

# Alessandro Parente

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5870182/publications.pdf>

Version: 2024-02-01

136  
papers

4,051  
citations

117453

34  
h-index

143772

57  
g-index

139  
all docs

139  
docs citations

139  
times ranked

1828  
citing authors

#	ARTICLE	IF	CITATIONS
1	Extension of the Eddy Dissipation Concept for turbulence/chemistry interactions to MILD combustion. Fuel, 2016, 163, 98-111.	3.4	180
2	Numerical and experimental investigation of a mild combustion burner. Combustion and Flame, 2007, 151, 649-664.	2.8	173
3	Effect of the combustion model and kinetic mechanism on the MILD combustion in an industrial burner fed with hydrogen enriched fuels. International Journal of Hydrogen Energy, 2008, 33, 7553-7564.	3.8	164
4	Comprehensive kinetic study of combustion technologies for low environmental impact: MILD and OXY-fuel combustion of methane. Combustion and Flame, 2020, 212, 142-155.	2.8	139
5	Improved $k-\epsilon$ model and wall function formulation for the RANS simulation of ABL flows. Journal of Wind Engineering and Industrial Aerodynamics, 2011, 99, 267-278.	1.7	134
6	Numerical and experimental analysis of NO emissions from a lab-scale burner fed with hydrogen-enriched fuels and operating in MILD combustion. International Journal of Hydrogen Energy, 2009, 34, 8339-8351.	3.8	129
7	Combustion modeling using principal component analysis. Proceedings of the Combustion Institute, 2009, 32, 1563-1570.	2.4	121
8	Examination of a soot model in premixed laminar flames at fuel-rich conditions. Proceedings of the Combustion Institute, 2019, 37, 1013-1021.	2.4	109
9	RANS simulation of ABL flow over complex terrains applying an Enhanced $k-\epsilon$ model and wall function formulation: Implementation and comparison for fluent and OpenFOAM. Journal of Wind Engineering and Industrial Aerodynamics, 2012, 104-106, 360-368.	1.7	105
10	Mechanisms of NO formation in MILD combustion of CH <sub>4</sub> /H <sub>2</sub> fuel blends. International Journal of Hydrogen Energy, 2014, 39, 19187-19203.	3.8	95
11	Principal component analysis of turbulent combustion data: Data pre-processing and manifold sensitivity. Combustion and Flame, 2013, 160, 340-350.	2.8	89
12	Identification of low-dimensional manifolds in turbulent flames. Proceedings of the Combustion Institute, 2009, 32, 1579-1586.	2.4	87
13	Investigation of the MILD combustion regime via Principal Component Analysis. Proceedings of the Combustion Institute, 2011, 33, 3333-3341.	2.4	81
14	A Novel Methodology for Chemical Time Scale Evaluation with Detailed Chemical Reaction Kinetics. Energy & Fuels, 2013, 27, 2255-2265.	2.5	77
15	A Comprehensive Modelling Approach for the Neutral Atmospheric Boundary Layer: Consistent Inflow Conditions, Wall Function and Turbulence Model. Boundary-Layer Meteorology, 2011, 140, 411-428.	1.2	71
16	Comprehensive numerical study of the Adelaide Jet in Hot-Coflow burner by means of RANS and detailed chemistry. Energy, 2017, 139, 555-570.	4.5	65
17	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.	2.0	56
18	Application of Improved CFD Modeling for Prediction and Mitigation of Traffic-Related Air Pollution Hotspots in a Realistic Urban Street. Atmospheric Environment, 2021, 246, 118127.	1.9	55

#	ARTICLE	IF	CITATIONS
19	Improving indoor air quality through an air purifier able to reduce aerosol particulate matter (PM) and volatile organic compounds (VOCs): Experimental results. <i>Environmental Research</i> , 2021, 197, 111131.	3.7	55
20	A simplified approach for predicting NO formation in MILD combustion of CH <sub>4</sub> -H <sub>2</sub> mixtures. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 3343-3350.	2.4	54
21	Principal component analysis coupled with nonlinear regression for chemistry reduction. <i>Combustion and Flame</i> , 2018, 187, 30-41.	2.8	53
22	Finite-rate chemistry modelling of non-conventional combustion regimes using a Partially-Stirred Reactor closure: Combustion model formulation and implementation details. <i>Applied Energy</i> , 2018, 225, 637-655.	5.1	52
23	How can power-to-ammonia be robust? Optimization of an ammonia synthesis plant powered by a wind turbine considering operational uncertainties. <i>Fuel</i> , 2020, 266, 117049.	3.4	51
24	An evolutionary, data-driven approach for mechanism optimization: theory and application to ammonia combustion. <i>Combustion and Flame</i> , 2021, 229, 111366.	2.8	50
25	Waste heat recovery optimization in micro gas turbine applications using advanced humidified gas turbine cycle concepts. <i>Applied Energy</i> , 2017, 207, 218-229.	5.1	48
26	Generalisation of the eddy-dissipation concept for jet flames with low turbulence and low Damköhler number. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 4497-4505.	2.4	46
27	Adaptive chemistry via pre-partitioning of composition space and mechanism reduction. <i>Combustion and Flame</i> , 2020, 211, 68-82.	2.8	46
28	Reactive structures and NO <sub>x</sub> emissions of methane/hydrogen mixtures in flameless combustion. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 34018-34045.	3.8	45
29	MG-local-PCA method for reduced order combustion modeling. <i>Proceedings of the Combustion Institute</i> , 2013, 34, 1117-1123.	2.4	43
30	Reduced-order PCA models for chemical reacting flows. <i>Combustion and Flame</i> , 2014, 161, 2785-2800.	2.8	42
31	The role of outdoor and indoor air quality in the spread of SARS-CoV-2: Overview and recommendations by the research group on COVID-19 and particulate matter (RESCOP commission). <i>Environmental Research</i> , 2022, 211, 113038.	3.7	42
32	On the role of mixing models in the simulation of MILD combustion using finite-rate chemistry combustion models. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 4531-4538.	2.4	40
33	Advanced regression methods for combustion modelling using principal components. <i>Combustion and Flame</i> , 2015, 162, 2592-2601.	2.8	37
34	Large Eddy Simulation of MILD combustion using finite rate chemistry: Effect of combustion sub-grid closure. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 4519-4529.	2.4	36
35	Combustion modeling using Principal Component Analysis: A posteriori validation on Sandia flames D, E and F. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 2635-2643.	2.4	35
36	Kernel density weighted principal component analysis of combustion processes. <i>Combustion and Flame</i> , 2012, 159, 2844-2855.	2.8	34

#	ARTICLE	IF	CITATIONS
37	Experimental and numerical investigation of a micro-CHP flameless unit. <i>Applied Energy</i> , 2012, 89, 203-214.	5.1	34
38	Reduced NO formation models for CFD simulations of MILD combustion. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 4884-4897.	3.8	34
39	Experimental characterisation of a micro Humid Air Turbine: assessment of the thermodynamic performance. <i>Applied Thermal Engineering</i> , 2017, 118, 796-806.	3.0	34
40	Digital twin of a combustion furnace operating in flameless conditions: reduced-order model development from CFD simulations. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 5373-5381.	2.4	34
41	Key Modeling Aspects in the Simulation of a Quasi-industrial 20 kW Moderate or Intense Low-oxygen Dilution Combustion Chamber. <i>Energy &amp; Fuels</i> , 2018, 32, 10228-10241.	2.5	33
42	Toward Higher Micro Gas Turbine Efficiency and Flexibility – Humidified Micro Gas Turbines: A Review. <i>Journal of Engineering for Gas Turbines and Power</i> , 2018, 140, .	0.5	32
43	Kinetic modeling of soot formation in premixed burner-stabilized stagnation ethylene flames at heavily sooting condition. <i>Fuel</i> , 2018, 234, 199-206.	3.4	32
44	Assessment of different chemistry reduction methods based on principal component analysis: Comparison of the MG-PCA and score-PCA approaches. <i>Combustion and Flame</i> , 2016, 168, 83-97.	2.8	30
45	Advanced turbulence models and boundary conditions for flows around different configurations of ground-mounted buildings. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2017, 167, 160-182.	1.7	30
46	A multiscale combustion model formulation for NO predictions in hydrogen enriched jet flames. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 23436-23457.	3.8	30
47	Application of machine learning for filtered density function closure in MILD combustion. <i>Combustion and Flame</i> , 2021, 225, 160-179.	2.8	30
48	T100 mGT converted into mHAT for domestic applications: Economic analysis based on hourly demand. <i>Applied Energy</i> , 2016, 164, 1019-1027.	5.1	29
49	Does humidification improve the micro Gas Turbine cycle? Thermodynamic assessment based on Sankey and Grassmann diagrams. <i>Applied Energy</i> , 2017, 204, 1163-1171.	5.1	29
50	Dimension reduction of non-equilibrium plasma kinetic models using principal component analysis. <i>Plasma Sources Science and Technology</i> , 2015, 24, 025004.	1.3	28
51	Prediction of flammable range for pure fuels and mixtures using detailed kinetics. <i>Combustion and Flame</i> , 2019, 207, 120-133.	2.8	27
52	Generalised Eddy Dissipation Concept for MILD combustion regime at low local Reynolds and Damköhler numbers. Part 1: Model framework development. <i>Fuel</i> , 2020, 278, 117743.	3.4	25
53	How sensitive is a dynamic ammonia synthesis process? Global sensitivity analysis of a dynamic Haber-Bosch process (for flexible seasonal energy storage). <i>Energy</i> , 2021, 232, 121016.	4.5	25
54	Influence of modelling and scenario uncertainties on the numerical simulation of a semi-industrial flameless furnace. <i>Applied Thermal Engineering</i> , 2015, 76, 324-334.	3.0	23

#	ARTICLE	IF	CITATIONS
55	Carbon capture on micro gas turbine cycles: Assessment of the performance on dry and wet operations. <i>Applied Energy</i> , 2017, 207, 243-253.	5.1	23
56	CFD dispersion study based on a variable Schmidt formulation for flows around different configurations of ground-mounted buildings. <i>Building and Environment</i> , 2019, 154, 336-347.	3.0	23
57	Humidified micro gas turbines for domestic users: An economic and primary energy savings analysis. <i>Energy</i> , 2016, 117, 429-438.	4.5	22
58	Validation of a reduced NO formation mechanism on a flameless furnace fed with H <sub>2</sub> -enriched low calorific value fuels. <i>Applied Thermal Engineering</i> , 2018, 144, 877-889.	3.0	21
59	Impact of urban environment on Savonius wind turbine performance: A numerical perspective. <i>Renewable Energy</i> , 2020, 156, 407-422.	4.3	21
60	Assessment of On-the-Fly Chemistry Reduction and Tabulation Approaches for the Simulation of Moderate or Intense Low-Oxygen Dilution Combustion. <i>Energy &amp; Fuels</i> , 2018, 32, 10121-10131.	2.5	20
61	Strategies for Hydrogen-Enriched Methane Flameless Combustion in a Quasi-Industrial Furnace. <i>Frontiers in Energy Research</i> , 2021, 8, .	1.2	20
62	Experimental Characterization of a T100 Micro Gas Turbine Converted to Full Humid Air Operation. <i>Energy Procedia</i> , 2014, 61, 2083-2088.	1.8	19
63	An a priori assessment of the Partially Stirred Reactor (PaSR) model for MILD combustion. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 5403-5414.	2.4	19
64	Advanced Humidified Gas Turbine Cycle Concepts Applied to Micro Gas Turbine Applications for Optimal Waste Heat Recovery. <i>Energy Procedia</i> , 2017, 105, 1712-1718.	1.8	18
65	Feature extraction and reduced-order modelling of nitrogen plasma models using principal component analysis. <i>Computers and Chemical Engineering</i> , 2018, 115, 504-514.	2.0	18
66	Characterization of jet-in-hot-coflow flames using tangential stretching rate. <i>Combustion and Flame</i> , 2019, 208, 281-298.	2.8	18
67	Buoyancy effect in sooting laminar premixed ethylene flame. <i>Combustion and Flame</i> , 2019, 205, 135-146.	2.8	18
68	Soot Modeling of Ethylene Counterflow Diffusion Flames. <i>Combustion Science and Technology</i> , 2019, 191, 1473-1483.	1.2	18
69	On the Influence of Kinetic Uncertainties on the Accuracy of Numerical Modeling of an Industrial Flameless Furnace Fired With NH <sub>3</sub> /H <sub>2</sub> Blends: A Numerical and Experimental Study. <i>Frontiers in Energy Research</i> , 2020, 8, .	1.2	18
70	The partially stirred reactor model for combustion closure in large eddy simulations: Physical principles, sub-models for the cell reacting fraction, and open challenges. <i>Physics of Fluids</i> , 2022, 34, .	1.6	18
71	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.	3.0	17
72	PCAFold: Python software to generate, analyze and improve PCA-derived low-dimensional manifolds. <i>SoftwareX</i> , 2020, 12, 100630.	1.2	17

#	ARTICLE	IF	CITATIONS
73	Realistic boundary conditions for the simulation of atmospheric boundary layer flows using an improved $k\epsilon$ model. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2015, 144, 183-190.	1.7	16
74	Experimental and Numerical Investigation of a MILD Combustion Chamber for Micro Gas Turbine Applications. <i>Energies</i> , 2018, 11, 3363.	1.6	15
75	Optimization of Chemical Kinetics for Methane and Biomass Pyrolysis Products in Moderate or Intense Low-Oxygen Dilution Combustion. <i>Energy &amp; Fuels</i> , 2018, 32, 10194-10201.	2.5	15
76	Application of Bound-to-Bound Data Collaboration approach for development and uncertainty quantification of a reduced char combustion model. <i>Fuel</i> , 2018, 232, 769-779.	3.4	14
77	Combination of polynomial chaos and Kriging for reduced-order model of reacting flow applications. <i>Results in Engineering</i> , 2021, 10, 100223.	2.2	14
78	OptiSMOKE++: A toolbox for optimization of chemical kinetic mechanisms. <i>Computer Physics Communications</i> , 2021, 264, 107940.	3.0	14
79	Impact of the Partitioning Method on Multidimensional Adaptive-Chemistry Simulations. <i>Energies</i> , 2020, 13, 2567.	1.6	13
80	Reduced-order kinetic plasma models using principal component analysis: Model formulation and manifold sensitivity. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	13
81	Thermochemical oscillation of methane MILD combustion diluted with $N_2/CO_2/H_2O$ . <i>Combustion Science and Technology</i> , 2019, 191, 68-80.	1.2	12
82	NOx Formation in MILD Combustion: Potential and Limitations of Existing Approaches in CFD. <i>Frontiers in Mechanical Engineering</i> , 2020, 6, .	0.8	12
83	Study of MILD combustion using LES and advanced analysis tools. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 5423-5432.	2.4	12
84	Principal component analysis based combustion model in the context of a lifted methane/air flame: Sensitivity to the manifold parameters and subgrid closure. <i>Combustion and Flame</i> , 2022, 244, 112134.	2.8	12
85	Manifold-informed state vector subset for reduced-order modeling. <i>Proceedings of the Combustion Institute</i> , 2023, 39, 5145-5154.	2.4	12
86	Reduction of a collisional-radiative mechanism for argon plasma based on principal component analysis. <i>Physics of Plasmas</i> , 2015, 22, 062108.	0.7	11
87	Transient Simulations of a T100 Micro Gas Turbine Converted Into a Micro Humid Air Turbine. , 2015, , .		11
88	Exhaust Gas Recirculation on Humidified Flexible Micro Gas Turbines for Carbon Capture Applications. , 2016, , .		11
89	Is There a Future for Small-Scale Cogeneration in Europe? Economic and Policy Analysis of the Internal Combustion Engine, Micro Gas Turbine and Micro Humid Air Turbine Cycles. <i>Energies</i> , 2019, 12, 413.	1.6	11
90	Evaluation of Modeling Approaches for MILD Combustion Systems With Internal Recirculation. <i>Frontiers in Mechanical Engineering</i> , 2020, 6, .	0.8	11

#	ARTICLE	IF	CITATIONS
91	Experimental and Numerical Study of the Micromix Combustion Principle Applied for Hydrogen and Hydrogen-Rich Syngas as Fuel with Increased Energy Density for Industrial Gas Turbine Applications. Energy Procedia, 2014, 61, 1736-1739.	1.8	10
92	PCA and Kriging for the efficient exploration of consistency regions in Uncertainty Quantification. Proceedings of the Combustion Institute, 2019, 37, 4461-4469.	2.4	10
93	Generalised Eddy Dissipation Concept for MILD combustion regime at low local Reynolds and Damköhler numbers. Part 2: Validation of the model. Fuel, 2020, 278, 117773.	3.4	10
94	Surrogate-Assisted Modeling and Robust Optimization of a Micro Gas Turbine Plant With Carbon Capture. Journal of Engineering for Gas Turbines and Power, 2020, 142, .	0.5	10
95	Gray Zone Partitioning Functions and Parameterization of Turbulence Fluxes in the Convective Atmospheric Boundary Layer. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD033581.	1.2	9
96	Numerical and experimental investigation of turbulent n-heptane jet-in-hot-coflow flames. Fuel, 2021, 283, 118748.	3.4	9
97	Predicting octane numbers relying on principal component analysis and artificial neural network. Computers and Chemical Engineering, 2022, 161, 107784.	2.0	9
98	Collaborative simulations and experiments for a novel yield model of coal devolatilization in oxy-coal combustion conditions. Fuel Processing Technology, 2017, 166, 86-95.	3.7	8
99	Operational Optimization of a Typical micro Gas Turbine. Energy Procedia, 2017, 142, 1653-1660.	1.8	8
100	Optimal design and operating strategy of a carbon-clean micro gas turbine for combined heat and power applications. International Journal of Greenhouse Gas Control, 2019, 88, 469-481.	2.3	8
101	The effect of benzene on the structure of low-pressure premixed H <sub>2</sub> /CH <sub>4</sub> /CO-air flames and related NO formation at different equivalence ratios. Combustion and Flame, 2021, 232, 111510.	2.8	8
102	Investigation of temperature correction methods for fine wire thermocouple losses in low-pressure flat premixed laminar flames. Combustion and Flame, 2022, 244, 112248.	2.8	8
103	Computational Singular Perturbation Method and Tangential Stretching Rate Analysis of Large Scale Simulations of Reactive Flows: Feature Tracking, Time Scale Characterization, and Cause/Effect Identification. Part 1, Basic Concepts. , 2020, , 43-64.		6
104	A Review of the Numerical Investigations of Jet-In-Hot-Coflow Burner With Reactor-Based Models. Frontiers in Mechanical Engineering, 2020, 6, .	0.8	6
105	CFD-aided benchmark assessment of coal devolatilization one-step models in oxy-coal combustion conditions. Fuel Processing Technology, 2016, 154, 27-36.	3.7	5
106	Experimental and numerical investigation of a MILD-based Stirling engine fed with landfill gas. Energy Procedia, 2017, 120, 230-237.	1.8	5
107	Collaboration of simulations and experiments for development and uncertainty quantification of a reduced char combustion model. Energy Procedia, 2017, 120, 500-507.	1.8	5
108	Interpretation and characterization of MILD combustion data using unsupervised clustering informed by physics-based, domain expertise. Combustion and Flame, 2022, 240, 111954.	2.8	5

#	ARTICLE	IF	CITATIONS
109	Combined effect of experimental and kinetic uncertainties on NO predictions in low-pressure premixed laminar H <sub>2</sub> /CH <sub>4</sub> /CO-air and H <sub>2</sub> /CH <sub>4</sub> /CO/C <sub>6</sub> H <sub>6</sub> -air flames. <i>Fuel</i> , 2022, 320, 123800.	3.4	5
110	Economic Analysis of a Micro Humid Air Turbine for Domestic Applications. <i>Energy Procedia</i> , 2014, 61, 1476-1482.	1.8	4
111	Towards Higher Micro Gas Turbine Efficiency and Flexibility: Humidified MGTS " A Review. , 2017, , .		4
112	Principal component analysis acceleration of rovibrational coarse-grain models for internal energy excitation and dissociation. <i>Journal of Chemical Physics</i> , 2018, 148, 164107.	1.2	4
113	Heat Release Rate Markers for the Adelaide Jet in Hot Coflow Flame. <i>Frontiers in Mechanical Engineering</i> , 2020, 6, .	0.8	4
114	CFD boundary conditions, turbulence models and dispersion study for flows around obstacles. Lecture Series - Van Kareman Institute for Fluid Dynamics, 2017, , .	0.0	4
115	Development of a Recuperated Flameless Combustor for an Inverted Brayton Cycle Microturbine Used in Residential Micro-CHP. , 2017, , .		3
116	Carbon Capture on a Micro Gas Turbine: Assessment of the Performance. <i>Energy Procedia</i> , 2017, 105, 4046-4052.	1.8	3
117	Prediction of the PIONA and oxygenate composition of unconventional fuels with the Pseudo-Component Property Estimation (PCPE) method. Application to an Automotive Shredder Residues-derived gasoline. , 2018, , .		3
118	Experimental Characterisation of a Humidified T100 Micro Gas Turbine. , 2016, , .		2
119	Selection of appropriate constraints for dimension reduction in MILD combustion simulations via RCCE. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 4287-4295.	2.4	2
120	Carbon Clean Combined Heat and Power Production from micro Gas Turbines: Thermodynamic Analysis of Different Scenarios. <i>Energy Procedia</i> , 2017, 142, 1622-1628.	1.8	2
121	Finite-rate chemistry modelling of non-conventional combustion regimes. <i>Energy Procedia</i> , 2017, 142, 1570-1576.	1.8	2
122	Feature extraction and artificial neural networks for the <i>on-the-fly</i> classification of high-dimensional thermochemical spaces in adaptive-chemistry simulations. <i>Data-Centric Engineering</i> , 2021, 2, .	1.2	2
123	Non-Premixed Filtered Tabulated Chemistry: Filtered Flame Modeling of Diffusion Flames. <i>Fuels</i> , 2021, 2, 87-107.	1.3	2
124	Computational Singular Perturbation Method and Tangential Stretching Rate Analysis of Large Scale Simulations of Reactive Flows: Feature Tracking, Time Scale Characterization, and Cause/Effect Identification. Part 2, Analyses of Ignition Systems, Laminar and Turbulent Flames. , 2020, , 65-88.		2
125	Boosting the dissociation of by employing shock-free supersonic expansion. <i>Plasma Processes and Polymers</i> , 2022, 19, e2100110.	1.6	2
126	Principal Component Analysis on a LES of a Squared Ribbed Channel. <i>Advances in Intelligent Systems and Computing</i> , 2014, , 259-268.	0.5	1



#	ARTICLE	IF	CITATIONS
127	MG-local-PCA Method for the Reduction of a Collisional-Radiative Argon Plasma Mechanism. , 2015, , .		1
128	Analysis of a 20 kW flameless furnace fired with natural gas. Energy Procedia, 2017, 120, 104-111.	1.8	1
129	Humidified Micro Gas Turbine for Carbon Capture Applications: Preliminary Experimental Results With CO2 Injection. , 2018, , .		1
130	Turbulence model formulation and dispersion modelling for the CFD simulation of flows around obstacles and on complex terrains. Lecture Series - Van Kareman Institute for Fluid Dynamics, 2019, , .	0.0	1
131	Unsupervised Data Analysis of Direct Numerical Simulation of a Turbulent Flame via Local Principal Component Analysis and Procrustes Analysis. Advances in Intelligent Systems and Computing, 2021, , 460-469.	0.5	1
132	Development of Reduced Chemistry Models for High Enthalpy and Plasma Flows. , 2014, , .		0
133	Reduction of a collisional-radiative argon model comparing a modified binning method with principal component analysis. , 2016, , .		0
134	Edcsmoke: A new combustion solver for stiff chemistry based on OpenFOAM®. AIP Conference Proceedings, 2017, , .	0.3	0
135	PCA-Score Method for the Reduction of Collisional-Radiative Chemistry. , 2017, , .		0
136	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