

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

26

papers

351

citations

11

h-index

18

g-index

27

ext. papers

457

ext. citations

2.1

avg, IF

4.25

L-index

#	Paper	IF	Citations
26	Globally Hyperbolic Regularization of Grad's Moment System. <i>Communications on Pure and Applied Mathematics</i> , 2014 , 67, 464-518	2.5	58
25	Globally hyperbolic regularization of Grad's moment system in one-dimensional space. <i>Communications in Mathematical Sciences</i> , 2013 , 11, 547-571	1	44
24	A Framework on Moment Model Reduction for Kinetic Equation. <i>SIAM Journal on Applied Mathematics</i> , 2015 , 75, 2001-2023	1.8	28
23	Solving electrical impedance tomography with deep learning. <i>Journal of Computational Physics</i> , 2020 , 404, 109119	4.1	28
22	Model Reduction of Kinetic Equations by Operator Projection. <i>Journal of Statistical Physics</i> , 2016 , 162, 457-486	1.5	23
21	On hyperbolicity of 13-moment system. <i>Kinetic and Related Models</i> , 2014 , 7, 415-432	2.4	20
20	Dimension-Reduced Hyperbolic Moment Method for the Boltzmann Equation with BGK-Type Collision. <i>Communications in Computational Physics</i> , 2014 , 15, 1368-1406	2.4	14
19	Quantum hydrodynamic model by moment closure of Wigner equation. <i>Journal of Mathematical Physics</i> , 2012 , 53, 103503	1.2	14
18	Fast algorithms for integral formulations of steady-state radiative transfer equation. <i>Journal of Computational Physics</i> , 2019 , 380, 191-211	4.1	13
17	BCR-Net: A neural network based on the nonstandard wavelet form. <i>Journal of Computational Physics</i> , 2019 , 384, 1-15	4.1	13
16	A Multiscale Neural Network Based on Hierarchical Matrices. <i>Multiscale Modeling and Simulation</i> , 2019 , 17, 1189-1213	1.8	12
15	A multiscale neural network based on hierarchical nested bases. <i>Research in Mathematical Sciences</i> , 2019 , 6, 1	1.5	10
14	An Entropic Fourier Method for the Boltzmann Equation. <i>SIAM Journal of Scientific Computing</i> , 2018 , 40, A2858-A2882	2.6	10
13	Meta-learning pseudo-differential operators with deep neural networks. <i>Journal of Computational Physics</i> , 2020 , 408, 109309	4.1	9
12	Accelerating the Convergence of the Moment Method for the Boltzmann Equation Using Filters. <i>Journal of Scientific Computing</i> , 2020 , 84, 1	2.3	8
11	Globally hyperbolic moment system by generalized Hermite expansion. <i>Scientia Sinica Mathematica</i> , 2015 , 45, 1635-1676	2.5	8
10	Linear Stability of Hyperbolic Moment Models for Boltzmann Equation. <i>Numerical Mathematics</i> , 2017 , 10, 255-277	1.5	7

9	13-Moment System with Global Hyperbolicity for Quantum Gas. <i>Journal of Statistical Physics</i> , 2017 , 167, 1280-1302	1.5	6
8	A nonlinear moment model for radiative transfer equation in slab geometry. <i>Journal of Computational Physics</i> , 2020 , 404, 109128	4.1	6
7	A Nonlinear Hyperbolic Model for Radiative Transfer Equation in Slab Geometry. <i>SIAM Journal on Applied Mathematics</i> , 2020 , 80, 2388-2419	1.8	5
6	Filtered Hyperbolic Moment Method for the Vlasov Equation. <i>Journal of Scientific Computing</i> , 2019 , 79, 969-991	2.3	5
5	Quantum hydrodynamic model of density functional theory. <i>Journal of Mathematical Chemistry</i> , 2013 , 51, 1747-1771	2.1	4
4	Burnett spectral method for the spatially homogeneous Boltzmann equation. <i>Computers and Fluids</i> , 2020 , 200, 104456	2.8	3
3	Resolving Knudsen layer by high-order moment expansion. <i>Continuum Mechanics and Thermodynamics</i> , 2019 , 31, 1313-1337	3.5	1
2	Multilevel Fine-Tuning: Closing Generalization Gaps in Approximation of Solution Maps under a Limited Budget for Training Data. <i>Multiscale Modeling and Simulation</i> , 2021 , 19, 344-373	1.8	1
1	Hyperbolic Model Reduction for Kinetic Equations. <i>SEMA SIMAI Springer Series</i> , 2022 , 137-157	0.2	