

Roberto Torelli

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

353
citations

1162367

8
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1372195

10
g-index

35
all docs

35
docs citations

35
times ranked

222
citing authors

#	ARTICLE	IF	CITATIONS
1	CFD modeling of pre-spark heat release in a boosted direct-injection spark-ignition engine. International Journal of Engine Research, 2023, 24, 3-15.	1.4	3
2	Computational fluid dynamics modeling and analysis of silica nanoparticle synthesis in a flame spray pyrolysis reactor. Combustion and Flame, 2022, 236, 111789.	2.8	11
3	Piston Bowl Geometry Effects on Gasoline Compression Ignition in a Heavy-Duty Diesel Engine. Journal of Energy Resources Technology, Transactions of the ASME, 2021, 143, .	1.4	9
4	Numerical study on spray collapse process of ECN spray G injector under flash boiling conditions. Fuel, 2021, 290, 119961.	3.4	32
5	Numerical Characterization of a Multi-Copter using Moving Boundaries and Cut-Cell Grids. , 2021, , .		0
6	Data-Driven Modeling of Large-Eddy Simulations for Fuel Injector Design. , 2021, , .		1
7	Machine Learning-Enabled Prediction of Transient Injection Map In Automotive Injectors With Uncertainty Quantification. , 2021, , .		1
8	Impact of high-speed diesel drop trains: Pursuing cleaner diesel engines. Physical Review Fluids, 2021, 6, .	1.0	1
9	Toward predictive and computationally affordable Lagrangianâ€Eulerianâ€E modeling of sprayâ€Ewall interaction. International Journal of Engine Research, 2020, 21, 263-280.	1.4	15
10	Computational characterization of the secondary droplets formed during the impingement of a train of ethanol drops. International Journal of Engine Research, 2020, 21, 248-262.	1.4	8
11	Towards understanding the development and characteristics of under-expanded flash boiling jets. International Journal of Multiphase Flow, 2020, 129, 103315.	1.6	13
12	CFD modeling of Unmanned Aerial Systems with Cut-cell Grids and Adaptive Mesh Refinement. , 2020, , .		2
13	DATA-DRIVEN MODEL REDUCTION OF MULTIPHASE FLOW IN A SINGLE-HOLE AUTOMOTIVE INJECTOR. Atomization and Sprays, 2020, 30, 401-429.	0.3	9
14	Dynamic UAS Simulation Framework for Energy and Mission Performance Optimization. , 2020, , .		6
15	Piston Bowl Geometry Effects on Gasoline Compression Ignition in a Heavy-Duty Diesel Engine. , 2020, , .		2
16	Cavitation-Suppressing Orifice Design Applied to a Heavy-Duty Diesel Engine Injector Operating With Gasoline. , 2020, , .		2
17	Investigation and Simulation of Gasoline in a Diesel Fuel Injector for Gasoline Compression Ignition Applications. Proceedings, 2019, , 423-442.	0.2	3
18	Performance Characterization of Alternative Ignition Systems Using Optical Tools in Natural Gas Engines. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
19	Influence of fuel properties on internal nozzle flow development in a multi-hole diesel injector. Fuel, 2017, 204, 171-184.	3.4	56
20	Modeling the Fuel Spray of a High Reactivity Gasoline Under Heavy-Duty Diesel Engine Conditions. , 2017, , .		12
21	A SPHERICAL VOLUME INTERACTION DDM APPROACH FOR DIESEL SPRAY MODELING. Atomization and Sprays, 2015, 25, 335-374.	0.3	9
22	Automatic Mech Generation for Full-Cycle CFD Modeling of IC Engines: Application to the TCC Test Case. , 2014, , .		11
23	Comparison of In-Nozzle Flow Characteristics of Naphtha and N-Dodecane Fuels. , 0, , .		12
24	An Experimental and Numerical Study of Diesel Spray Impingement on a Flat Plate. SAE International Journal of Fuels and Lubricants, 0, 10, 407-422.	0.2	38
25	Evaluation of Diesel Spray-Wall Interaction and Morphology around Impingement Location. , 0, , .		18
26	Evaluation of Shot-to-Shot In-Nozzle Flow Variations in a Heavy-Duty Diesel Injector Using Real Nozzle Geometry. SAE International Journal of Fuels and Lubricants, 0, 11, 379-295.	0.2	31
27	Using a DNS Framework to Test a Splashed Mass Sub-Model for Lagrangian Spray Simulations. , 0, , .		6
28	Three-Dimensional CFD Investigation of Pre-Spark Heat Release in a Boosted SI Engine. , 0, , .		3
29	Accelerating the Generation of Static Coupling Injection Maps Using a Data-Driven Emulator. , 0, , .		8
30	Effect of Fuel Temperature on the Performance of a Heavy-Duty Diesel Injector Operating with Gasoline. , 0, , .		5
31	Exploration of Cavitation-Suppressing Orifice Designs for a Heavy-Duty Diesel Injector Operating with Straight-Run Gasoline. , 0, , .		6
32	Internal Nozzle Flow Simulations of the ECN Spray C Injector under Realistic Operating Conditions. SAE International Journal of Advances and Current Practices in Mobility, 0, 2, 2229-2240.	2.0	17
33	An Analytical Energy-budget Model for Diesel Droplet Impingement on an Inclined Solid Wall. , 0, , .		2
34	Video: Impact of high-speed diesel drop trains - pursuing cleaner diesel engines. , 0, , .		1