

# Vinay Kumar Gupta

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/226159/publications.pdf>

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14  
papers

123  
citations

1306789

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1281420

11  
g-index

14  
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14  
docs citations

14  
times ranked

66  
citing authors

#	ARTICLE	IF	CITATIONS
1	Automated Boltzmann collision integrals for moment equations. AIP Conference Proceedings, 2012, , .	0.3	19
2	Higher order moment equations for rarefied gas mixtures. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20140754.	1.0	19
3	Comparison of relaxation phenomena in binary gas-mixtures of Maxwell molecules and hard spheres. Computers and Mathematics With Applications, 2015, 70, 73-88.	1.4	15
4	Regularized moment equations for binary gas mixtures: Derivation and linear analysis. Physics of Fluids, 2016, 28, 042003.	1.6	15
5	Higher-order moment theories for dilute granular gases of smooth hard spheres. Journal of Fluid Mechanics, 2018, 836, 451-501.	1.4	14
6	Coupled constitutive relations: a second law based higher-order closure for hydrodynamics. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2018, 474, 20180323.	1.0	13
7	Density waves and the effect of wall roughness in granular Poiseuille flow: Simulation and linear stability. European Physical Journal: Special Topics, 2009, 179, 69-90.	1.2	10
8	-theorem and boundary conditions for the linear R26 equations: application to flow past an evaporating droplet. Journal of Fluid Mechanics, 2021, 924, .	1.4	6
9	Reprint of: Comparison of relaxation phenomena in binary gas-mixtures of Maxwell molecules and hard spheres. Computers and Mathematics With Applications, 2016, 72, 271-287.	1.4	5
10	Moment theories for a -dimensional dilute granular gas of Maxwell molecules. Journal of Fluid Mechanics, 2020, 888, .	1.4	4
11	Shear-banding instability in arbitrarily inelastic granular shear flows. Physical Review E, 2019, 100, 032903.	0.8	2
12	Grad-type fourteen-moment theory for dilute granular gases. , 2017, 1, 133-143.		1
13	Heat Transfer in Binary Gas Mixtures Confined in a Lid-Driven Square Cavity. Procedia Engineering, 2015, 127, 10-17.	1.2	0
14	Heat flux in binary gas mixtures confined between two parallel plates via moment equations. AIP Conference Proceedings, 2019, , .	0.3	0