Malik Hassanaly

List of Publications by Year
in descending order

29	389	840776 11	794594 19
papers	citations	h-index	g-index

29	29	29	216
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Emerging trends in numerical simulations of combustion systems. Proceedings of the Combustion Institute, 2019, 37, 2073-2089.	3.9	55
2	A minimally-dissipative low-Mach number solver for complex reacting flows in OpenFOAM. Computers and Fluids, 2018, 162, 11-25.	2.5	38
3	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
4	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
5	A comprehensive modeling procedure for estimating statistical properties of forced ignition. Combustion and Flame, 2019, 206, 158-176.	5.2	25
6	Ensemble-LES analysis of perturbation response of turbulent partially-premixed flames. Proceedings of the Combustion Institute, 2019, 37, 2249-2257.	3.9	24
7	Using Machine Learning to Construct Velocity Fields from OH-PLIF Images. Combustion Science and Technology, 2022, 194, 93-116.	2.3	23
8	Data-driven Classification and Modeling of Combustion Regimes in Detonation Waves. Flow, Turbulence and Combustion, 2021, 106, 1065-1089.	2.6	23
9	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
10	Data-based analysis of multimodal partial cavity shedding dynamics. Experiments in Fluids, 2020, 61, 1.	2.4	16
11	Probabilistic modeling of forced ignition of alternative jet fuels. Proceedings of the Combustion Institute, 2021, 38, 2589-2596.	3.9	14
12	Lyapunov spectrum of forced homogeneous isotropic turbulent flows. Physical Review Fluids, 2019, 4, .	2.5	13
13	Data-driven analysis of relight variability of jet fuels induced by turbulence. Combustion and Flame, 2021, 225, 453-467.	5.2	12
14	Simulation of Gas Turbine Ignition Using Large Eddy Simulation Approach. , 2018, , .		9
15	Classification and computation of extreme events in turbulent combustion. Progress in Energy and Combustion Science, 2021, 87, 100955.	31.2	8
16	A priori analysis of reduced description of dynamical systems using approximate inertial manifolds. Journal of Computational Physics, 2020, 409, 109344.	3.8	7
17	Adversarial sampling of unknown and high-dimensional conditional distributions. Journal of Computational Physics, 2022, 450, 110853.	3.8	7
18	LES of Premixed Flame Flashback in a Turbulent Channel. , 2014, , .		6

#	Article	IF	Citations
19	Numerical convergence of the Lyapunov spectrum computed using low Mach number solvers. Journal of Computational Physics, 2019, 386, 467-485.	3.8	6
20	An approximate inertial manifold (AIM) based closure for turbulent flows. AIP Advances, 2022, 12, .	1.3	5
21	A self-similarity principle for the computation of rare event probability. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 495701.	2.1	3
22	Large Eddy Simulation of Soot Formation in a Model Gas Turbine Combustor. , 2016, , .		2
23	Turbulent Mixing and Combustion of Supercritical Jets. , 2017, , .		2
24	Reduced Description of Dynamical Systems by Approximate Inertial Manifolds. , 2019, , .		2
25	Influence of Fuel Stratification on Turbulent Flame Propagation. , 2015, , .		1
26	Perturbation Dynamics in Turbulent Flames. , 2017, , .		1
27	Computational Tools for Data-Poor Problems in Turbulent Combustion. , 2019, , .		1
28	Surface chemistry models for GaAs epitaxial growth and hydride cracking using reacting flow simulations. Journal of Applied Physics, 2021, 130, 115702.	2.5	1
29	Numerical simulation of forced ignition of Jet-fuel/air using large eddy simulation (LES) and a tabulation-based ignition. , 2019, , .		0