

L Y M Gicquel

List of Publications by Year in descending order

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docs citations

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times ranked

1626
citing authors

#	ARTICLE	IF	CITATIONS
1	On the impact of H_2 enrichment on flame structure and combustion dynamics of a lean partially-premixed turbulent swirling flame. Combustion and Flame, 2022, 241, 112120.	5.2	17
2	Global spectral analysis of the Lax-Wendroff-central difference scheme applied to Convection-Diffusion equation. Computers and Fluids, 2022, 242, 105508.	2.5	5
3	Dynamics of spray and swirling flame under acoustic oscillations : A joint experimental and LES investigation. Proceedings of the Combustion Institute, 2021, 38, 6015-6024.	3.9	9
4	Stabilization mechanisms of CH_4 premixed swirled flame enriched with a non-premixed hydrogen injection. Proceedings of the Combustion Institute, 2021, 38, 6355-6363.	3.9	33
5	A mesh adaptation strategy for complex wall-modeled turbomachinery LES. Computers and Fluids, 2021, 214, 104766.	2.5	5
6	Static mesh adaptation for reliable large eddy simulation of turbulent reacting flows. Physics of Fluids, 2021, 33, .	4.0	11
7	Analysis of the Unsteady Flow Field Inside a Fan-Shaped Cooling Hole Predicted by Large Eddy Simulation. Journal of Turbomachinery, 2021, 143, .	1.7	6
8	Towards the Large-Eddy Simulation of a full engine: Integration of a 360 azimuthal degrees fan, compressor and combustion chamber. Part II: Comparison against stand-alone simulations. Journal of the Global Power and Propulsion Society, 2021, , 1-16.	0.8	5
9	On the impact of fuel injection angle in Euler-Lagrange large eddy simulations of swirling spray flames exhibiting thermoacoustic instabilities. Combustion and Flame, 2021, 227, 359-370.	5.2	16
10	Towards the Large-Eddy Simulation of a full engine: Integration of a 360 azimuthal degrees fan, compressor and combustion chamber. Part I: Methodology and initialisation. Journal of the Global Power and Propulsion Society, 2021, , 1-16.	0.8	6
11	Stochastic forcing for sub-grid scale models in wall-modeled large-eddy simulation. Physics of Fluids, 2021, 33, .	4.0	9
12	Impact of wall heat transfer in Large Eddy Simulation of flame dynamics in a swirled combustion chamber. Combustion and Flame, 2021, 234, 111728.	5.2	27
13	Large-eddy-simulation-based analysis of Reynolds-stress budgets for a round impinging jet. Physics of Fluids, 2021, 33, .	4.0	7
14	Unsteady Analysis of Heat Transfer Coefficient Distribution in a Static Ribbed Channel for An Established Flow. Journal of Turbomachinery, 2021, 143, .	1.7	4
15	Generation of Realistic Boundary Conditions at the Combustion Chamber/Turbine Interface Using Large-Eddy Simulation. Energies, 2021, 14, 8206.	3.1	3
16	Assessment of a Coolant Injection Model on Cooled High-Pressure Vanes with Large-Eddy Simulation. Flow, Turbulence and Combustion, 2020, 104, 643-672.	2.6	2
17	Wall-Modeled Large-Eddy Simulations of a Multistage High-Pressure Compressor. Flow, Turbulence and Combustion, 2020, 104, 725-751.	2.6	2
18	Stability and control of an annular rotor/stator cavity limit cycle. Physics of Fluids, 2020, 32, .	4.0	2

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19	Analysis of the effect of intermittency in a high-pressure turbine blade. <i>Physics of Fluids</i> , 2020, 32, .	4.0	12
20	Effects of liquid fuel/wall interaction on thermoacoustic instabilities in swirling spray flames. <i>Combustion and Flame</i> , 2020, 219, 86-101.	5.2	36
21	Combining analytical models and LES data to determine the transfer function from swirled premixed flames. <i>Combustion and Flame</i> , 2020, 217, 222-236.	5.2	20
22	Large-Eddy Simulation of the Flow Developing in Static and Rotating Ribbed Channels. <i>Journal of Turbomachinery</i> , 2020, 142, .	1.7	9
23	Large Eddy Simulation of Heat Transfer Within a Multi-Perforation Synthetic Jets Configuration. <i>Journal of Turbomachinery</i> , 2020, 142, .	1.7	4
24	Dynamic mode tracking and control with a relaxation method. <i>Physics of Fluids</i> , 2019, 31, .	4.0	8
25	Large eddy simulations and global stability analyses of an annular and cylindrical rotor/stator cavity limit cycles. <i>Physics of Fluids</i> , 2019, 31, .	4.0	10
26	A characteristic inlet boundary condition for compressible, turbulent, multispecies turbomachinery flows. <i>Computers and Fluids</i> , 2019, 178, 41-55.	2.5	28
27	Large Eddy Simulation of the Flow Developing in Static and Rotating Ribbed Channels. , 2019, , .		3
28	Inlet and Outlet Characteristics Boundary Conditions for Large Eddy Simulations of Turbomachinery. , 2019, , .		1
29	Large-Eddy Simulations of Heat Transfer Within a Multi-Perforation Synthetic Jets Configuration. , 2019, , .		1
30	Large Eddy Simulation of Combustor and Complete Single-Stage High-Pressure Turbine of the FACTOR Test Rig. , 2019, , .		1
31	Control Strategies of an Academic Rotor/Stator Cavity Through Sensitivity Analysis. , 2019, , .		0
32	Influence of chemical schemes, numerical method and dynamic turbulent combustion modeling on LES of premixed turbulent flames. <i>Combustion and Flame</i> , 2018, 191, 417-430.	5.2	45
33	Resampling strategies to improve surrogate model-based uncertainty quantification: Application to LES of LS89. <i>International Journal for Numerical Methods in Fluids</i> , 2018, 87, 607-627.	1.6	7
34	A Thickened-Hole Model for Large Eddy Simulations over Multiperforated Liners. <i>Flow, Turbulence and Combustion</i> , 2018, 101, 705-717.	2.6	9
35	Bluff-body Thermal Property and Initial State Effects on a Laminar Premixed Flame Anchoring Pattern. <i>Flow, Turbulence and Combustion</i> , 2018, 100, 561-591.	2.6	11
36	Numerical analysis of a high-order unstructured overset grid method for compressible LES of turbomachinery. <i>Journal of Computational Physics</i> , 2018, 363, 371-398.	3.8	13

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37	The three-dimensional flow field and heat transfer in a rib-roughened channel at large rotation numbers. International Journal of Heat and Mass Transfer, 2018, 123, 848-866.	4.8	13
38	Large-Eddy-simulation prediction of indirect combustion noise in the entropy wave generator experiment. International Journal of Spray and Combustion Dynamics, 2018, 10, 154-168.	1.0	8
39	Study of Combustion Noise Generation in a Realistic Turbine Stage Configuration. , 2018, , .		3
40	Large Eddy Simulations of a Highly Loaded Transonic Blade With Separated Flow. , 2018, , .		3
41	Local and Global Stability Analysis of an Academic Rotor/Stator Cavity. , 2018, , .		1
42	On the Use of Periodic Boundary Condition for Large Eddy Simulation of Trailing Edge Cutback Film Cooling With Internal Ribs. , 2018, , .		1
43	Large Eddy Simulations in a Transonic Centrifugal Compressor. , 2018, , .		1
44	Evaluation of Integral Turbulence Scale Through the Fan Stage of a Turbofan Using Hot Wire Anemometry and Large Eddy Simulation. , 2018, , .		4
45	Unsteady Macro-Structures from Large-Eddy Simulation of Industrial Turbopump Turbine Cavity. AIAA Journal, 2017, 55, 2198-2214.	2.6	2
46	On the importance of inlet boundary conditions for aerothermal predictions of turbine stages with large eddy simulation. Computers and Fluids, 2017, 154, 60-73.	2.5	20
47	Integrated Large Eddy Simulation of Combustor and Turbine Interactions: Effect of Turbine Stage Inlet Condition. , 2017, , .		5
48	Comparison of Heterogeneous and Homogeneous Coolant Injection Models for Large Eddy Simulation of Multiperforated Liners Present in a Combustion Simulator. , 2017, , .		3
49	Advanced Statistical Analysis Estimating the Heat Load Issued by Hot Streaks and Turbulence on a High-Pressure Vane in the Context of Adiabatic Large Eddy Simulations. , 2017, , .		0
50	Sensitivity of Large Eddy Simulations to Inflow Condition and Modeling if Applied to a Transonic High-Pressure Cascade Vane. , 2017, , .		2
51	Characterization of the Surface Curvature Effect Using LES for a Single Round Impinging Jet. , 2017, , .		2
52	Large Eddy Simulations of Static and Rotating Ribbed Channels in Adiabatic and Isothermal Conditions. , 2017, , .		5
53	Large scale motions of multiple limit-cycle high Reynolds number annular and toroidal rotor/stator cavities. Physics of Fluids, 2017, 29, .	4.0	7
54	Partitioned High Performance Code Coupling Applied to CFD. Lecture Notes in Computer Science, 2017, , 3-12.	1.3	1

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55	Investigation of the concave curvature effect for an impinging jet flow. <i>Physical Review Fluids</i> , 2017, 2, .	2.5	7
56	Analysis of a high-pressure multistage axial compressor at off-design conditions with coarse Large Eddy Simulations. , 2017, , .		4
57	LES of the LS89 cascade: influence of inflow turbulence on the flow predictions. , 2017, , .		10
58	Large Eddy Simulations of the Combustor Turbine Interface: Study of the Potential and Clocking Effects. , 2016, , .		15
59	LES of a Round Impinging Jet: Investigation of the Link Between Nusselt Secondary Peak and Near-Wall Vortical Structures. , 2016, , .		2
60	Experimental and Numerical Calculation of Turbulent Timescales at the Exit of an Engine Representative Combustor Simulator. <i>Journal of Engineering for Gas Turbines and Power</i> , 2016, 138, .	1.1	12
61	Effects of Subgrid Scale Modeling on the Deterministic and Stochastic Turbulent Energetic Distribution in Large-Eddy Simulations of a High-Pressure Turbine Stage. <i>Journal of Turbomachinery</i> , 2016, 138, .	1.7	15
62	Secondary peak in the Nusselt number distribution of impinging jet flows: A phenomenological analysis. <i>Physics of Fluids</i> , 2016, 28, .	4.0	36
63	Application of an Overset Grid Method to the Large Eddy Simulation of a High-Speed Multistage Axial Compressor. , 2016, , .		8
64	On the sensitivity of a helicopter combustor wall temperature to convective and radiative thermal loads. <i>Applied Thermal Engineering</i> , 2016, 103, 1450-1459.	6.0	28
65	Conjugate heat transfer of a rib-roughened internal turbine blade cooling channel using large eddy simulation. <i>International Journal of Heat and Fluid Flow</i> , 2016, 61, 650-664.	2.4	30
66	Variations of Anchoring Pattern of a Bluff-Body Stabilized Laminar Premixed Flame as a Function of the Wall Temperature. , 2016, , .		0
67	Numerical investigation of combustion noise: The Entropy Wave Generator. , 2016, , .		4
68	Multiphase Flow Large-Eddy Simulation Study of the Fuel Split Effects on Combustion Instabilities in an Ultra-Low-NOx Annular Combustor. <i>Journal of Engineering for Gas Turbines and Power</i> , 2016, 138, .	1.1	3
69	Assessment of the Indirect Combustion Noise Generated in a Transonic High-Pressure Turbine Stage. <i>Journal of Engineering for Gas Turbines and Power</i> , 2016, 138, .	1.1	23
70	Combining LES of combustion chamber and an actuator disk theory to predict combustion noise in a helicopter engine. <i>Combustion and Flame</i> , 2016, 165, 272-287.	5.2	37
71	Noise mechanisms in a transonic high-pressure turbine stage. <i>International Journal of Aeroacoustics</i> , 2016, 15, 144-161.	1.3	17
72	LES Study of Transverse Acoustic Instabilities in a Swirled Kerosene/Air Combustion Chamber. <i>Flow, Turbulence and Combustion</i> , 2016, 96, 207-226.	2.6	35

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73	Multiphase Flow LES Study of the Fuel Split Effects on Combustion Instabilities in an Ultra Low-NOx Annular Combustor. , 2015, , .		4
74	Aerothermal Prediction of an Aeronautical Combustion Chamber Based on the Coupling of Large Eddy Simulation, Solid Conduction and Radiation Solvers. , 2015, , .		3
75	Experimental and Numerical Calculation of Turbulent Timescales at the Exit of an Engine Representative Combustor Simulator. , 2015, , .		3
76	Acoustic Analysis of a Liquid Fuel Swirl Combustor Using Dynamic Mode Decomposition. , 2015, , .		4
77	Multiscale and Multiresolution Approaches in Turbulence. AIAA Journal, 2015, 53, 511-511.	2.6	0
78	Analysis of high performance conjugate heat transfer with the OpenPALM coupler. Computational Science & Discovery, 2015, 8, 015003.	1.5	47
79	Steady/Unsteady Reynolds-Averaged Navier-Stokes and Large Eddy Simulations of a Turbine Blade at High Subsonic Outlet Mach Number. Journal of Turbomachinery, 2015, 137, .	1.7	25
80	Advanced Combustor Exit Plane Temperature Diagnostics Based on Large Eddy Simulations. Flow, Turbulence and Combustion, 2015, 95, 79-96.	2.6	14
81	LES of longitudinal and transverse self-excited combustion instabilities in a bluff-body stabilized turbulent premixed flame. Combustion and Flame, 2015, 162, 4075-4083.	5.2	88
82	Compatibility of Characteristic Boundary Conditions with Radial Equilibrium in Turbomachinery Simulations. AIAA Journal, 2014, 52, 2829-2839.	2.6	20
83	Large-Eddy Simulation and Conjugate Heat Transfer in a Round Impinging Jet. , 2014, , .		11
84	Development of an Engine Representative Combustor Simulator Dedicated to Hot Streak Generation. Journal of Turbomachinery, 2014, 136, .	1.7	27
85	Flame propagation in aeronautical swirled multi-burners: Experimental and numerical investigation. Combustion and Flame, 2014, 161, 2387-2405.	5.2	62
86	LES of bifurcation and hysteresis in confined annular swirling flows. Computers and Fluids, 2014, 89, 167-178.	2.5	11
87	Bistable swirled flames and influence on flame transfer functions. Combustion and Flame, 2014, 161, 184-196.	5.2	57
88	Development of an algebraic-closure-based moment method for unsteady Eulerian simulations of particle-laden turbulent flows in very dilute regime. International Journal of Multiphase Flow, 2014, 58, 257-278.	3.4	21
89	Large eddy simulation of flows in industrial compressors: a path from 2015 to 2035. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130323.	3.4	54
90	An overset grid method for large eddy simulation of turbomachinery stages. Journal of Computational Physics, 2014, 274, 333-355.	3.8	69

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91	Multiscale and Multiresolution Approaches in Turbulence, LES, DES and Hybrid RANS/LES Methods: Applications and Guidelines. AIAA Journal, 2014, 52, 1342-1343.	2.6	1
92	Large Eddy Simulation of a High Pressure Turbine Stage: Effects of Sub-Grid Scale Modeling and Mesh Resolution. , 2014, , .		8
93	Development of an Engine Representative Combustor Simulator Dedicated to Hot Streak Generation. , 2014, , .		0
94	Using LES to predict ignition sequences and ignition probability of turbulent two-phase flames. Combustion and Flame, 2013, 160, 1191-1207.	5.2	48
95	Towards Massively Parallel Large Eddy Simulation of Turbine Stages. , 2013, , .		11
96	LES Evaluation of Non-Linear Effects on the Dynamic Flame Response in a Real Gas Turbine Combustion Chamber. , 2013, , .		2
97	Experimental and Numerical Analysis of an Ignition Sequence in a Multiple-Injectors Burner. , 2013, , .		13
98	Large Eddy Simulation of Rotating Ribbed Channel. , 2013, , .		14
99	Massively parallel conjugate heat transfer methods relying on large eddy simulation applied to an aeronautical combustor. Computational Science & Discovery, 2013, 6, 015008.	1.5	32
100	RANS and LES for the Heat Transfer Prediction in Turbine Guide Vane. Journal of Propulsion and Power, 2012, 28, 423-433.	2.2	44
101	Steady and Unsteady Modeling for Heat Transfer Predictions of High Pressure Turbine Blade Internal Cooling. , 2012, , .		3
102	Large Eddy Simulation of Supersonic Impinging Jets. AIAA Journal, 2012, 50, 1560-1574.	2.6	45
103	Large Eddy Simulations of gaseous flames in gas turbine combustion chambers. Progress in Energy and Combustion Science, 2012, 38, 782-817.	31.2	373
104	Effects of free-stream turbulence on high pressure turbine blade heat transfer predicted by structured and unstructured LES. International Journal of Heat and Mass Transfer, 2012, 55, 5754-5768.	4.8	61
105	Acoustic and Large Eddy Simulation studies of azimuthal modes in annular combustion chambers. Combustion and Flame, 2012, 159, 3398-3413.	5.2	184
106	Large Eddy Simulation of combustion instabilities in a lean partially premixed swirled flame. Combustion and Flame, 2012, 159, 621-637.	5.2	274
107	Using LES to Study Reacting Flows and Instabilities in Annular Combustion Chambers. Flow, Turbulence and Combustion, 2012, 88, 191-206.	2.6	88
108	Numerical and Physical Instabilities in Massively Parallel LES of Reacting Flows. Journal of Scientific Computing, 2011, 49, 78-93.	2.3	9

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109	LES to Ease Understanding of Complex Unsteady Combustion Features of Ramjet Burners. Flow, Turbulence and Combustion, 2011, 87, 449-472.	2.6	8
110	Application of RANS and LES to the Prediction of Flows in High Pressure Turbine Components. , 2011, , .		3
111	Acoustically perturbed turbulent premixed swirling flames. Physics of Fluids, 2011, 23, .	4.0	83
112	Grid Effects on LES Thermo-Acoustic Limit-Cycle of a Full Annular Aeronautical Engine. ERCOFTAC Series, 2011, , 231-240.	0.1	2
113	Analysis of unsteady reacting flows and impact of chemistry description in Large Eddy Simulations of side-dump ramjet combustors. Combustion and Flame, 2010, 157, 176-191.	5.2	20
114	Advanced Numerical Simulation Dedicated to the Prediction of Heat Transfer in a Highly Loaded Turbine Guide Vane. , 2010, , .		8
115	Large Eddy Simulation of Stable Supersonic Jet Impinging on Flat Plate. AIAA Journal, 2010, 48, 2325-2338.	2.6	79
116	Steady/Unsteady Reynolds Averaged Navier-Stokes and Large Eddy Simulations of a Turbine Blade at High Subsonic Outlet Mach Number. , 2010, , .		5
117	Comparison of Nonreflecting Outlet Boundary Conditions for Compressible Solvers on Unstructured Grids. AIAA Journal, 2010, 48, 2348-2364.	2.6	85
118	Large Eddy Simulation of a Two-Phase Reacting Flow in an Experimental Burner. ERCOFTAC Series, 2010, , 345-351.	0.1	2
119	Computational-Fluid-Dynamics-Based Kriging Optimization Tool for Aeronautical Combustion Chambers. AIAA Journal, 2009, 47, 631-645.	2.6	38
120	Massively parallel LES of azimuthal thermo-acoustic instabilities in annular gas turbines. Journal of Physics: Conference Series, 2009, 180, 012035.	0.4	3
121	Experimental Investigation of the Jets in Crossflow: Nonswirling Flow Case. AIAA Journal, 2009, 47, 1079-1089.	2.6	10
122	Eulerian and Lagrangian Large-Eddy Simulations of an evaporating two-phase flow. Comptes Rendus - Mecanique, 2009, 337, 458-468.	2.1	28
123	Massively parallel LES of azimuthal thermo-acoustic instabilities in annular gas turbines. Comptes Rendus - Mecanique, 2009, 337, 385-394.	2.1	65
124	Comparison of numerical methods and combustion models for LES of a ramjet. Comptes Rendus - Mecanique, 2009, 337, 352-361.	2.1	11
125	Chemical kinetics modeling and LES combustion model effects on a perfectly premixed burner. Comptes Rendus - Mecanique, 2009, 337, 318-328.	2.1	16
126	High performance parallel computing of flows in complex geometries: I. Methods. Computational Science & Discovery, 2009, 2, 015003.	1.5	57

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127	High performance parallel computing of flows in complex geometries: II. Applications. Computational Science & Discovery, 2009, 2, 015004.	1.5	22
128	Prediction of the Ignition Phases in Aeronautical and Laboratory Burners using Large Eddy Simulations. , 2009, , .		0
129	Large eddy simulation of mean and oscillating flow in a side-dump ramjet combustor. Combustion and Flame, 2008, 152, 154-176.	5.2	62
130	Investigation of Two-Fluid Methods for Large Eddy Simulation of Spray Combustion in Gas Turbines. Flow, Turbulence and Combustion, 2008, 80, 291-321.	2.6	92
131	Effects of mesh resolution on large eddy simulation of reacting flows in complex geometry combustors. Combustion and Flame, 2008, 155, 196-214.	5.2	92
132	Large eddy simulations of turbulent reacting flows in real burners: the status and challenges. Journal of Physics: Conference Series, 2008, 125, 012029.	0.4	6
133	Mesh Dependency of Turbulent Reacting Large-Eddy Simulations of a Gas Turbine Combustion Chamber. ERCOFTAC Series, 2008, , 319-330.	0.1	4
134	Large Eddy Simulation of Combustion on Massively Parallel Machines. Lecture Notes in Computer Science, 2008, , 444-464.	1.3	2
135	Large-Eddy-Simulation Modeling for Aerothermal Predictions Behind a Jet In Crossflow. AIAA Journal, 2007, 45, 2438-2447.	2.6	16
136	Highly Parallel Large Eddy Simulations of Multiburner Configurations in Industrial Gas Turbines. , 2007, , 325-336.		4
137	LES and Acoustic Analysis of Turbulent Reacting Flows: Application to a 3D Oscillatory Remjet Combustor. , 2006, , .		2
138	System identification of a large-scale swirled partially premixed combustor using LES and measurements. Journal of Turbulence, 2005, 6, N21.	1.4	58
139	Experimental and Numerical Studies of Dilution Systems for Low-Emission Combustors. AIAA Journal, 2005, 43, 1753-1766.	2.6	22
140	Large eddy simulation predictions of mixing enhancement for jets in cross-flows. Journal of Turbulence, 2004, 5, .	1.4	32
141	Velocity filtered density function for large eddy simulation of turbulent flows. Physics of Fluids, 2002, 14, 1196-1213.	4.0	158