Olivier Colin

List of Publications by Year
in descending order

33 papers	1,341 citations	623188 14 h-index	552369 26 g-index
33 all docs	33 docs citations	33 times ranked	672 citing authors

#	Article	IF	Citations
1	Development of High-Order Taylorâ€“Galerkin Schemes for LES. Journal of Computational Physics, 2000, 162, 338-371.	1.9	400
2	Detailed chemistry-based auto-ignition model including low temperature phenomena applied to 3-D engine calculations. Proceedings of the Combustion Institute, 2005, 30, 2649-2656.	2.4	153
3	Large-eddy simulation of a fuel-lean premixed turbulent swirl-burner. Combustion and Flame, 2008, 155, 247-266.	2.8	144
4	Modelling of combustion and nitrogen oxide formation in hydrogen-fuelled internal combustion engines within a 3D CFD code. International Journal of Hydrogen Energy, 2008, 33, 5083-5097.	3.8	103
5	Using the tabulated diffusion flamelet model ADF-PCM to simulate a lifted methaneâ€“air jet flame. Combustion and Flame, 2009, 156, 1318-1331.	2.8	69
6	Modeling ignition and chemical structure of partially premixed turbulent flames using tabulated chemistry. Combustion and Flame, 2008, 152, 80-99.	2.8	59
7	On the use of a tabulation approach to model auto-ignition during flame propagation in SI engines. Applied Energy, 2011, 88, 4968-4979.	5.1	59
8	Sectional soot model coupled to tabulated chemistry for Diesel RANS simulations. Combustion and Flame, 2015, 162, 3081-3099.	2.8	44
9	Hybrid presumed pdf and flame surface density approaches for Large-Eddy Simulation of premixed turbulent combustion. Combustion and Flame, 2011, 158, 1201-1214.	2.8	28
10	NO Relaxation Approach (NORA) to predict thermal NO in combustion chambers. Combustion and Flame, 2011, 158, 1480-1490.	2.8	26
11	On the formulation of species reaction rates in the context of multi-species CFD codes using complex chemistry tabulation techniques. Combustion and Flame, 2010, 157, 701-714.	2.8	23
12	Comparison of Differing Formulations of the PCM Model by their Application to the Simulation of an Auto-igniting H 2/air Jet. Flow, Turbulence and Combustion, 2009, 83, 33-60.	1.4	22
13	A variable volume approach of tabulated detailed chemistry and its applications to multidimensional engine simulations. Proceedings of the Combustion Institute, 2011, 33, 3065-3072.	2.4	22
14	Combustion and soot modelling of a high-pressure and high-temperature Dodecane spray. International Journal of Engine Research, 2018, 19, 434-448.	1.4	19
15	A tabulated diffusion flame model applied to diesel engine simulations. International Journal of Engine Research, 2014, 15, 346-369.	1.4	18
16	Large-eddy simulation analysis of knock in a direct injection spark ignition engine. International Journal of Engine Research, 2019, 20, 765-776.	1.4	17
17	Auto-ignition model based on tabulated detailed kinetics and presumed temperature PDF â€“ Application to internal combustion engine controlled by thermal stratifications. International Journal of Heat and Mass Transfer, 2011, 54, 4885-4894.	2.5	15
18	Advanced Methodology to Investigate Knock for Downsized Gasoline Direct Injection Engine Using 3D RANS Simulations. , 0, , .		15

#	Article	IF	Citations
19	Large Eddy Simulations of a Small-Scale Flameless Combustor by Means of Diluted Homogeneous Reactors. Flow, Turbulence and Combustion, 2014, 93, 305-347.	1.4	12
20	Modelling and speciation of nitrogen oxides in engines. Proceedings of the Combustion Institute, 2013, 34, 667-675.	2.4	11
21	Hybrid presumed pdf and flame surface density approaches for Large-Eddy Simulation of premixed turbulent combustion. Part 2: Early flame development after sparking. Combustion and Flame, 2011, 158, 1215-1226.	2.8	10
22	A Tabulated, Flamelet Based No Model for Large Eddy Simulations of Non Premixed Turbulent Jets with Enthalpy Loss. Flow, Turbulence and Combustion, 2015, 94, 691-729.	1.4	10
23	Direct Numerical Simulations of high Karlovitz number premixed flames for the analysis and modeling of the displacement speed.. Combustion and Flame, 2022, 236, 111770.	2.8	10
24	A PIV-Guided Large-Eddy Simulation of In-Cylinder Flows. Oil and Gas Science and Technology, 2017, 72, 28.	1.4	9
25	Experimental Methodology for the Understanding of Soot-Fuel Relationship in Diesel Combustion: Fuel Characterization and Surrogate Validation. , 0, , .		8
26	DNS and LES of spark ignition with an automotive coil. Proceedings of the Combustion Institute, 2019, 37, 4875-4883.	2.4	8
27	An Innovative Approach Combining Adaptive Mesh Refinement, the ECFM3Z Turbulent Combustion Model, and the TKI Tabulated Auto-Ignition Model for Diesel Engine CFD Simulations. , 2016, , .		7
28	Evaluation of Different Tabulation Techniques Dedicated to the Prediction of the Combustion and Pollutants Emissions on a Diesel Engine with 3D CFD. , 2013, , .		6
29	A Two-Dimensional Tabulated Flamelet Combustion Model for Furnace Applications. Flow, Turbulence and Combustion, 2016, 97, 631-662.	1.4	6
30	A simplified CMC approach based on tabulated reaction rates applied to a lifted methaneâ€“air jet flame. Proceedings of the Combustion Institute, 2015, 35, 1393-1399.	2.4	5
31	A Sectional Soot Model for RANS Simulation of Diesel Engines. , 0, , .		2
32	Modeling of Pollutant Emissions Using Combined Tabulated Detailed Kinetics and Reduced Kinetics. , 0, , .		1
33	Development of a Comprehensive 0D Phenomenological Combustion Model Based on Detailed LES Results Analysis for Industrial Aeronautical Combustors. , 2018, , .		0