

# AurÃ©lie Bellemans

## List of Publications by Year in descending order

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Version: 2024-02-01

15  
papers

179  
citations

1040056

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h-index

1372567

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g-index

15  
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15  
docs citations

15  
times ranked

151  
citing authors

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