Florian Schneider

List of Publications by Year in descending order

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

#	Article	IF	CITATIONS
1	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	O
2	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
3	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
4	Weighted essentially non-oscillatory stochastic Galerkin approximation for hyperbolic conservation laws. Journal of Computational Physics, 2020, 419, 109663.	3.8	5
5	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
6	Kinetic and Moment Models for Cell Motion in Fiber Structures. Modeling and Simulation in Science, Engineering and Technology, 2019, , 1-38.	0.6	1
7	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
8	Hyperbolicityâ€preserving stochastic Galerkin method for hyperbolic systems with uncertainties. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800160.	0.2	2
9	A hyperbolicity-preserving stochastic Galerkin approximation for uncertain hyperbolic systems of equations. Journal of Computational Physics, 2018, 375, 80-98.	3.8	26
10	A comparative study of limiting strategies in discontinuous Galerkin schemes for the <mml:math altimg="si1.gif" display="inline" id="mml113" overflow="scroll" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>M</mml:mi></mml:mrow><mml:mrow><mml:mn>1<td>:mn><td>nl:mrow></td></td></mml:mn></mml:mrow></mml:msub></mml:math>	:mn> <td>nl:mrow></td>	nl:mrow>
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	Kershaw closures for linear transport equations in slab geometry I: Model derivation. Journal of Computational Physics, 2016, 322, 905-919.	3.8	12
13	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
14	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
15	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
16	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
17	Higher Order Mixed-Moment Approximations for the FokkerPlanck Equation in One Space Dimension. SIAM Journal on Applied Mathematics, 2014, 74, 1087-1114.	1.8	20
18	Approximate models for stochastic dynamic systems with velocities on the sphere and associated FokkerPlanck equations. Kinetic and Related Models, 2014, 7, 509-529.	0.9	11