

Bruno Despres

List of Publications by Year in descending order

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23
papers

1,204
citations

687363

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839539

18
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23
all docs

23
docs citations

23
times ranked

550
citing authors

#	ARTICLE	IF	CITATIONS
1	Trefftz discontinuous Galerkin basis functions for a class of Friedrichs systems coming from linear transport. <i>Advances in Computational Mathematics</i> , 2020, 46, 1.	1.6	7
2	Lagrangian Godunov Schemes. , 2020, , 119-124.		0
3	Trefftz Discontinuous Galerkin Method for Friedrichs Systems with Linear Relaxation: Application to the P 1 Model. <i>Computational Methods in Applied Mathematics</i> , 2018, 18, 521-557.	0.8	6
4	Navier-Stokes Hierarchies of Reduced MHD Models in Tokamak Geometry. <i>Journal of Mathematical Fluid Mechanics</i> , 2018, 20, 329-357.	1.0	0
5	Polynomials with bounds and numerical approximation. <i>Numerical Algorithms</i> , 2017, 76, 829-859.	1.9	8
6	High-Resolution Mathematical and Numerical Analysis of Involution-Constrained PDEs. <i>Oberwolfach Reports</i> , 2013, 10, 2691-2747.	0.0	0
7	Robust Uncertainty Propagation in Systems of Conservation Laws with the Entropy Closure Method. <i>Lecture Notes in Computational Science and Engineering</i> , 2013, , 105-149.	0.3	19
8	Stabilization of cell-centered compressible Lagrangian methods using subzonal entropy. <i>Journal of Computational Physics</i> , 2012, 231, 6559-6595.	3.8	20
9	Design of asymptotic preserving finite volume schemes for the hyperbolic heat equation on unstructured meshes. <i>Numerische Mathematik</i> , 2012, 122, 227-278.	1.9	34
10	Treatment of uncertain material interfaces in compressible flows. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011, 200, 284-308.	6.6	13
11	Weak consistency of the cell-centered Lagrangian GLACE scheme on general meshes in any dimension. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2010, 199, 2669-2679.	6.6	26
12	Uncertainty quantification for systems of conservation laws. <i>Journal of Computational Physics</i> , 2009, 228, 2443-2467.	3.8	156
13	Perfect plasticity and hyperelastic models for isotropic materials. <i>Continuum Mechanics and Thermodynamics</i> , 2008, 20, 173-192.	2.2	15
14	Genuinely Multi-Dimensional Non-Dissipative Finite-Volume Schemes for Transport. <i>International Journal of Applied Mathematics and Computer Science</i> , 2007, 17, 321-328.	1.5	4
15	Asymptotic preserving and positive schemes for radiation hydrodynamics. <i>Journal of Computational Physics</i> , 2006, 215, 717-740.	3.8	63
16	Lagrangian Gas Dynamics in Two Dimensions and Lagrangian systems. <i>Archive for Rational Mechanics and Analysis</i> , 2005, 178, 327-372.	2.4	195
17	Asymptotic analysis of fluid models for the coupling of radiation and hydrodynamics. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2004, 85, 385-418.	2.3	97
18	Using Plane Waves as Base Functions for Solving Time Harmonic Equations with the Ultra Weak Variational Formulation. <i>Journal of Computational Acoustics</i> , 2003, 11, 227-238.	1.0	105

#	ARTICLE	IF	CITATIONS
19	Lagrangian systems of conservation laws. Numerische Mathematik, 2001, 89, 99-134.	1.9	29
20	Contact Discontinuity Capturing Schemes for Linear Advection and Compressible Gas Dynamics. Journal of Scientific Computing, 2001, 16, 479-524.	2.3	93
21	Entropy Inequality for High Order Discontinuous Galerkin Approximation of Euler Equations. , 1999, , 225-231.		0
22	Application of an Ultra Weak Variational Formulation of Elliptic PDEs to the Two-Dimensional Helmholtz Problem. SIAM Journal on Numerical Analysis, 1998, 35, 255-299.	2.3	314
23	A Trefftz method with reconstruction of the normal derivative applied to elliptic equations. , 0, , .		0