Florian Schneider

List of Publications by Year
in descending order

18 papers	**161** citations	1307594 **7** h-index	1125743 **13** g-index
18 all docs	**18** docs citations	**18** times ranked	**58** citing authors

#	Article	IF	Citations
1	A hyperbolicity-preserving stochastic Galerkin approximation for uncertain hyperbolic systems of equations. Journal of Computational Physics, 2018, 375, 80-98.	3.8	26
2	Higher Order Mixed-Moment Approximations for the Fokker--Planck Equation in One Space Dimension. SIAM Journal on Applied Mathematics, 2014, 74, 1087-1114.	1.8	20
3	A realizability-preserving discontinuous Galerkin scheme for entropy-based moment closures for linear kinetic equations in one space dimension. Journal of Computational Physics, 2015, 295, 665-684.	3.8	20
4	A realizability-preserving high-order kinetic scheme using WENO reconstruction for entropy-based moment closures of linear kinetic equations in slab geometry. Kinetic and Related Models, 2015, 9, 193-215.	0.9	16
5	A hyperbolicity-preserving discontinuous stochastic Galerkin scheme for uncertain hyperbolic systems of equations. Journal of Computational and Applied Mathematics, 2020, 370, 112602.	2.0	13
6	Kershaw closures for linear transport equations in slab geometry I: Model derivation. Journal of Computational Physics, 2016, 322, 905-919.	3.8	12
7	Approximate models for stochastic dynamic systems with velocities on the sphere and associated Fokker--Planck equations. Kinetic and Related Models, 2014, 7, 509-529.	0.9	11
8	Partial-moment minimum-entropy models for kinetic chemotaxis equations in one and two dimensions. Journal of Computational and Applied Mathematics, 2016, 306, 300-315.	2.0	8
9	Kershaw closures for linear transport equations in slab geometry II: High-order realizability-preserving discontinuous-Galerkin schemes. Journal of Computational Physics, 2016, 322, 920-935.	3.8	6
10	A comparative study of limiting strategies in discontinuous Galerkin schemes for the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml113" display="inline" overflow="scroll" altimg="si1.gif"><mml:msub><mml:mrow><mml:mi>M</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:mr model of radiation transport. Journal of Computational and Applied Mathematics, 2018, 342, 399-418.	2.0	6
11	First-order quarter-and mixed-moment realizability theory and Kershaw closures for a Fokker-Planck equation in two space dimensions. Kinetic and Related Models, 2017, 10, 1127-1161.	0.9	6
12	Numerical Methods for Mean-Field and Moment Models for Pedestrian Flow. Modeling and Simulation in Science, Engineering and Technology, 2018, , 167-209.	0.6	5
13	Weighted essentially non-oscillatory stochastic Galerkin approximation for hyperbolic conservation laws. Journal of Computational Physics, 2020, 419, 109663.	3.8	5
14	First-order continuous- and discontinuous-Galerkin moment models for a linear kinetic equation: Model derivation and realizability theory. Journal of Computational Physics, 2020, 416, 109547.	3.8	3
15	Hyperbolicityâ€preserving stochastic Galerkin method for hyperbolic systems with uncertainties. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800160.	0.2	2
16	A numerical comparison of the method of moments for the population balance equation. Mathematics and Computers in Simulation, 2019, 165, 26-55.	4.4	1
17	Kinetic and Moment Models for Cell Motion in Fiber Structures. Modeling and Simulation in Science, Engineering and Technology, 2019, , 1-38.	0.6	1
18	First-order continuous- and discontinuous-Galerkin moment models for a linear kinetic equation: Realizability-preserving splitting scheme and numerical analysis. Journal of Computational Physics, 2022, 456, 111040.	3.8	0