

# Vinay Kumar Gupta

## List of Publications by Year in Descending Order

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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.

10  
papers

78  
citations

6  
h-index

8  
g-index

14  
ext. papers

111  
ext. citations

3  
avg, IF

2.59  
L-index

#	Paper	IF	Citations
10	Shear-banding instability in arbitrarily inelastic granular shear flows. <i>Physical Review E</i> , <b>2019</b> , 100, 032903	3.4	0
9	Higher-order moment theories for dilute granular gases of smooth hard spheres. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 836, 451-501	3.7	8
8	Coupled constitutive relations: a second law based higher-order closure for hydrodynamics. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2018</b> , 474, 20180323	2.4	5
7	Reprint of: Comparison of relaxation phenomena in binary gas-mixtures of Maxwell molecules and hard spheres. <i>Computers and Mathematics With Applications</i> , <b>2016</b> , 72, 271-287	2.7	2
6	Regularized moment equations for binary gas mixtures: Derivation and linear analysis. <i>Physics of Fluids</i> , <b>2016</b> , 28, 042003	4.4	13
5	Comparison of relaxation phenomena in binary gas-mixtures of Maxwell molecules and hard spheres. <i>Computers and Mathematics With Applications</i> , <b>2015</b> , 70, 73-88	2.7	11
4	Heat Transfer in Binary Gas Mixtures Confined in a Lid-Driven Square Cavity. <i>Procedia Engineering</i> , <b>2015</b> , 127, 10-17		
3	Higher order moment equations for rarefied gas mixtures. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2015</b> , 471, 20140754	2.4	16
2	Automated Boltzmann collision integrals for moment equations <b>2012</b> ,		13
1	Density waves and the effect of wall roughness in granular Poiseuille flow: Simulation and linear stability. <i>European Physical Journal: Special Topics</i> , <b>2009</b> , 179, 69-90	2.3	9