M Hossein Gorji

List of Publications by Year
in descending order

25	532	759233 12	642732 23
papers	citations	h-index	g-index

28	28	28	187
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Entropic Fokker-Planck kinetic model. Journal of Computational Physics, 2021, 430, 110034.	3.8	11
2	Dynamic modelling to identify mitigation strategies for the COVID-19 pandemic. Swiss Medical Weekly, 2021, 151, w20487.	1.6	6
3	Fokker-Planck-Poisson kinetics: multi-phase flow beyond equilibrium. Journal of Fluid Mechanics, 2021, 920, .	3.4	5
4	Coupling kinetic and continuum using data-driven maximum entropy distribution. Journal of Computational Physics, 2021, 444, 110542.	3.8	9
5	Smart investment of virus RNA testing resources to enhance Covid-19 mitigation. PLoS ONE, 2021, 16, e0259018.	2.5	3
6	Gaussian Process Regression for Maximum Entropy Distribution. Journal of Computational Physics, 2020, 418, 109644.	3.8	9
7	Controlling the bias error of Fokker-Planck methods for rarefied gas dynamics simulations. Physics of Fluids, 2019, 31, 062005.	4.0	10
8	Particle number control for direct simulation Monte-Carlo methodology using kernel estimates. Physics of Fluids, 2019, 31, 062008.	4.0	6
9	Accurate particle time integration for solving Vlasov-Fokker-Planck equations with specified electromagnetic fields. Journal of Computational Physics, 2019, 387, 430-445.	3.8	3
10	Comparative Study Between Cubic and Ellipsoidal Fokkerâ€“Planck Kinetic Models. AIAA Journal, 2019, 57, 2524-2533.	2.6	14
11	Treatment of long-range interactions arising in the Enskogâ€“Vlasov description of dense fluids. Journal of Computational Physics, 2019, 378, 129-142.	3.8	14
12	Assessment of the cubic Fokkerâ€“Planckâ€“DSMC hybrid method for hypersonic rarefied flows past a cylinder. Computers and Fluids, 2018, 168, 1-13.	2.5	29
13	Adaptive particleâ€“cell algorithm for Fokkerâ€“Planck based rarefied gas flow simulations. Computer Physics Communications, 2017, 213, 1-8.	7.5	28
14	Influence of the gas-surface interaction model on time-dependent rarefied gas simulations. Vacuum, 2016, 128, 244-251.	3.5	5
15	A Fokker-Planck model of hard sphere gases based on H-theorem. AIP Conference Proceedings, 2016, , .	0.4	6
16	Fokkerâ€“Planckâ€“DSMC algorithm for simulations of rarefied gas flows. Journal of Computational Physics, 2015, 287, 110-129.	3.8	63
17	Variance reduction for Fokkerâ€“Planck based particle Monte Carlo schemes. Journal of Computational Physics, 2015, 295, 644-664.	3.8	14
18	A gas-surface interaction kernel for diatomic rarefied gas flows based on the Cercignani-Lampis-Lord model. Physics of Fluids, 2014, 26, .	4.0	18

#	Article	IF	Citations
19	An efficient particle Fokkerâ€“Planck algorithm for rarefied gas flows. Journal of Computational Physics, 2014, 262, 325-343.	3.8	60
20	A Fokkerâ€“Planck based kinetic model for diatomic rarefied gas flows. Physics of Fluids, 2013, 25, .	4.0	49
21	A Device Concept for Demixing of Gas Species Based on Excitation of Internal Energy Modes. , 2013, , .		0
22	A Hybrid Fokker-Planck-DSMC Solution Algorithm for the Whole Range of Knudsen Numbers. , 2013, , .		0
23	A Kinetic Model for Gas Mixtures Based on a Fokker-Planck Equation. Journal of Physics: Conference Series, 2012, 362, 012042.	0.4	23
24	Fokkerâ€“Planck model for computational studies of monatomic rarefied gas flows. Journal of Fluid Mechanics, 2011, 680, 574-601.	3.4	103
25	A Physiologically Relevant, Simple Outflow Boundary Model for Truncated Vasculature. Annals of Biomedical Engineering, 2011, 39, 1470-1481.	2.5	23