

Malik Hassanaly

List of Publications by Year in descending order

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216
citing authors

#	ARTICLE	IF	CITATIONS
1	Using Machine Learning to Construct Velocity Fields from OH-PLIF Images. Combustion Science and Technology, 2022, 194, 93-116.	2.3	23
2	Adversarial sampling of unknown and high-dimensional conditional distributions. Journal of Computational Physics, 2022, 450, 110853.	3.8	7
3	An approximate inertial manifold (AIM) based closure for turbulent flows. AIP Advances, 2022, 12, .	1.3	5
4	Data-driven Classification and Modeling of Combustion Regimes in Detonation Waves. Flow, Turbulence and Combustion, 2021, 106, 1065-1089.	2.6	23
5	Data-driven analysis of relight variability of jet fuels induced by turbulence. Combustion and Flame, 2021, 225, 453-467.	5.2	12
6	Probabilistic modeling of forced ignition of alternative jet fuels. Proceedings of the Combustion Institute, 2021, 38, 2589-2596.	3.9	14
7	Surface chemistry models for GaAs epitaxial growth and hydride cracking using reacting flow simulations. Journal of Applied Physics, 2021, 130, 115702.	2.5	1
8	Classification and computation of extreme events in turbulent combustion. Progress in Energy and Combustion Science, 2021, 87, 100955.	31.2	8
9	Data-based analysis of multimodal partial cavity shedding dynamics. Experiments in Fluids, 2020, 61, 1.	2.4	16
10	A priori analysis of reduced description of dynamical systems using approximate inertial manifolds. Journal of Computational Physics, 2020, 409, 109344.	3.8	7
11	Reduced Description of Dynamical Systems by Approximate Inertial Manifolds. , 2019, , .		2
12	A comprehensive modeling procedure for estimating statistical properties of forced ignition. Combustion and Flame, 2019, 206, 158-176.	5.2	25
13	Experimental data-based reduced-order model for analysis and prediction of flame transition in gas turbine combustors. Combustion Theory and Modelling, 2019, 23, 994-1020.	1.9	17
14	Numerical convergence of the Lyapunov spectrum computed using low Mach number solvers. Journal of Computational Physics, 2019, 386, 467-485.	3.8	6
15	Ensemble-LES analysis of perturbation response of turbulent partially-premixed flames. Proceedings of the Combustion Institute, 2019, 37, 2249-2257.	3.9	24
16	Numerical simulation of forced ignition of Jet-fuel/air using large eddy simulation (LES) and a tabulation-based ignition. , 2019, , .		0
17	A self-similarity principle for the computation of rare event probability. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 495701.	2.1	3
18	Computational Tools for Data-Poor Problems in Turbulent Combustion. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
19	Emerging trends in numerical simulations of combustion systems. Proceedings of the Combustion Institute, 2019, 37, 2073-2089.	3.9	55
20	Lyapunov spectrum of forced homogeneous isotropic turbulent flows. Physical Review Fluids, 2019, 4, .	2.5	13
21	Large eddy simulation of pressure and dilution-jet effects on soot formation in a model aircraft swirl combustor. Combustion and Flame, 2018, 192, 452-472.	5.2	33
22	A minimally-dissipative low-Mach number solver for complex reacting flows in OpenFOAM. Computers and Fluids, 2018, 162, 11-25.	2.5	38
23	Simulation of Gas Turbine Ignition Using Large Eddy Simulation Approach. , 2018, , .		9
24	Turbulent Mixing and Combustion of Supercritical Jets. , 2017, , .		2
25	Perturbation Dynamics in Turbulent Flames. , 2017, , .		1
26	Large-Eddy Simulation of Soot Formation in a Model Gas Turbine Combustor. Journal of Engineering for Gas Turbines and Power, 2017, 139, .	1.1	35
27	Large Eddy Simulation of Soot Formation in a Model Gas Turbine Combustor. , 2016, , .		2
28	Influence of Fuel Stratification on Turbulent Flame Propagation. , 2015, , .		1
29	LES of Premixed Flame Flashback in a Turbulent Channel. , 2014, , .		6