Jean-Baptiste Chapelier

List of Publications by Year
in descending order

		1307366	1372474
23 papers	255 citations	7 h-index	10 g-index
24 all docs	24 docs citations	24 times ranked	139 citing authors

#	Article	IF	Citations
1	hp -adaptive hybrid RANS/LES simulations for unstructured meshes with the discontinuous Galerkin method. , 2022, , .		2
2	Mitigation of post-shock oscillations induced by artificial viscosity in discontinuous finite element methods. Computers and Fluids, 2022, 241, 105491.	1.3	0
3	Direct numerical and large-eddy simulation of trefoil knotted vortices. Journal of Fluid Mechanics, 2021, 910, .	1.4	12
4	Development of an Explicitly Filtered Large-Eddy Simulation Framework for the Coherent-vorticity Preserving (CvP) Eddy Viscosity Correction. , 2021, , .		0
5	Large-eddy simulation of temporally developing double helical vortices. Journal of Fluid Mechanics, 2019, 863, 79-113.	1.4	6
6	Numerical Investigation of Second-Mode Attenuation over Carbon/Carbon Porous Surfaces. Journal of Spacecraft and Rockets, 2019, 56, 319-332.	1.3	33
7	A Coherent vorticity preserving eddy-viscosity correction for Large-Eddy Simulation. Journal of Computational Physics, 2018, 359, 164-182.	1.9	18
8	Coherent-vorticity Preserving Large-Eddy Simulation of trefoil knotted vortices. , 2018, , .		1
9	Numerical Investigation of Second Mode Attenuation over Carbon/Carbon Surfaces on a Sharp Slender Cone. , 2018, , .		3
10	Evaluation of the Spectral Element Dynamic Model for Large-Eddy Simulation on Unstructured, Deformed Meshes. Flow, Turbulence and Combustion, 2018, 101, 271-294.	1.4	7
11	Coherent-vorticity Preserving Large-Eddy Simulation of vortex rings under large perturbations. , 2018, , .		0
12	Assessment of spurious numerical oscillations in high-order spectral difference solvers for supercritical flows. , 2018, , .		1
13	Large-Eddy Simulation of the mutual induction dynamics of double helical vortices. , 2018, , .		0
14	Optimal high-order Spectral Difference schemes for the computation of aeroacoustics and turbulence. , 2017, , .		1
15	Development of adaptive subgrid scale models based on a large-scale vorticity sensor. , 2017, , .		1
16	Study of the Spectral Difference Numerical Dissipation for Turbulent Flows Using Unstructured Grids. Flow, Turbulence and Combustion, 2017, 99, 643-664.	1.4	4
17	Development of a multiscale LES model in the context of a modal discontinuous Galerkin method. Computer Methods in Applied Mechanics and Engineering, 2016, 307, 275-299.	3.4	33
18	A spectral-element dynamic model for the Large-Eddy simulation of turbulent flows. Journal of Computational Physics, 2016, 321, 279-302.	1.9	25

#	Article	IF	Citations
19	A study on the numerical dissipation of the Spectral Difference method for freely decaying and wall-bounded turbulence. Computers and Fluids, 2016, 139, 261-280.	1.3	22
20	Turbulent Flow Simulations with the High-Order DG Solver Aghora. , 2015, , .		5
21	Evaluation of a high-order discontinuous Galerkin method for the DNS of turbulent flows. Computers and Fluids, 2014, 95, 210-226.	1.3	62
22	Inviscid and Viscous Simulations of the Taylor-Green Vortex Flow Using a Modal Discontinuous Galerkin Approach. , 2012, , .		18
23	Video: Coherent-vorticity Preserving (CvP) Large-Eddy Simulation (LES) of Knotted Vortices. , 0, , .		1