

AurÃ©lie Bellemans

List of Publications by Year in descending order

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Version: 2024-02-01

15
papers

179
citations

1040056

9
h-index

1372567

10
g-index

15
all docs

15
docs citations

15
times ranked

151
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of reduced-order models based on PCA & Kriging for the development of digital twins of reacting flow applications. <i>Computers and Chemical Engineering</i> , 2019, 121, 422-441.	3.8	56
2	Plasma-assisted ignition of methane/air and ethylene/air mixtures: Efficiency at low and high pressures. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 6551-6558.	3.9	21
3	Feature extraction and reduced-order modelling of nitrogen plasma models using principal component analysis. <i>Computers and Chemical Engineering</i> , 2018, 115, 504-514.	3.8	18
4	A multi-fidelity framework for the estimation of the turbulent Schmidt number in the simulation of atmospheric dispersion. <i>Building and Environment</i> , 2020, 185, 107066.	6.9	17
5	P-DRGEP: a novel methodology for the reduction of kinetics mechanisms for plasma-assisted combustion applications. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 6631-6639.	3.9	14
6	Reduced-order kinetic plasma models using principal component analysis: Model formulation and manifold sensitivity. <i>Physical Review Fluids</i> , 2017, 2, .	2.5	13
7	Transport properties of carbon-phenolic gas mixtures. <i>Physics of Fluids</i> , 2019, 31, .	4.0	12
8	Development of skeletal kinetics mechanisms for plasma-assisted combustion via principal component analysis. <i>Plasma Sources Science and Technology</i> , 2020, 29, 025020.	3.1	12
9	Reduction of a collisional-radiative mechanism for argon plasma based on principal component analysis. <i>Physics of Plasmas</i> , 2015, 22, 062108.	1.9	11
10	Principal component analysis acceleration of rovibrational coarse-grain models for internal energy excitation and dissociation. <i>Journal of Chemical Physics</i> , 2018, 148, 164107.	3.0	4
11	MG-local-PCA Method for the Reduction of a Collisional-Radiative Argon Plasma Mechanism. , 2015, , .		1
12	Development of Reduced Chemistry Models for High Enthalpy and Plasma Flows. , 2014, , .		0
13	Skeletal Chemical Kinetics Mechanisms for Plasma-Assisted Combustion. , 2020, , .		0
14	PCA-Score Method for the Reduction of Collisional-Radiative Chemistry. , 2017, , .		0
15	A Machine-Learning Framework for Plasma-Assisted Combustion Using Principal Component Analysis and Gaussian Process Regression. <i>Space Technology Proceedings</i> , 2021, , 379-392.	0.1	0