

Ralf Hartmann

List of Publications by Year in descending order

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31
papers

2,007
citations

471509

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h-index

580821

25
g-index

32
all docs

32
docs citations

32
times ranked

878
citing authors

#	ARTICLE	IF	CITATIONS
1	Implicit Methods. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2021, , 11-59.	0.3	2
2	Generation of unstructured curvilinear grids and high-order discontinuous Galerkin discretization applied to a 3D high-lift configuration. International Journal for Numerical Methods in Fluids, 2016, 82, 316-333.	1.6	17
3	Adjoint-Based Error Estimation and Mesh Refinement in an Adjoint-Based Airfoil Shape Optimization of a Transonic Benchmark Problem. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2016, , 537-546.	0.3	1
4	Generalized adjoint consistent treatment of wall boundary conditions for compressible flows. Journal of Computational Physics, 2015, 300, 754-778.	3.8	21
5	High-order unstructured grid generation and Discontinuous Galerkin discretization applied to a 3D high-lift configuration. , 2015, , .		8
6	A high-order discontinuous Galerkin method for all-speed flows. International Journal for Numerical Methods in Fluids, 2015, 77, 224-247.	1.6	13
7	Adjoint-based airfoil optimization with discretization error control. International Journal for Numerical Methods in Fluids, 2015, 77, 1-17.	1.6	16
8	Discontinuous Galerkin discretization of the Reynolds-averaged Navier-Stokes equations with the shear-stress transport model. Journal of Computational Physics, 2014, 262, 194-216.	3.8	22
9	Higher-order and adaptive discontinuous Galerkin methods with shock-capturing applied to transonic turbulent delta wing flow. International Journal for Numerical Methods in Fluids, 2013, 72, 883-894.	1.6	32
10	High-order CFD methods: current status and perspective. International Journal for Numerical Methods in Fluids, 2013, 72, 811-845.	1.6	704
11	A high-order accurate discontinuous Galerkin finite element method for laminar low Mach number flows. International Journal for Numerical Methods in Fluids, 2013, 72, 43-68.	1.6	17
12	Higher-Order and Adaptive Discontinuous Galerkin Methods Applied to Turbulent Delta Wing Flow. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2013, , 497-505.	0.3	2
13	Higher-Order and Adaptive Discontinuous Galerkin Methods with Shock-Capturing Applied to Transonic Turbulent Delta Wing Flow. , 2012, , .		2
14	Goal-oriented Error Estimation and hp-Adaptive Mesh Refinement for Aerodynamic Flows. , 2011, , .		2
15	ERROR ESTIMATION AND <i>hp</i> -ADAPTIVE MESH REFINEMENT FOR DISCONTINUOUS GALERKIN METHODS. Advances in Computational Fluid Dynamics, 2011, , 67-94.	0.1	15
16	Adjoint-based error estimation and adaptive mesh refinement for the RANS and $k-\epsilon$ turbulence model equations. Journal of Computational Physics, 2011, 230, 4268-4284.	3.8	75
17	Error estimation and anisotropic mesh refinement for 3d laminar aerodynamic flow simulations. Journal of Computational Physics, 2010, 229, 7344-7360.	3.8	92
18	Discontinuous Galerkin methods for computational aerodynamics – 3D adaptive flow simulation with the DLR PADGE code. Aerospace Science and Technology, 2010, 14, 512-519.	4.8	55

#	ARTICLE	IF	CITATIONS
19	Error Estimation and Adaptive Mesh Refinement for Aerodynamic Flows. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2010, , 339-353.	0.3	20
20	A discontinuous Galerkin method for inviscid low Mach number flows. Journal of Computational Physics, 2009, 228, 3996-4011.	3.8	35
21	Efficient preconditioning for the discontinuous Galerkin finite element method by low-order elements. Applied Numerical Mathematics, 2009, 59, 1737-1753.	2.1	5
22	Smoothed Aggregation Multigrid for the Discontinuous Galerkin Method. SIAM Journal of Scientific Computing, 2009, 31, 3503-3528.	2.8	20
23	Anisotropic mesh refinement for discontinuous Galerkin methods in two-dimensional aerodynamic flow simulations. International Journal for Numerical Methods in Fluids, 2008, 56, 2111-2138.	1.6	54
24	An optimal order interior penalty discontinuous Galerkin discretization of the compressible Navier-Stokes equations. Journal of Computational Physics, 2008, 227, 9670-9685.	3.8	141
25	Multitarget Error Estimation and Adaptivity in Aerodynamic Flow Simulations. SIAM Journal of Scientific Computing, 2008, 31, 708-731.	2.8	48
26	Adjoint Consistency Analysis of Discontinuous Galerkin Discretizations. SIAM Journal on Numerical Analysis, 2007, 45, 2671-2696.	2.3	133
27	The Role of the Jacobian in the Adaptive Discontinuous Galerkin Method for the Compressible Euler Equations. , 2005, , 301-316.		4
28	Adaptive Discontinuous Galerkin Finite Element Methods with Interior Penalty for the Compressible Navier-Stokes Equations. , 2004, , 410-419.		0
29	Adaptive Discontinuous Galerkin Finite Element Methods for Nonlinear Hyperbolic Conservation Laws. SIAM Journal of Scientific Computing, 2003, 24, 979-1004.	2.8	122
30	Goal-Oriented A Posteriori Error Estimation for Multiple Target Functionals. , 2003, , 579-588.		18
31	Adaptive Discontinuous Galerkin Finite Element Methods for the Compressible Euler Equations. Journal of Computational Physics, 2002, 183, 508-532.	3.8	311