

# Vincent Moureau

## List of Publications by Year in descending order

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73  
papers

2,216  
citations

304743

22  
h-index

223800

46  
g-index

74  
all docs

74  
docs citations

74  
times ranked

1313  
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of spatially averaged consumption speed from spherical expanding flame: A new experimental methodology. <i>Combustion and Flame</i> , 2022, 235, 111720.	5.2	2
2	A massively parallel accurate conservative level set algorithm for simulating turbulent atomization on adaptive unstructured grids. <i>Journal of Computational Physics</i> , 2022, 458, 111075.	3.8	10
3	Three-dimensional DEM-CFD simulation of a lab-scale fluidized bed to support the development of two-fluid model approach. <i>International Journal of Multiphase Flow</i> , 2022, 156, 104189.	3.4	13
4	Optimized chemistry for Large Eddy Simulations of wrinkled flames. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 3097-3106.	3.9	4
5	Combustion for aircraft propulsion: Progress in advanced laser-based diagnostics on high-pressure kerosene/air flames produced with low-NOx fuel injection systems. <i>Combustion and Flame</i> , 2021, 224, 273-294.	5.2	16
6	A level-set framework for the wind turbine wake analysis: from high-fidelity unsteady simulations to 1D momentum theory. <i>Journal of Physics: Conference Series</i> , 2021, 1934, 012011.	0.4	0
7	Numerical simulation of boiling on unstructured grids. <i>Journal of Computational Physics</i> , 2021, 432, 110161.	3.8	9
8	Experiments and Simulations of Free-Surface Flow behind a Finite Height Rigid Vertical Cylinder. <i>Fluids</i> , 2021, 6, 367.	1.7	4
9	A massively parallel CFD/DEM approach for reactive gas-solid flows in complex geometries using unstructured meshes. <i>Computers and Fluids</i> , 2020, 198, 104402.	2.5	16
10	Impact of Spray Droplet Distribution on the Performances of a Kerosene Lean/Premixed Injector. <i>Flow, Turbulence and Combustion</i> , 2020, 104, 421-450.	2.6	7
11	Actuator grid method for turbulence generation applied to yawed wind turbines. <i>Journal of Physics: Conference Series</i> , 2020, 1618, 062064.	0.4	0
12	Actuator line method applied to grid turbulence generation for large-Eddy simulations. <i>Journal of Turbulence</i> , 2020, 21, 407-433.	1.4	2
13	A framework to perform high-order deconvolution for finite-volume method on simplicial meshes. <i>International Journal for Numerical Methods in Fluids</i> , 2020, 92, 1551-1583.	1.6	6
14	Large Eddy Simulation of a Turbulent Spray Jet Flame Using Filtered Tabulated Chemistry. <i>Journal of Combustion</i> , 2020, 2020, 1-23.	1.0	8
15	Large-Eddy Simulation of the lean-premixed PRECCINSTA burner with wall heat loss. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 5233-5243.	3.9	50
16	High Performance CFD/DEM Approach in Complex Geometries on Unstructured Meshes. <i>ERCOFTAC Series</i> , 2019, , 193-199.	0.1	0
17	Time Stable Reduced Order Modeling by an Enhanced Reduced Order Basis of the Turbulent and Incompressible 3D Navier-Stokes Equations. <i>Mathematical and Computational Applications</i> , 2019, 24, 45.	1.3	13
18	DEM/CFD Simulations of a Pseudo-2D Fluidized Bed: Comparison with Experiments. <i>Fluids</i> , 2019, 4, 51.	1.7	6

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19	Filtered Wrinkled Flamelets model for Large-Eddy Simulation of turbulent premixed combustion. <i>Combustion and Flame</i> , 2019, 205, 93-108.	5.2	14
20	Large Eddy simulation of a spray jet flame using filtered tabulated chemistry. , 2019, , .		0
21	Modeling of Convective and Conductive Conjugate Heat Transfer in a Kerosene/Air Spray Flame Used for Aeronautical Fire Resistance Tests. <i>ERCOFTAC Series</i> , 2019, , 261-266.	0.1	0
22	Scalable Work-Stealing Load-Balancer for HPC Distributed Memory Systems. <i>Lecture Notes in Computer Science</i> , 2019, , 146-158.	1.3	0
23	Flow Around Thick Airfoils at Very High Reynolds Number. Stall and Dynamic Stall Applications. <i>ERCOFTAC Series</i> , 2019, , 359-365.	0.1	1
24	Large-Eddy Simulation of wind turbines wakes including geometrical effects. <i>Computers and Fluids</i> , 2018, 173, 133-139.	2.5	40
25	LES study of an n-heptane/air turbulent spray jet flame. , 2018, , .		2
26	Geometrical Reduced Order Modeling (ROM) by Proper Orthogonal Decomposition (POD) for the incompressible Navier Stokes equations. , 2018, , .		4
27	Wall-Modeled Large Eddy Simulation of Flow around Oscillating Wind Turbines Dedicated Airfoils. , 2018, , .		0
28	Adaptive multi-resolution Large-Eddy Simulation with control of modeling and numerical errors. , 2018, , .		0
29	Analysis of the Interactions of the Precessing Vortex Core with a Spray Flame in a Swirl Burner. <i>ERCOFTAC Series</i> , 2018, , 407-413.	0.1	0
30	Comparison of Various CFD Codes for LES Simulations of Turbomachinery: From Inviscid Vortex Convection to Multi-Stage Compressor. , 2018, , .		3
31	Integration of Helicopter Annular Combustion Chamber Rig in Propulsion Systems Course for Graduate Students. , 2018, , .		0
32	Modeling of Conjugate Heat Transfer in a Kerosene/Air Spray Flame used for Aeronautical Fire Resistance Tests. <i>Flow, Turbulence and Combustion</i> , 2018, 101, 579-602.	2.6	8
33	About the numerical robustness of biomedical benchmark cases: Interlaboratory FDA's idealized medical device. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2017, 33, e02789.	2.1	32
34	LES modeling of piloted jet flames with inhomogeneous inlets using tabulated chemistry methods. , 2017, , .		5
35	Large-Eddy Simulation of a hydrogen enriched methane/air meso-scale combustor. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 2397-2410.	7.1	13
36	Stable POD-Galerkin Reduced Order Models for unsteady turbulent incompressible flows. , 2017, , .		7

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37	Pre-exascale Architectures: OpenPOWER Performance and Usability Assessment for French Scientific Community. Lecture Notes in Computer Science, 2017, , 309-324.	1.3	1
38	A multi-grid framework for the extraction of large-scale vortices in Large-Eddy Simulation. Journal of Computational Physics, 2017, 349, 528-560.	3.8	3
39	Formalism for spatially averaged consumption speed considering spherically expanding flame configuration. Combustion and Flame, 2016, 173, 235-244.	5.2	11
40	Mesh adaptation for large-eddy simulations in complex geometries. International Journal for Numerical Methods in Fluids, 2016, 81, 719-740.	1.6	63
41	Design of implicit high-order filters on unstructured grids for the identification of large-scale features in large-eddy simulation and application to a swirl burner. Physics of Fluids, 2015, 27, .	4.0	21
42	LES of turbulent combustion: On the consistency between flame and flow filter scales. Proceedings of the Combustion Institute, 2015, 35, 1359-1366.	3.9	20
43	A Priori Analysis of Dynamic Models for Large Eddy Simulations of Turbulent Premixed Combustion. ERCOFTAC Series, 2015, , 497-502.	0.1	1
44	Analysis of dynamic models for large eddy simulations of turbulent premixed combustion. Combustion and Flame, 2015, 162, 4622-4642.	5.2	39
45	Numerical study of a flapping liquid sheet sheared by a high-speed stream. International Journal of Multiphase Flow, 2015, 77, 196-208.	3.4	21
46	YALES2BIO: A Computational Fluid Dynamics Software Dedicated to the Prediction of Blood Flows in Biomedical Devices. IFMBE Proceedings, 2015, , 7-10.	0.3	5
47	Design of High-Order Implicit Filters on Unstructured Grids for the Identification of Large-Scale Features in Large-Eddy Simulations. ERCOFTAC Series, 2015, , 81-87.	0.1	1
48	Large-Eddy Simulation of Flow and Heat Transfer Around a Low-Mach Number Turbine Blade. ERCOFTAC Series, 2015, , 361-366.	0.1	1
49	A filtered-laminar-flame PDF sub-grid-scale closure for LES of premixed turbulent flames: II. Application to a stratified bluff-body burner. Combustion and Flame, 2014, 161, 1775-1791.	5.2	48
50	Modelling nitrogen oxide emissions in turbulent flames with air dilution: Application to LES of a non-premixed jet-flame. Combustion and Flame, 2014, 161, 496-509.	5.2	20
51	Large-Eddy Simulation and Conjugate Heat Transfer Around a Low-Mach Turbine Blade. Journal of Turbomachinery, 2014, 136, .	1.7	44
52	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.	2.6	27
53	A filtered-laminar-flame PDF sub-grid scale closure for LES of premixed turbulent flames. Part I: Formalism and application to a bluff-body burner with differential diffusion. Combustion and Flame, 2014, 161, 1756-1774.	5.2	60
54	Optimization of the deflated Conjugate Gradient algorithm for the solving of elliptic equations on massively parallel machines. Journal of Computational Physics, 2013, 238, 32-47.	3.8	59

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55	Compressible and low Mach number LES of a swirl experimental burner. <i>Comptes Rendus - Mecanique</i> , 2013, 341, 277-287.	2.1	5
56	Large-Eddy Simulation and Conjugate Heat Transfer Around a Low-Mach Turbine Blade. , 2013, , .		2
57	A massively parallel solution strategy for efficient thermal radiation simulation. <i>Journal of Physics: Conference Series</i> , 2012, 369, 012017.	0.4	2
58	Large-Eddy Simulations of flow and heat transfer around a low-Mach number turbine blade. , 2012, , .		11
59	Modeling differential diffusion in Large Eddy Simulation of a bluff body stabilized premixed weakly-turbulent flame. , 2012, , .		0
60	Optimization of the Deflated Conjugate Gradients algorithm applied to the massively parallel LES of heat transfer in gas turbines. , 2012, , .		0
61	Composition-space premixed flamelet solution with differential diffusion for in situ flamelet-generated manifolds. <i>Combustion and Flame</i> , 2011, 158, 2009-2016.	5.2	39
62	From Large-Eddy Simulation to Direct Numerical Simulation of a lean premixed swirl flame: Filtered laminar flame-PDF modeling. <i>Combustion and Flame</i> , 2011, 158, 1340-1357.	5.2	205
63	Design of a massively parallel CFD code for complex geometries. <i>Comptes Rendus - Mecanique</i> , 2011, 339, 141-148.	2.1	168
64	Development and assessment of a coupled strategy for conjugate heat transfer with Large Eddy Simulation: Application to a cooled turbine blade. <i>International Journal of Heat and Fluid Flow</i> , 2009, 30, 1129-1141.	2.4	111
65	Evaluation of numerical strategies for large eddy simulation of particulate two-phase recirculating flows. <i>Journal of Computational Physics</i> , 2009, 228, 539-564.	3.8	76
66	A level set formulation for premixed combustion LES considering the turbulent flame structure. <i>Combustion and Flame</i> , 2009, 156, 801-812.	5.2	80
67	Massively parallel LES of azimuthal thermo-acoustic instabilities in annular gas turbines. <i>Comptes Rendus - Mecanique</i> , 2009, 337, 385-394.	2.1	65
68	Conjugate heat transfer with Large Eddy Simulation for gas turbine components. <i>Comptes Rendus - Mecanique</i> , 2009, 337, 550-561.	2.1	28
69	An accurate conservative level set/ghost fluid method for simulating turbulent atomization. <i>Journal of Computational Physics</i> , 2008, 227, 8395-8416.	3.8	327
70	A ghost-fluid method for large-eddy simulations of premixed combustion in complex geometries. <i>Journal of Computational Physics</i> , 2007, 221, 600-614.	3.8	42
71	An efficient semi-implicit compressible solver for large-eddy simulations. <i>Journal of Computational Physics</i> , 2007, 226, 1256-1270.	3.8	65
72	Numerical methods for unsteady compressible multi-component reacting flows on fixed and moving grids. <i>Journal of Computational Physics</i> , 2005, 202, 710-736.	3.8	218

#	ARTICLE	IF	CITATIONS
73	Towards Large Eddy Simulation in Internal-Combustion Engines: Simulation of a Compressed Tumble Flow. , 0, , .		32