

Yuwei

List of Publications by Year in descending order

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26
papers

583
citations

623188

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610482

24
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27
all docs

27
docs citations

27
times ranked

209
citing authors

#	ARTICLE	IF	CITATIONS
1	Globally Hyperbolic Regularization of Grad's Moment System. Communications on Pure and Applied Mathematics, 2014, 67, 464-518.	1.2	84
2	Globally hyperbolic regularization of Grad's moment system in one-dimensional space. Communications in Mathematical Sciences, 2013, 11, 547-571.	0.5	65
3	Solving electrical impedance tomography with deep learning. Journal of Computational Physics, 2020, 404, 109119.	1.9	63
4	A Framework on Moment Model Reduction for Kinetic Equation. SIAM Journal on Applied Mathematics, 2015, 75, 2001-2023.	0.8	44
5	Model Reduction of Kinetic Equations by Operator Projection. Journal of Statistical Physics, 2016, 162, 457-486.	0.5	42
6	On hyperbolicity of 13-moment system. Kinetic and Related Models, 2014, 7, 415-432.	0.5	31
7	BCR-Net: A neural network based on the nonstandard wavelet form. Journal of Computational Physics, 2019, 384, 1-15.	1.9	28
8	A Multiscale Neural Network Based on Hierarchical Matrices. Multiscale Modeling and Simulation, 2019, 17, 1189-1213.	0.6	24
9	A multiscale neural network based on hierarchical nested bases. Research in Mathematical Sciences, 2019, 6, 1.	0.5	19
10	Meta-learning pseudo-differential operators with deep neural networks. Journal of Computational Physics, 2020, 408, 109309.	1.9	19
11	Quantum hydrodynamic model by moment closure of Wigner equation. Journal of Mathematical Physics, 2012, 53, .	0.5	18
12	Dimension-Reduced Hyperbolic Moment Method for the Boltzmann Equation with BGK-Type Collision. Communications in Computational Physics, 2014, 15, 1368-1406.	0.7	17
13	Fast algorithms for integral formulations of steady-state radiative transfer equation. Journal of Computational Physics, 2019, 380, 191-211.	1.9	17
14	Accelerating the Convergence of the Moment Method for the Boltzmann Equation Using Filters. Journal of Scientific Computing, 2020, 84, 1.	1.1	17
15	Linear Stability of Hyperbolic Moment Models for Boltzmann Equation. Numerical Mathematics, 2017, 10, 255-277.	0.6	14
16	An Entropic Fourier Method for the Boltzmann Equation. SIAM Journal of Scientific Computing, 2018, 40, A2858-A2882.	1.3	12
17	Filtered Hyperbolic Moment Method for the Vlasov Equation. Journal of Scientific Computing, 2019, 79, 969-991.	1.1	10
18	A nonlinear moment model for radiative transfer equation in slab geometry. Journal of Computational Physics, 2020, 404, 109128.	1.9	10

#	ARTICLE	IF	CITATIONS
19	A Nonlinear Hyperbolic Model for Radiative Transfer Equation in Slab Geometry. SIAM Journal on Applied Mathematics, 2020, 80, 2388-2419.	0.8	9
20	Globally hyperbolic moment system by generalized Hermite expansion. Scientia Sinica Mathematica, 2015, 45, 1635-1676.	0.1	9
21	Quantum hydrodynamic model of density functional theory. Journal of Mathematical Chemistry, 2013, 51, 1747-1771.	0.7	7
22	13-Moment System with Global Hyperbolicity for Quantum Gas. Journal of Statistical Physics, 2017, 167, 1280-1302.	0.5	7
23	Burnett spectral method for the spatially homogeneous Boltzmann equation. Computers and Fluids, 2020, 200, 104456.	1.3	7
24	Resolving Knudsen layer by high-order moment expansion. Continuum Mechanics and Thermodynamics, 2019, 31, 1313-1337.	1.4	5
25	Multilevel Fine-Tuning: Closing Generalization Gaps in Approximation of Solution Maps under a Limited Budget for Training Data. Multiscale Modeling and Simulation, 2021, 19, 344-373.	0.6	3
26	The development and application of the moment method in the gas kinetic theory. Scientia Sinica Informationis, 2016, 46, 1465-1488.	0.2	2