

Sebastian Noelle

List of Publications by Year in descending order

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44
papers

2,409
citations

393982

19
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315357

38
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47
all docs

47
docs citations

47
times ranked

1059
citing authors

#	ARTICLE	IF	CITATIONS
1	A unified surface-gradient and hydrostatic reconstruction scheme for the shallow water equations. <i>Journal of Computational Physics</i> , 2022, 467, 111463.	1.9	5
2	Well-balanced discontinuous Galerkin scheme for $2\hat{\epsilon}^{-2}$ hyperbolic balance law. <i>Journal of Computational Physics</i> , 2021, 429, 110011.	1.9	6
3	Comparison of Fast Shallow-Water Schemes on Real-World Floods. <i>Journal of Hydraulic Engineering</i> , 2020, 146, 05019005.	0.7	9
4	A fast second-order shallow water scheme on two-dimensional structured grids over abrupt topography. <i>Advances in Water Resources</i> , 2019, 127, 89-108.	1.7	36
5	A note on the stability of implicit-explicit flux-splittings for stiff systems of hyperbolic conservation laws. <i>Communications in Mathematical Sciences</i> , 2018, 16, 1-15.	0.5	9
6	Comparison of Shallow Water Models for Rapid Channel Flows. <i>Springer Proceedings in Mathematics and Statistics</i> , 2018, , 605-616.	0.1	0
7	A New Hydrostatic Reconstruction Scheme Based on Subcell Reconstructions. <i>SIAM Journal on Numerical Analysis</i> , 2017, 55, 758-784.	1.1	46
8	A New Stable Splitting for the Isentropic Euler Equations. <i>Journal of Scientific Computing</i> , 2017, 70, 1390-1407.	1.1	19
9	Flux Splitting for Stiff Equations: A Notion on Stability. <i>Journal of Scientific Computing</i> , 2015, 64, 522-540.	1.1	13
10	IMEX Large Time Step Finite Volume Methods for Low Froude Number Shallow Water Flows. <i>Communications in Computational Physics</i> , 2014, 16, 307-347.	0.7	38
11	A Well-Balanced Reconstruction of Wet/Dry Fronts for the Shallow Water Equations. <i>Journal of Scientific Computing</i> , 2013, 56, 267-290.	1.1	93
12	A well-balanced stable generalized Riemann problem scheme for shallow water equations using adaptive moving unstructured triangular meshes. <i>International Journal for Numerical Methods in Fluids</i> , 2013, 73, 266-283.	0.9	18
13	A Note on Adjoint Error Estimation for One-Dimensional Stationary Balance Laws with Shocks. <i>SIAM Journal on Numerical Analysis</i> , 2013, 51, 126-136.	1.1	1
14	Finite Volume Evolution Galerkin Methods for the Shallow Water Equations with Dry Beds. <i>Communications in Computational Physics</i> , 2011, 10, 371-404.	0.7	84
15	On the Advantage of Well-Balanced Schemes for Moving-Water Equilibria of the Shallow Water Equations. <i>Journal of Scientific Computing</i> , 2011, 48, 339-349.	1.1	70
16	On adaptive timestepping for weakly instationary solutions of hyperbolic conservation laws via adjoint error control. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2010, 26, 790-806.	1.0	5
17	Adaptive Timestep Control for Nonstationary Solutions of the Euler Equations. <i>SIAM Journal of Scientific Computing</i> , 2010, 32, 1617-1651.	1.3	2
18	Timestep Control for Weakly Instationary Flows. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , 2010, , 53-75.	0.2	0

#	ARTICLE	IF	CITATIONS
19	High-order well-balanced finite-volume schemes for barotropic flows: Development and numerical comparisons. <i>Ocean Modelling</i> , 2007, 18, 53-79.	1.0	9
20	Well-balanced finite volume evolution Galerkin methods for the shallow water equations. <i>Journal of Computational Physics</i> , 2007, 221, 122-147.	1.9	66
21	High-order well-balanced finite volume WENO schemes for shallow water equation with moving water. <i>Journal of Computational Physics</i> , 2007, 226, 29-58.	1.9	202
22	3D adaptive central schemes: Part I. Algorithms for assembling the dual mesh. <i>Applied Numerical Mathematics</i> , 2006, 56, 778-799.	1.2	5
23	Well-balanced finite volume schemes of arbitrary order of accuracy for shallow water flows. <i>Journal of Computational Physics</i> , 2006, 213, 474-499.	1.9	254
24	Numerical comparison of the method of transport to a standard scheme. <i>Computers and Fluids</i> , 2005, 34, 541-560.	1.3	3
25	On the connection between some Riemann-solver free approaches to the approximation of multi-dimensional systems of hyperbolic conservation laws. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2004, 38, 989-1009.	0.8	4
26	Title is missing!. <i>Journal of Scientific Computing</i> , 2003, 18, 69-81.	1.1	13
27	Shock waves, dead zones and particle-free regions in rapid granular free-surface flows. <i>Journal of Fluid Mechanics</i> , 2003, 491, 161-181.	1.4	262
28	On the Artificial Compression Method for Second-Order Nonoscillatory Central Difference Schemes for Systems of Conservation Laws. <i>SIAM Journal of Scientific Computing</i> , 2003, 24, 1157-1174.	1.3	100
29	Convergence of Approximate Solutions of Conservation Laws. , 2003, , 417-430.		2
30	Shock-Capturing and Front-Tracking Methods for Granular Avalanches. <i>Journal of Computational Physics</i> , 2002, 175, 269-301.	1.9	112
31	Multidimensional Flux-Vector-Splitting and High-Resolution Characteristic Schemes. , 2001, , 671-676.		0
32	Semidiscrete Central-Upwind Schemes for Hyperbolic Conservation Laws and Hamilton-Jacobi Equations. <i>SIAM Journal of Scientific Computing</i> , 2001, 23, 707-740.	1.3	691
33	Flow of dense avalanches past obstructions. <i>Annals of Glaciology</i> , 2001, 32, 281-284.	2.8	54
34	An accurate shock-capturing finite-difference method to solve the Savage-Hutter equations in avalanche dynamics. <i>Annals of Glaciology</i> , 2001, 32, 263-267.	2.8	19
35	The MoT-ICE: A New Multi-dimensional Wave-propagation-algorithm Based on Feynman's Method of Transport. With Application to the Euler- and MHD-equations. , 2001, , 373-380.		1
36	An Adaptive Staggered Grid Scheme for Conservation Laws. , 2001, , 775-784.		3

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37	The MoT-ICE: A New High-Resolution Wave-Propagation Algorithm for Multidimensional Systems of Conservation Laws Based on Fey's Method of Transport. <i>Journal of Computational Physics</i> , 2000, 164, 283-334.	1.9	36
38	A New Convergence Proof for Finite Volume Schemes Using the Kinetic Formulation of Conservation Laws. <i>SIAM Journal on Numerical Analysis</i> , 2000, 37, 742-757.	1.1	16
39	Radially symmetric solutions for a class of hyperbolic systems of conservation laws. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 1997, 48, 676-679.	0.7	1
40	A note on entropy inequalities and error estimates for higher-order accurate finite volume schemes on irregular families of grids. <i>Mathematics of Computation</i> , 1996, 65, 1155-1164.	1.1	19
41	Development of singularities for the complex Burgers' equation. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1996, 26, 1313-1321.	0.6	4
42	Convergence of higher order upwind finite volume schemes on unstructured grids for scalar conservation laws in several space dimensions. <i>Numerische Mathematik</i> , 1995, 71, 527-560.	0.9	54
43	Convergence of higher order finite volume schemes on irregular grids. <i>Advances in Computational Mathematics</i> , 1995, 3, 197-218.	0.8	20
44	Hyperbolic Systems of Conservation Laws, the Weyl Equation, and Multidimensional Upwinding. <i>Journal of Computational Physics</i> , 1994, 115, 22-26.	1.9	5