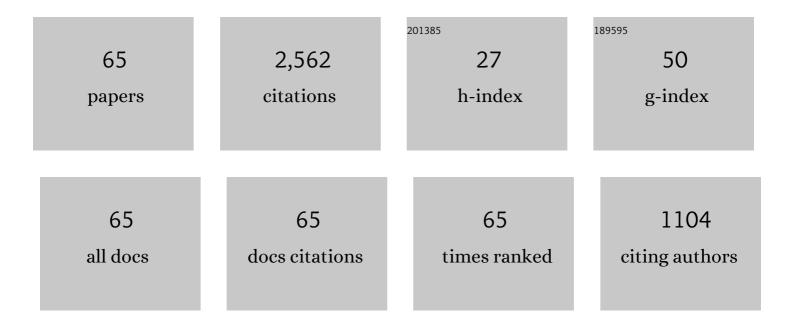
Olivier Gicquel

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Physical study of the non-equilibrium development of a turbulent thermal boundary layer. Journal of Fluid Mechanics, 2022, 934, .	1.4	0
2	Assessment and numerical validation of a normal mode stability analysis for conjugate heat transfer. International Journal of Heat and Mass Transfer, 2022, 191, 122794.	2.5	1
3	A Quasi-Monte Carlo method to compute scattering effects in radiative heat transfer: Application to a sooted jet flame. International Journal of Heat and Mass Transfer, 2021, 168, 120915.	2.5	6
4	Study of turbulence-radiation interactions in a heated jet using direct numerical simulation coupled to a non-gray Monte-Carlo solver. International Journal of Heat and Mass Transfer, 2020, 162, 120297.	2.5	3
5	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
6	Assessment of External Heat Transfer Modeling of a Laboratory-Scale Combustor: Effects of Pressure-Housing Environment and Semi-Transparent Viewing Windows. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	0.5	1
7	Analysis of radiative transfer in a turbulent sooting jet flame using a Monte Carlo method coupled to large eddy simulation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 235, 187-203.	1.1	15
8	Assessment of randomized Quasi-Monte Carlo method efficiency in radiative heat transfer simulations. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 236, 106570.	1.1	27
9	Scaling of heated plane jets with moderate radiative heat transfer in coupled DNS. International Journal of Heat and Mass Transfer, 2019, 139, 456-474.	2.5	7
10	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
11	Multiphysics Simulation Combining Large-Eddy Simulation, Wall Heat Conduction and Radiative Energy Transfer to Predict Wall Temperature Induced by a Confined Premixed Swirling Flame. Flow, Turbulence and Combustion, 2018, 101, 77-102.	1.4	17
12	Practical indicators for assessing the magnitudes of wall radiative flux and of coupling effects between radiation and other heat transfer modes on the temperature law-of-the wall in turbulent gaseous boundary layers. International Journal of Heat and Mass Transfer, 2018, 120, 76-85.	2.5	1
13	Coupling an LES approach and a soot sectional model for the study of sooting turbulent non-premixed flames. Combustion and Flame, 2018, 190, 477-499.	2.8	65
14	Assessment of External Heat Transfer Modeling of a Laboratory-Scale Combustor Inside a Pressure-Housing Environment. , 2018, , .		1
15	Comparison of Monte Carlo Methods Efficiency to Solve Radiative Energy Transfer in High Fidelity Unsteady 3D Simulations. , 2017, , .		0
16	High-Fidelity Multiphysics Simulation of a Confined Premixed Swirling Flame Combining Large-Eddy Simulation, Wall Heat Conduction and Radiative Energy Transfer. , 2017, , .		1
17	A 3-D DNS and experimental study of the effect of the recirculating flow pattern inside a reactive kernel produced by nanosecond plasma discharges in a methane-air mixture. Proceedings of the Combustion Institute, 2017, 36, 4095-4103.	2.4	61
18	Self-adaptive coupling frequency for unsteady coupled conjugate heat transfer simulations. International Journal of Thermal Sciences, 2017, 118, 340-354.	2.6	21

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#	Article	IF	CITATIONS
19	Experimental and numerical investigation of the influence of thermal boundary conditions on premixed swirling flame stabilization. Combustion and Flame, 2016, 171, 42-58.	2.8	45
20	Assessment of different chemistry reduction methods based on principal component analysis: Comparison of the MG-PCA and score-PCA approaches. Combustion and Flame, 2016, 168, 83-97.	2.8	30
21	A study of three-dimensional LES of turbulent combustion with radiative heat transfer. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2016, 38, 33-48.	0.8	1
22	Modelling the impact of non-equilibrium discharges on reactive mixtures for simulations of plasma-assisted ignition in turbulent flows. Combustion and Flame, 2016, 166, 133-147.	2.8	60
23	Modeling interactions between chemistry and turbulence for simulations of partial oxidation processes. Fuel Processing Technology, 2015, 134, 231-242.	3.7	17
24	Tabulated chemistry approach for diluted combustion regimes with internal recirculation and heat losses. Combustion and Flame, 2014, 161, 2120-2136.	2.8	52
25	Reduced-order PCA models for chemical reacting flows. Combustion and Flame, 2014, 161, 2785-2800.	2.8	42
26	LES Modeling of the Impact of Heat Losses and Differential Diffusion on Turbulent Stratified Flame Propagation: Application to the TU Darmstadt Stratified Flame. Flow, Turbulence and Combustion, 2014, 93, 349-381.	1.4	27
27	Effects of radiation in turbulent channel flow: analysis of coupled direct numerical simulations. Journal of Fluid Mechanics, 2014, 753, 360-401.	1.4	19
28	Physical study of radiation effects on the boundary layer structure in a turbulent channel flow. International Journal of Heat and Mass Transfer, 2013, 61, 654-666.	2.5	28
29	Characteristic chemical time scales identification in reactive flows. Proceedings of the Combustion Institute, 2013, 34, 1357-1364.	2.4	13
30	A wall model for LES accounting for radiation effects. International Journal of Heat and Mass Transfer, 2013, 67, 712-723.	2.5	16
31	MG-local-PCA method for reduced order combustion modeling. Proceedings of the Combustion Institute, 2013, 34, 1117-1123.	2.4	43
32	Numerical investigation of a helicopter combustion chamber using LES and tabulated chemistry. Comptes Rendus - Mecanique, 2013, 341, 257-265.	2.1	2
33	Multicomponent real gas 3-D-NSCBC for direct numerical simulation of reactive compressible viscous flows. Journal of Computational Physics, 2013, 245, 259-280.	1.9	9
34	Large eddy simulation of a pulsed jet in cross-flow. Journal of Fluid Mechanics, 2012, 695, 1-34.	1.4	26
35	Three-dimensional boundary conditions for numerical simulations of reactive compressible flows with complex thermochemistry. Journal of Computational Physics, 2012, 231, 5571-5611.	1.9	18
36	A Filtered Tabulated Chemistry model for LES of stratified flames. Combustion and Flame, 2012, 159, 2704-2717.	2.8	43

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#	Article	IF	CITATIONS
37	Kernel density weighted principal component analysis of combustion processes. Combustion and Flame, 2012, 159, 2844-2855.	2.8	34
38	Optimized Emission-based Reciprocity Monte Carlo Method to speed up computation in complex systems. International Journal of Heat and Mass Transfer, 2012, 55, 8172-8177.	2.5	15
39	Modeling chemical flame structure and combustion dynamics in LES. Proceedings of the Combustion Institute, 2011, 33, 1331-1338.	2.4	28
40	A multi-spectral reordering technique for the full spectrum SLMB modeling of radiative heat transfer in nonuniform gaseous mixtures. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 394-411.	1.1	8
41	Coupling tabulated chemistry with compressible CFD solvers. Proceedings of the Combustion Institute, 2011, 33, 1481-1488.	2.4	41
42	A reactor network model for predicting NOx emissions in gas turbines. Fuel, 2010, 89, 2202-2210.	3.4	81
43	A filtered tabulated chemistry model for LES of premixed combustion. Combustion and Flame, 2010, 157, 465-475.	2.8	192
44	A Filtered Tabulated Chemistry Model for Large Eddy Simulation of Reactive Flows. , 2010, , .		0
45	Turbulent flame simulation taking advantage of tabulated chemistry self-similar properties. Proceedings of the Combustion Institute, 2009, 32, 1687-1694.	2.4	11
46	Coupling tabulated chemistry with Large Eddy Simulation of turbulent reactive flows. Comptes Rendus - Mecanique, 2009, 337, 329-339.	2.1	9
47	Monte Carlo method of radiative transfer applied to a turbulent flame modeling with LES. Comptes Rendus - Mecanique, 2009, 337, 539-549.	2.1	9
48	Coupled large eddy simulations of turbulent combustion and radiative heat transfer. Combustion and Flame, 2008, 152, 387-400.	2.8	47
49	Tabulation of complex chemistry based on self-similar behavior of laminar premixed flames. Combustion and Flame, 2006, 146, 649-664.	2.8	44
50	Premixed turbulent combustion modeling using tabulated detailed chemistry and PDF. Proceedings of the Combustion Institute, 2005, 30, 867-874.	2.4	105
51	Experimental and numerical determination of heat release in counterflow premixed laminar flames. Proceedings of the Combustion Institute, 2005, 30, 251-257.	2.4	80
52	Approximating the chemical structure of partially premixed and diffusion counterflow flames using FPI flamelet tabulation. Combustion and Flame, 2005, 140, 147-160.	2.8	213
53	Modeling nonadiabatic turbulent premixed reactive flows including tabulated chemistry. Combustion and Flame, 2005, 141, 271-280.	2.8	56
54	Influence of Differential Diffusion on Super-Equilibrium Temperature in Turbulent Non-Premixed Hydrogen/Air Flames. Flow, Turbulence and Combustion, 2005, 73, 307-321.	1.4	7

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#	Article	IF	CITATIONS
55	VALIDATION OF THE FPI CHEMISTRY REDUCTION METHOD FOR DILUTED NONADIABATIC PREMIXED FLAMES. Combustion Science and Technology, 2004, 176, 785-797.	1.2	16
56	Combustion of residual steel gases: laminar flame analysis and turbulent flamelet modelingâ~†. Fuel, 2003, 82, 983-991.	3.4	23
57	Modelling non-adiabatic partially premixed flames using flame-prolongation of ILDM. Combustion Theory and Modelling, 2003, 7, 449-470.	1.0	197
58	Development of a 3D Parallel Multigrid Solver for Fast and Accurate Laminar Steady Flame Computations. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2003, , 115-128.	0.2	1
59	Two- versus three-dimensional direct simulations of turbulent methane flame kernels using realistic chemistry. Proceedings of the Combustion Institute, 2002, 29, 2031-2039.	2.4	44
60	Three-Dimensional Direct Simulations of Turbulent Flames Using Realistic Chemistry Modeling. Fluid Mechanics and Its Applications, 2002, , 279-286.	0.1	1
61	Computations of NOx Emissions of Domestic Boilers. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2001, 81, 567-568.	0.9	0
62	Progress in Direct Simulations of 3D Turbulent Flames. ERCOFTAC Series, 2001, , 105-112.	0.1	0
63	Numerical and experimental study of no emission in laminar partially premixed flames. Proceedings of the Combustion Institute, 2000, 28, 2419-2425.	2.4	5
64	Liminar premixed hydrogen/air counterflow flame simulations using flame prolongation of ILDM with differential diffusion. Proceedings of the Combustion Institute, 2000, 28, 1901-1908.	2.4	478
65	Direct numerical simulation of turbulent premixed flames using intrinsic low-dimensional manifolds. Combustion Theory and Modelling, 1999, 3, 479-502.	1.0	33