

Pulkit Garg

List of Publications by Year in descending order

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12
papers

222
citations

1162889

8
h-index

1199470

12
g-index

13
all docs

13
docs citations

13
times ranked

201
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of hydrogen on the ideal shear strength in metals and its implications on plasticity: A first-principles study. International Journal of Hydrogen Energy, 2021, 46, 25726-25737.	3.8	9
2	Segregation competition and complexion coexistence within a polycrystalline grain boundary network. Acta Materialia, 2021, 218, 117213.	3.8	18
3	Possible role of grain-boundary and dislocation structure for the magnetic-flux trapping behavior of niobium: A first-principles study. Physical Review B, 2020, 101, .	1.1	7
4	Oxygen effects on crystal plasticity of Titanium: A multiscale calibration and validation framework. Acta Materialia, 2019, 176, 19-32.	3.8	19
5	Revealing the atomistic nature of dislocation-precipitate interactions in Al-Cu alloys. Journal of Alloys and Compounds, 2019, 797, 325-333.	2.8	33
6	Uncovering the influence of metallic and non-metallic impurities on the ideal shear strength and ductility of Ti: An ab-initio study. Journal of Alloys and Compounds, 2019, 788, 413-421.	2.8	14
7	First-Principles Investigation of the Effect of Solutes on the Ideal Shear Resistance and Electronic Properties of Magnesium. Minerals, Metals and Materials Series, 2019, , 231-237.	0.3	0
8	Thermo-mechanical strengthening mechanisms in a stable nanocrystalline binary alloy “ A combined experimental and modeling study. Materials and Design, 2019, 163, 107551.	3.3	23
9	Revealing the role of nitrogen on hydride nucleation and stability in pure niobium using first-principles calculations. Superconductor Science and Technology, 2018, 31, 115007.	1.8	19
10	Anomalous mechanical behavior of nanocrystalline binary alloys under extreme conditions. Nature Communications, 2018, 9, 2699.	5.8	50
11	Effect of solutes on ideal shear resistance and electronic properties of magnesium: A first-principles study. Acta Materialia, 2018, 153, 327-335.	3.8	21
12	Solute Effect on Strength and Formability of Mg: A First-Principle Study. Minerals, Metals and Materials Series, 2017, , 483-489.	0.3	3