

Vinay Kumar Gupta

List of Publications by Citations

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10
papers

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111
ext. citations

3
avg, IF

2.59
L-index

| # | Paper | IF | Citations |
|----|---|-----|-----------|
| 10 | Higher order moment equations for rarefied gas mixtures. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015 , 471, 20140754 | 2.4 | 16 |
| 9 | Automated Boltzmann collision integrals for moment equations 2012 , | | 13 |
| 8 | Regularized moment equations for binary gas mixtures: Derivation and linear analysis. <i>Physics of Fluids</i> , 2016 , 28, 042003 | 4.4 | 13 |
| 7 | Comparison of relaxation phenomena in binary gas-mixtures of Maxwell molecules and hard spheres. <i>Computers and Mathematics With Applications</i> , 2015 , 70, 73-88 | 2.7 | 11 |
| 6 | Density waves and the effect of wall roughness in granular Poiseuille flow: Simulation and linear stability. <i>European Physical Journal: Special Topics</i> , 2009 , 179, 69-90 | 2.3 | 9 |
| 5 | Higher-order moment theories for dilute granular gases of smooth hard spheres. <i>Journal of Fluid Mechanics</i> , 2018 , 836, 451-501 | 3.7 | 8 |
| 4 | 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> , 2018 , 474, 20180323 | 2.4 | 5 |
| 3 | Reprint of: Comparison of relaxation phenomena in binary gas-mixtures of Maxwell molecules and hard spheres. <i>Computers and Mathematics With Applications</i> , 2016 , 72, 271-287 | 2.7 | 2 |
| 2 | Shear-banding instability in arbitrarily inelastic granular shear flows. <i>Physical Review E</i> , 2019 , 100, 032903 | 1.4 | 0 |
| 1 | Heat Transfer in Binary Gas Mixtures Confined in a Lid-Driven Square Cavity. <i>Procedia Engineering</i> , 2015 , 127, 10-17 | | |