J-F Boussuge

List of Publications by Year
in descending order

38	665	567281	580821
38 papers	665 citations	15 h-index	25 g-index
38 all docs	38 docs citations	38 times ranked	384 citing authors

#	Article	IF	Citations
1	Recursive regularization step for high-order lattice Boltzmann methods. Physical Review E, 2017, 96, 033306.	2.1	99
2	High performance parallel computing of flows in complex geometries. Comptes Rendus - Mecanique, 2011, 339, 104-124.	2.1	59
3	High performance parallel computing of flows in complex geometries: I. Methods. Computational Science & Discovery, 2009, 2, 015003.	1.5	57
4	An extended spectral analysis of the lattice Boltzmann method: modal interactions and stability issues. Journal of Computational Physics, 2019, 380, 311-333.	3.8	45
5	Revisiting the spectral analysis for high-order spectral discontinuous methods. Journal of Computational Physics, 2017, 337, 379-402.	3.8	35
6	Improved compressible hybrid lattice Boltzmann method on standard lattice for subsonic and supersonic flows. Computers and Fluids, 2021, 219, 104867.	2.5	34
7	A robust low speed preconditioning formulation for viscous flow computations. Computers and Fluids, 2011, 47, 1-15.	2.5	32
8	Analysis and reduction of spurious noise generated at grid refinement interfaces with the lattice Boltzmann method. Journal of Computational Physics, 2020, 418, 109645.	3.8	29
9	Coupling of turbulence wall models and immersed boundaries on Cartesian grids. Journal of Computational Physics, 2021, 429, 109995.	3.8	29
10	Extended integral wall-model for large-eddy simulations of compressible wall-bounded turbulent flows. Physics of Fluids, 2018, 30, .	4.0	25
11	Linear stability and isotropy properties of athermal regularized lattice Boltzmann methods. Physical Review E, 2020, 102, 053305.	2.1	23
12	High performance parallel computing of flows in complex geometries: II. Applications. Computational Science & Discovery, 2009, 2, 015004.	1.5	22
13	A linear stability analysis of compressible hybrid lattice Boltzmann methods. Journal of Computational Physics, 2021, 446, 110649.	3.8	22
14	Lattice Boltzmann method for computational aeroacoustics on non-uniform meshes: A direct grid coupling approach. Journal of Computational Physics, 2021, 447, 110667.	3.8	19
15	Improved wall model treatment for aerodynamic flows in LBM. Computers and Fluids, 2021, 227, 105041.	2.5	17
16	Simulations of LAGOON landing-gear noise using Lattice Boltzmann Solver. , 2015, , .		16
17	Tonal Noise Prediction of a Modern Turbofan Engine With Large Upstream and Downstream Distortion. Journal of Turbomachinery, 2019, 141, .	1.7	16
18	Consistent vortex initialization for the athermal lattice Boltzmann method. Physical Review E, 2020, 101, 043306.	2.1	11

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19	Affordable Compressible LES of Airfoil-Turbulence Interaction in a Free Jet. , 2011, , .		10
20	Comparison of a finite volume and two Lattice Boltzmann solvers for swirled confined flows. Computers and Fluids, 2022, 241, 105463.	2.5	10
21	Effect of Distortion on Turbofan Tonal Noise at Cutback with Hybrid Methods. International Journal of Turbomachinery, Propulsion and Power, 2017, 2, 16.	1.1	9
22	Development of a new hybrid compressible solver inside the CFD elsA software. , 2011, , .		8
23	Large eddy simulation of a thermal impinging jet using the lattice Boltzmann method. Physics of Fluids, 2022, 34, .	4.0	7
24	Wall-Modelled Large-Eddy Simulation of a hot Jet-In-Cross-Flow with turbulent inflow generation. Computers and Fluids, 2014, 101, 136-154.	2.5	5
25	Hybrid RANSâ€"LES Simulation of Wingtip Vortex Dynamics. , 2014, , .		4
26	Simulation of a Low-Mach, High Reynolds Number Jet: First Step Towards the Simulation of Jet Noise Control by Micro-jets. , 2010, , .		3
27	Influence of Distortion on Fan Tonal Noise. , 2016, , .		3
28	Comparison of Various CFD Codes for LES Simulations of Turbomachinery: From Inviscid Vortex Convection to Multi-Stage Compressor. , 2018, , .		3
29	Numerical study on the relation between hydrodynamic fluctuations and noise in hot jets at high Reynolds number. , 2016, , .		2
30	Delineating Loss Sources Within a Linear Cascade With Upstream Cavity and Purge Flow. Journal of Turbomachinery, 2019, 141, .	1.7	2
31	Description of the flow in a linear cascade with an upstream cavity Part 1: Influence of turbulence (draft). Computers and Fluids, 2020, 199, 104361.	2.5	2
32	Numerical simulation of an axial compressor with nonaxisymmetric casing treatment. , 2009, , .		2
33	In-Plane Forces Prediction and Analysis in High-Speed Conditions on a Contra-Rotating Open Rotor. Journal of Turbomachinery, 2014, 136, .	1.7	1
34	Large Eddy Simulation of Shock-Cell Noise From a Dual Stream Jet. , 2016, , .		1
35	Description of the flow in a linear cascade with an upstream cavity part 2: Assessing the loss generated using an exergy formulation (draft). Computers and Fluids, 2020, 199, 104360.	2.5	1
36	Impact of inlet distortion on fan tonal noise. , 2017, , .		1

#	Article	IF	Citations
37	Description of the Flow in a Two-Stage Low-Pressure Turbine With Hub Cavities. Journal of Turbomachinery, 2020, 142, .	1.7	1
38	Numerical Investigation of the Tip Leakage Flow in a Multistage High Pressure Compressor. , 2009, , 217-229.		0