Amnaya P Awasthi

List of Publications by Year in descending order

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AMNAVA D AMASTHI

#	Article	IF	CITATIONS
1	Shockwaves in Jammed Ductile Granular Media. Journal of Applied Mechanics, Transactions ASME, 2022, 89, .	1.1	2
2	Intrinsic hardness of covalent crystals: a unified multiparametric framework. Journal of Materials Science, 2021, 56, 11711-11722.	1.7	2
3	Shock response of single-crystal boron carbide along orientations with the highest and lowest elastic moduli. Physical Review B, 2021, 104, .	1.1	6
4	Intrinsic hardness of boron carbide: Influence of polymorphism and stoichiometry. Journal of the American Ceramic Society, 2020, 103, 7127-7134.	1.9	5
5	Shocked ceramics melt: An atomistic analysis of thermodynamic behavior of boron carbide. Physical Review B, 2020, 101, .	1.1	30
6	Deformation behavior and amorphization in icosahedral boron-rich ceramics. Progress in Materials Science, 2020, 112, 100664.	16.0	34
7	High-pressure deformation and amorphization in boron carbide. Journal of Applied Physics, 2019, 125, .	1.1	39
8	Propagation and dissipation of elasto-plastic stress waves in two dimensional ordered granular media. Journal of the Mechanics and Physics of Solids, 2018, 120, 117-131.	2.3	18
9	Effects of interface roughness on cohesive strength of self-assembled monolayers. Applied Surface Science, 2017, 397, 192-198.	3.1	2
10	Multi-scale model of effects of roughness on the cohesive strength of self-assembled monolayers. International Journal of Fracture, 2017, 208, 131-143.	1.1	0
11	Evaluating boron-carbide constituents with simulated Raman spectra. Scripta Materialia, 2017, 138, 32-34.	2.6	23
12	Nanoscale mechanical tailoring of interfaces using self-assembled monolayers. Mechanics of Materials, 2016, 98, 71-80.	1.7	6
13	In search of amorphization-resistant boron carbide. Scripta Materialia, 2016, 123, 158-162.	2.6	64
14	Crystallographic and spectral equivalence of boron-carbide polymorphs. Scripta Materialia, 2016, 122, 82-85.	2.6	22
15	Impact response of granular layers. Granular Matter, 2015, 17, 21-31.	1.1	9
16	High-amplitude elastic solitary wave propagation in 1-D granular chains with preconditioned beads: Experiments and theoretical analysis. Journal of the Mechanics and Physics of Solids, 2014, 72, 161-173.	2.3	15
17	Plane wave propagation in 2D and 3D monodisperse periodic granular media. Granular Matter, 2014, 16, 141-150.	1.1	28
18	Family of plane solitary waves in dimer granular crystals. Physical Review E, 2014, 90, 032209.	0.8	10

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#	Article	IF	CITATIONS
19	Characterization of wave propagation in elastic and elastoplastic granular chains. Physical Review E, 2014, 89, 012204.	0.8	38
20	Wave propagation in 2D random granular media. Physica D: Nonlinear Phenomena, 2014, 266, 42-48.	1.3	14
21	Wave propagation in elasto-plastic granular systems. Granular Matter, 2013, 15, 747-758.	1.1	41
22	Wave propagation in random granular chains. Physical Review E, 2012, 85, 031308.	0.8	26
23	Effects of weak disorder on stress-wave anisotropy in centered square nonlinear granular crystals. Physical Review E, 2012, 86, 031305.	0.8	22
24	Propagation of solitary waves in 2D granular media: A numerical study. Mechanics of Materials, 2012, 54, 100-112.	1.7	43
25	Modeling of graphene–polymer interfacial mechanical behavior using molecular dynamics. Modelling and Simulation in Materials Science and Engineering, 2009, 17, 015002.	0.8	195