

Dmitri Kuzmin

List of Publications by Year in descending order

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44
papers

1,135
citations

687220

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395590

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docs citations

44
times ranked

887
citing authors

#	ARTICLE	IF	CITATIONS
1	An assessment of solvers for algebraically stabilized discretizations of convection–diffusion–reaction equations. <i>Journal of Numerical Mathematics</i> , 2023, 31, 79-103.	1.8	2
2	Limiter-based entropy stabilization of semi-discrete and fully discrete schemes for nonlinear hyperbolic problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 389, 114428.	3.4	15
3	Bound-preserving Flux Limiting for High-Order Explicit Runge–Kutta Time Discretizations of Hyperbolic Conservation Laws. <i>Journal of Scientific Computing</i> , 2022, 91, 1.	1.1	9
4	An unfitted finite element method using level set functions for extrapolation into deformable diffuse interfaces. <i>Journal of Computational Physics</i> , 2022, 461, 111218.	1.9	1
5	A new perspective on flux and slope limiting in discontinuous Galerkin methods for hyperbolic conservation laws. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 373, 113569.	3.4	5
6	Entropy stabilization and property-preserving limiters for $\hat{\mathbf{a}}_1$ discontinuous Galerkin discretizations of scalar hyperbolic problems. <i>Journal of Numerical Mathematics</i> , 2021, 29, 307-322.	1.8	12
7	Matrix-free subcell residual distribution for Bernstein finite element discretizations of linear advection equations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 359, 112658.	3.4	13
8	Bound-preserving flux limiting schemes for DG discretizations of conservation laws with applications to the Cahn–Hilliard equation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 359, 112665.	3.4	12
9	Algebraic entropy fixes and convex limiting for continuous finite element discretizations of scalar hyperbolic conservation laws. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 372, 113370.	3.4	11
10	Entropy conservation property and entropy stabilization of high-order continuous Galerkin approximations to scalar conservation laws. <i>Computers and Fluids</i> , 2020, 213, 104742.	1.3	14
11	A linearity preserving nodal variation limiting algorithm for continuous Galerkin discretization of ideal MHD equations. <i>Journal of Computational Physics</i> , 2020, 410, 109390.	1.9	9
12	Limiting and divergence cleaning for continuous finite element discretizations of the MHD equations. <i>Journal of Computational Physics</i> , 2020, 407, 109230.	1.9	11
13	Matrix-free subcell residual distribution for Bernstein finite elements: Monolithic limiting. <i>Computers and Fluids</i> , 2020, 200, 104451.	1.3	11
14	Monolithic convex limiting for continuous finite element discretizations of hyperbolic conservation laws. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 361, 112804.	3.4	35
15	Locally bound-preserving enriched Galerkin methods for the linear advection equation. <i>Computers and Fluids</i> , 2020, 205, 104525.	1.3	7
16	Subcell flux limiting for high-order Bernstein finite element discretizations of scalar hyperbolic conservation laws. <i>Journal of Computational Physics</i> , 2020, 411, 109411.	1.9	13
17	Gradient-Based Limiting and Stabilization of Continuous Galerkin Methods. <i>Lecture Notes in Computational Science and Engineering</i> , 2020, , 331-339.	0.1	0
18	A partition of unity approach to adaptivity and limiting in continuous finite element methods. <i>Computers and Mathematics With Applications</i> , 2019, 78, 944-957.	1.4	12

#	ARTICLE	IF	CITATIONS
19	New directional vector limiters for discontinuous Galerkin methods. Journal of Computational Physics, 2019, 384, 308-325.	1.9	13
20	A flux-corrected RBF-FD method for convection dominated problems in domains and on manifolds. Journal of Numerical Mathematics, 2019, 27, 253-269.	1.8	9
21	A monolithic conservative level set method with built-in redistancing. Journal of Computational Physics, 2019, 379, 262-278.	1.9	14
22	Local bounds preserving stabilization for continuous Galerkin discretization of hyperbolic systems. Journal of Computational Physics, 2018, 361, 82-110.	1.9	11
23	Gradient-based nodal limiters for artificial diffusion operators in finite element schemes for transport equations. International Journal for Numerical Methods in Fluids, 2017, 84, 675-695.	0.9	11
24	An FCT finite element scheme for ideal MHD equations in 1D and 2D. Journal of Computational Physics, 2017, 338, 585-605.	1.9	5
25	Flux-corrected transport algorithms for continuous Galerkin methods based on high order Bernstein finite elements. Journal of Computational Physics, 2017, 344, 151-186.	1.9	42
26	Linearity-preserving monotone local projection stabilization schemes for continuous finite elements. Computer Methods in Applied Mechanics and Engineering, 2017, 322, 23-41.	3.4	19
27	Anisotropic slope limiting for discontinuous Galerkin methods. International Journal for Numerical Methods in Fluids, 2017, 84, 543-565.	0.9	12
28	Optimal control for reinitialization in finite element level set methods. International Journal for Numerical Methods in Fluids, 2017, 84, 292-305.	0.9	10
29	Synchronized flux limiting for gas dynamics variables. Journal of Computational Physics, 2016, 326, 973-990.	1.9	17
30	Scale separation in fast hierarchical solvers for discontinuous Galerkin methods. Applied Mathematics and Computation, 2015, 266, 838-849.	1.4	10
31	A nonlinear ALE-FCT scheme for non-equilibrium reactive solute transport in moving domains. International Journal for Numerical Methods in Fluids, 2014, 76, 875-908.	0.9	2
32	An optimization-based approach to enforcing mass conservation in level set methods. Journal of Computational and Applied Mathematics, 2014, 258, 78-86.	1.1	8
33	Optimal control for mass conservative level set methods. Journal of Computational and Applied Mathematics, 2014, 270, 343-352.	1.1	4
34	Hierarchical slope limiting in explicit and implicit discontinuous Galerkin methods. Journal of Computational Physics, 2014, 257, 1140-1162.	1.9	39
35	Finite Element Methods for Computational Fluid Dynamics: A Practical Guide. , 2014, , .		14
36	A minimization-based finite element formulation for interface-preserving level set reinitialization. Computing (Vienna/New York), 2013, 95, 13-25.	3.2	21

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37	Slope limiting for discontinuous Galerkin approximations with a possibly non-orthogonal Taylor basis. <i>International Journal for Numerical Methods in Fluids</i> , 2013, 71, 1178-1190.	0.9	45
38	Linearity-preserving flux correction and convergence acceleration for constrained Galerkin schemes. <i>Journal of Computational and Applied Mathematics</i> , 2012, 236, 2317-2337.	1.1	43
39	Algebraic Flux Correction I. <i>Scientific Computation</i> , 2012, , 145-192.	0.2	17
40	Failsafe flux limiting and constrained data projections for equations of gas dynamics. <i>Journal of Computational Physics</i> , 2010, 229, 8766-8779.	1.9	39
41	Goal-oriented a posteriori error estimates for transport problems. <i>Mathematics and Computers in Simulation</i> , 2010, 80, 1674-1683.	2.4	15
42	A vertex-based hierarchical slope limiter for p -adaptive discontinuous Galerkin methods. <i>Journal of Computational and Applied Mathematics</i> , 2010, 233, 3077-3085.	1.1	407
43	Goal-oriented mesh adaptation for flux-limited approximations to steady hyperbolic problems. <i>Journal of Computational and Applied Mathematics</i> , 2010, 233, 3113-3120.	1.1	10
44	Explicit and implicit FEM-FCT algorithms with flux linearization. <i>Journal of Computational Physics</i> , 2009, 228, 2517-2534.	1.9	106