

Sandra Hartl

List of Publications by Year in descending order

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16
papers

446
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758635

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940134

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16
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381
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Development of an Ethanol Combustion Mechanism Based on a Hierarchical Optimization Approach. International Journal of Chemical Kinetics, 2016, 48, 423-441. | 1.0 | 77 |
| 2 | LES flamelet-progress variable modeling and measurements of a turbulent partially-premixed dimethyl ether jet flame. Combustion and Flame, 2015, 162, 3016-3029. | 2.8 | 54 |
| 3 | Laminar burning velocity measurements using the Heat Flux method and numerical predictions of iso-octane/ethanol blends for different preheat temperatures. Fuel, 2015, 140, 10-16. | 3.4 | 47 |
| 4 | Local flame structure analysis in turbulent CH ₄ /air flames with multi-regime characteristics. Combustion and Flame, 2019, 210, 426-438. | 2.8 | 43 |
| 5 | Regime identification from Raman/Rayleigh line measurements in partially premixed flames. Combustion and Flame, 2018, 189, 126-141. | 2.8 | 41 |
| 6 | A Constrained Control Approach for the Automated Choice of an Optimal Progress Variable for Chemistry Tabulation. Flow, Turbulence and Combustion, 2015, 94, 593-617. | 1.4 | 31 |
| 7 | Determination of laminar burning velocities for lean low calorific H ₂ /N ₂ and H ₂ /CO/N ₂ gas mixtures. International Journal of Hydrogen Energy, 2014, 39, 19810-19817. | 3.8 | 28 |
| 8 | Combustion regime identification from machine learning trained by Raman/Rayleigh line measurements. Combustion and Flame, 2020, 219, 268-274. | 2.8 | 26 |
| 9 | Assessing multi-regime combustion in a novel burner configuration with large eddy simulations using tabulated chemistry. Proceedings of the Combustion Institute, 2021, 38, 2551-2558. | 2.4 | 21 |
| 10 | Assessing the relative importance of flame regimes in Raman/Rayleigh line measurements of turbulent lifted flames. Proceedings of the Combustion Institute, 2019, 37, 2297-2305. | 2.4 | 19 |
| 11 | Flamelet/progress variable modeling of partial oxidation systems: From laboratory flames to pilot-scale reactors. Chemical Engineering Science, 2015, 134, 694-707. | 1.9 | 18 |
| 12 | Flame structure analysis of turbulent premixed/stratified flames with H ₂ addition considering differential diffusion and stretch effects. Proceedings of the Combustion Institute, 2021, 38, 2993-3001. | 2.4 | 13 |
| 13 | Assessing an experimental approach for chemical explosive mode and heat release rate using DNS data. Combustion and Flame, 2019, 209, 214-224. | 2.8 | 11 |
| 14 | Numerical and experimental investigation of the laminar burning velocity of biofuels at atmospheric and high-pressure conditions. Fuel, 2019, 247, 250-256. | 3.4 | 11 |
| 15 | Characterization of multi-regime reaction zones in a piloted inhomogeneous jet flame with local extinction. Proceedings of the Combustion Institute, 2021, 38, 2571-2579. | 2.4 | 5 |
| 16 | Flame Structure Analysis and Flamelet/Progress Variable Modelling of DME/Air Flames with Different Degrees of Premixing. Flow, Turbulence and Combustion, 2019, 102, 757-773. | 1.4 | 1 |