1183-1190. | 1.1 | 14 |
| 29 | Online and offline experimental techniques for polycyclic aromatic hydrocarbons recovery and measurement. Review of Scientific Instruments, 2012, 83, 034101. | 0.6 | 23 |
| 30 | 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 |
| 31 | High pressure study of m-xylene oxidation. Combustion and Flame, 2011, 158, 687-704. | 2.8 | 38 |
| 32 | Combustion of CO/H2 mixtures at elevated pressures. Proceedings of the Combustion Institute, 2007, 31, 429-437. | 2.4 | 72 |
| 33 | Using RON Synergistic Effects to Formulate Fuels for Better Fuel Economy and Lower CO2 Emissions. , 0, , . | | 5 |