

Jesse Chan

List of Publications by Year in descending order

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39
papers

663
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567281

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g-index

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all docs

40
docs citations

40
times ranked

356
citing authors

#	ARTICLE	IF	CITATIONS
1	On discretely entropy conservative and entropy stable discontinuous Galerkin methods. Journal of Computational Physics, 2018, 362, 346-374.	3.8	89
2	A robust DPG method for convection-dominated diffusion problems II: Adjoint boundary conditions and mesh-dependent test norms. Computers and Mathematics With Applications, 2014, 67, 771-795.	2.7	72
3	GPU-accelerated discontinuous Galerkin methods on hybrid meshes. Journal of Computational Physics, 2016, 318, 142-168.	3.8	56
4	Efficient Entropy Stable Gauss Collocation Methods. SIAM Journal of Scientific Computing, 2019, 41, A2938-A2966.	2.8	35
5	A DPG method for steady viscous compressible flow. Computers and Fluids, 2014, 98, 69-90.	2.5	32
6	Locally conservative discontinuous Petrov-Galerkin finite elements for fluid problems. Computers and Mathematics With Applications, 2014, 68, 1530-1549.	2.7	31
7	On discretely entropy stable weight-adjusted discontinuous Galerkin methods: curvilinear meshes. Journal of Computational Physics, 2019, 378, 366-393.	3.8	24
8	Entropy stable reduced order modeling of nonlinear conservation laws. Journal of Computational Physics, 2020, 423, 109789.	3.8	23
9	A dual Petrov-Galerkin finite element method for the convection-diffusion equation. Computers and Mathematics With Applications, 2014, 68, 1513-1529.	2.7	21
10	A weight-adjusted discontinuous Galerkin method for the poroelastic wave equation: Penalty fluxes and micro-heterogeneities. Journal of Computational Physics, 2020, 403, 109061.	3.8	21
11	Skew-Symmetric Entropy Stable Modal Discontinuous Galerkin Formulations. Journal of Scientific Computing, 2019, 81, 459-485.	2.3	20
12	Weight-Adjusted Discontinuous Galerkin Methods: Curvilinear Meshes. SIAM Journal of Scientific Computing, 2017, 39, A2395-A2421.	2.8	19
13	Weight-Adjusted Discontinuous Galerkin Methods: Wave Propagation in Heterogeneous Media. SIAM Journal of Scientific Computing, 2017, 39, A2935-A2961.	2.8	19
14	Multi-patch discontinuous Galerkin isogeometric analysis for wave propagation: Explicit time-stepping and efficient mass matrix inversion. Computer Methods in Applied Mechanics and Engineering, 2018, 333, 22-54.	6.6	19
15	Surgeon Type and Outcomes After Inpatient Ankle Arthrodesis and Total Ankle Arthroplasty. Journal of Bone and Joint Surgery - Series A, 2019, 101, 127-135.	3.0	17
16	Weight-adjusted discontinuous Galerkin methods: Matrix-valued weights and elastic wave propagation in heterogeneous media. International Journal for Numerical Methods in Engineering, 2018, 113, 1779-1809.	2.8	16
17	A Comparison of High Order Interpolation Nodes for the Pyramid. SIAM Journal of Scientific Computing, 2015, 37, A2151-A2170.	2.8	15
18	GPU-Accelerated Bernstein-Bézier Discontinuous Galerkin Methods for Wave Problems. SIAM Journal of Scientific Computing, 2017, 39, A628-A654.	2.8	15

#	ARTICLE	IF	CITATIONS
19	High-order entropy stable discontinuous Galerkin methods for the shallow water equations: Curved triangular meshes and GPU acceleration. Computers and Mathematics With Applications, 2021, 82, 179-199.	2.7	15
20	A geometric multigrid preconditioning strategy for DPG system matrices. Computers and Mathematics With Applications, 2017, 74, 2018-2043.	2.7	13
21	Entropy stable modal discontinuous Galerkin schemes and wall boundary conditions for the compressible Navier-Stokes equations. Journal of Computational Physics, 2022, 448, 110723.	3.8	11
22	A GPU-accelerated nodal discontinuous Galerkin method with high-order absorbing boundary conditions and corner/edge compatibility. International Journal for Numerical Methods in Engineering, 2017, 112, 1659-1686.	2.8	10
23	On the penalty stabilization mechanism for upwind discontinuous Galerkin formulations of first order hyperbolic systems. Computers and Mathematics With Applications, 2017, 74, 3099-3110.	2.7	8
24	A Short Note on a Bernstein-Bezier Basis for the Pyramid. SIAM Journal of Scientific Computing, 2016, 38, A2162-A2172.	2.8	7
25	On the Entropy Projection and the Robustness of High Order Entropy Stable Discontinuous Galerkin Schemes for Under-Resolved Flows. Frontiers in Physics, 0, 10, .	2.1	7
26	Orthogonal Bases for Vertex-Mapped Pyramids. SIAM Journal of Scientific Computing, 2016, 38, A1146-A1170.	2.8	6
27	$\langle \text{finite element trace inequalities for the pyramid} \rangle$. Computers and Mathematics With Applications, 2015, 69, 510-517.	2.7	5
28	Robust DPG Methods for Transient Convection-Diffusion. Lecture Notes in Computational Science and Engineering, 2016, , 179-203.	0.3	5
29	Efficient computation of Jacobian matrices for entropy stable summation-by-parts schemes. Journal of Computational Physics, 2022, 448, 110701.	3.8	5
30	Provably stable flux reconstruction high-order methods on curvilinear elements. Journal of Computational Physics, 2022, 463, 111259.	3.8	5
31	Bernstein-Bezier weight-adjusted discontinuous Galerkin methods for wave propagation in heterogeneous media. Journal of Computational Physics, 2020, 400, 108971.	3.8	4
32	A weight-adjusted discontinuous Galerkin method for wave propagation in coupled elastic-acoustic media. Journal of Computational Physics, 2020, 418, 109632.	3.8	4
33	A high order discontinuous Galerkin method for the symmetric form of the anisotropic viscoelastic wave equation. Computers and Mathematics With Applications, 2021, 99, 113-132.	2.7	4
34	Variations on Hermite Methods for Wave Propagation. Communications in Computational Physics, 2017, 22, 303-337.	1.7	2
35	Leapfrog Time-Stepping for Hermite Methods. Journal of Scientific Computing, 2019, 80, 289-314.	2.3	2
36	Entropy Stable Discontinuous Galerkin Methods for Nonlinear Conservation Laws on Networks and Multi-Dimensional Domains. Journal of Scientific Computing, 2021, 87, 1.	2.3	2

#	ARTICLE	IF	CITATIONS
37	Reduced storage nodal discontinuous Galerkin methods on semi-structured prismatic meshes. Computers and Mathematics With Applications, 2017, 73, 775-793.	2.7	1
38	Mortar-based Entropy-Stable Discontinuous Galerkin Methods on Non-conforming Quadrilateral and Hexahedral Meshes. Journal of Scientific Computing, 2021, 89, 1.	2.3	1
39	High order weight-adjusted discontinuous Galerkin methods for wave propagation on moving curved meshes. International Journal for Numerical Methods in Engineering, 0, , .	2.8	0