Andrea Crivellini

List of Publications by Year in descending order

43 papers	1,150 citations	567281 15 h-index	395702 33 g-index
43 all docs	43 docs citations	43 times ranked	460 citing authors

#	Article	IF	Citations
1	Discontinuous Galerkin solution of the Reynolds-averaged Navier–Stokes and k–ω turbulence model equations. Computers and Fluids, 2005, 34, 507-540.	2.5	363
2	An artificial compressibility flux for the discontinuous Galerkin solution of the incompressible Navier–Stokes equations. Journal of Computational Physics, 2006, 218, 794-815.	3.8	130
3	An implicit high-order discontinuous Galerkin method for steady and unsteady incompressible flows. Computers and Fluids, 2007, 36, 1529-1546.	2.5	94
4	An implicit matrix-free Discontinuous Galerkin solver for viscous and turbulent aerodynamic simulations. Computers and Fluids, 2011, 50, 81-93.	2.5	61
5	A Spalart–Allmaras turbulence model implementation in a discontinuous Galerkin solver for incompressible flows. Journal of Computational Physics, 2013, 241, 388-415.	3.8	60
6	On the development of an implicit high-order Discontinuous Galerkin method for DNS and implicit LES of turbulent flows. European Journal of Mechanics, B/Fluids, 2016, 55, 367-379.	2.5	54
7	Spalart–Allmaras model apparent transition and RANS simulations of laminar separation bubbles on airfoils. International Journal of Heat and Fluid Flow, 2014, 47, 70-83.	2.4	35
8	High-order discontinuous Galerkin solutions of three-dimensional incompressible RANS equations. Computers and Fluids, 2013, 81, 122-133.	2.5	33
9	A high-order Discontinuous Galerkin solver for the incompressible RANS and k–ω turbulence model equations. Computers and Fluids, 2014, 98, 54-68.	2.5	31
10	Assessment of a high-order discontinuous Galerkin method for incompressible three-dimensional Navier–Stokes equations: Benchmark results for the flow past a sphere up to Re=500. Computers and Fluids, 2013, 86, 442-458.	2.5	24
11	Very High-Order Accurate Discontinuous Galerkin Computation of Transonic Turbulent Flows on Aeronautical Configurations. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2010, , 25-38.	0.3	23
12	Assessment of a high-order accurate Discontinuous Galerkin method for turbomachinery flows. International Journal of Computational Fluid Dynamics, 2016, 30, 307-328.	1.2	22
13	On the efficiency of a matrix-free linearly implicit time integration strategy for high-order Discontinuous Galerkin solutions of incompressible turbulent flows. Computers and Fluids, 2017, 159, 276-294.	2.5	22
14	Time Integration in the Discontinuous Galerkin Code MIGALE - Unsteady Problems. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2015, , 205-230.	0.3	19
15	A p-adaptive Matrix-Free Discontinuous Galerkin Method for the Implicit LES of Incompressible Transitional Flows. Flow, Turbulence and Combustion, 2020, 105, 437-470.	2.6	17
16	Entropy-Adjoint p-Adaptive Discontinuous Galerkin Method for the Under-Resolved Simulation of Turbulent Flows. AIAA Journal, 2020, 58, 3963-3977.	2.6	16
17	High-Order Discontinuous Galerkin Discretization of Transonic Turbulent Flows. , 2009, , .		15
18	p-Multigrid matrix-free discontinuous Galerkin solution strategies for the under-resolved simulation of incompressible turbulent flows. Computers and Fluids, 2020, 206, 104558.	2.5	12

#	Article	IF	Citations
19	Efficient discontinuous Galerkin implementations and preconditioners for implicit unsteady compressible flow simulations. Computers and Fluids, 2020, 203, 104542.	2.5	11
20	A Three-Dimensional Parallel Discontinuous Galerkin Solver for Acoustic Propagation Studies. International Journal of Aeroacoustics, 2003, 2, 157-173.	1.3	10
21	Time Integration in the Discontinuous Galerkin Code MIGALE - Steady Problems. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2015, , 179-204.	0.3	9
22	High-order discontinuous Galerkin RANS solutions of the incompressible flow over a delta wing. Computers and Fluids, 2013, 88, 663-677.	2.5	8
23	Assessment of a sponge layer as a non-reflective boundary treatment with highly accurate gustâ€"airfoil interaction results. International Journal of Computational Fluid Dynamics, 2016, 30, 176-200.	1.2	8
24	Assessment of a sponge layer non-reflecting boundary treatment for high-order CAA/CFD computations. Computers and Fluids, 2016, 140, 478-499.	2.5	7
25	Computational fluid dynamics analysis and design of an ostraciiform swimming robot. , 2017, , .		7
26	Numerical experiments in separating and reattaching flows. Physics of Fluids, 2020, 32, 095119.	4.0	7
27	Second derivative time integration methods for discontinuous Galerkin solutions of unsteady compressible flows. Journal of Computational Physics, 2017, 350, 493-517.	3.8	6
28	On the kinematics and dynamics parameters governing the flow in oscillating foils. Journal of Fluids and Structures, 2021, 101, 103220.	3.4	6
29	An entropy-adjoint p-adaptive discontinuous Galerkin method for the under-resolved simulation of turbulent flows. , 2019, , .		5
30	{h-p-hp}-Multilevel discontinuous Galerkin solution strategies for elliptic operators. International Journal of Computational Fluid Dynamics, 2019, 33, 362-370.	1.2	5
31	Study of laminar separation bubble on low Reynolds number operating airfoils: RANS modelling by means of an high-accuracy solver and experimental verification. Journal of Physics: Conference Series, 2014, 501, 012024.	0.4	4
32	OpenMP Parallelization Strategies for a Discontinuous Galerkin Solver. International Journal of Parallel Programming, 2019, 47, 838-873.	1.5	4
33	HYBRID OPENMP/MPI PARALLELIZATION OF A HIGHâ€"ORDER DISCONTINUOUS GALERKIN CFD SOLVER. , 2016, , .		4
34	A low-dissipation DG method for the under-resolved simulation of low Mach number turbulent flows. Computers and Mathematics With Applications, 2019, 77, 1739-1755.	2.7	3
35	Under-Resolved Simulation of Turbulent Flows Using a p-adaptive Discontinuous Galerkin Method. Springer Proceedings in Physics, 2019, , 157-162.	0.2	3
36	Matrixâ€free modified extended BDF applied to the discontinuous Galerkin solution of unsteady compressible viscous flows. International Journal for Numerical Methods in Fluids, 2018, 88, 544-572.	1.6	2

#	Article	IF	Citations
37	Implicit Methods. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2021, , 11-59.	0.3	2
38	Integrating Advanced CAE Tools and Testing Environments for the Design of Complex Mechanical Systems. , 2019, , 247-258.		2
39	Assessment of a Discontinuous Galerkin Method for the Simulation of the Turbulent Flow around the DrivAer Car Model. Applied Sciences (Switzerland), 2021, 11, 10202.	2.5	2
40	On the entropy conserving/stable implicit DG discretization of the Euler equations in entropy variables. Computers and Fluids, 2022, 232, 105198.	2.5	2
41	An implicit <i>p</i> â€adaptive Discontinuous Galerkin solver for CAA/CFD simulations. International Journal for Numerical Methods in Fluids, 0, , .	1.6	1
42	Visible Learning and synchronous online lesson in higher education: a study in engineering education. European Journal of Engineering Education, 2022, 47, 986-1008.	2.3	1
43	A Matrix-Free Incompressible DG Algorithm for the Simulation of Turbulent Flows. Springer Proceedings in Physics, 2017, , 153-159.	0.2	0