Pradeep Gupta

List of Publications by Citations

19 papers	121 citations	6 h-index	10 g-index
19 ext. papers	162 ext. citations	2 avg, IF	3.14 L-index

#	Paper	IF	Citations
19	Molecular dynamics based cohesive zone modeling of Al (metal)Cu50Zr50 (metallic glass) interfacial mechanical behavior and investigation of dissipative mechanisms. *Materials and Design*, **2016**, 105, 41-50	8.1	44
18	Sintering of AlSi10Mg particles in direct metal laser sintering process: A molecular dynamics simulation study. *Materials Chemistry and Physics*, **2019**, 236, 121803	4.4	21
17	Large-Scale Molecular Dynamics Simulation Studies on Deformation of Ni Nanowires: Surface Profile, Defects and Stacking Fault Width Analysis. *Journal of Materials Engineering and Performance*, **2019**, 28, 63-78	1.6	10
16	Dislocation and Structural Studies at MetalMetallic Glass Interface at Low Temperature. *Journal of Materials Engineering and Performance*, **2017**, 26, 5694-5704	1.6	9
15	Strain Rate and Temperature Effects on the Strength and Dissipative Mechanisms in Al-Cu 50 Zr 50 Interface Model: Molecular Dynamics Simulation Study. *Procedia Engineering*, **2017**, 184, 631-636		7
14	Single-crystal AlCu50Zr50 metallic glass cold welds: tensile and creep behaviour. *Molecular Simulation*, **2019**, 45, 1549-1562	2	6
13	The effect of nano-void on deformation behaviour of Al-Cu intermetallic thin film compounds. *Metallurgical Research and Technology*, **2015**, 112, 505	0.9	6
12	Effect of loading direction and defects on the strength and fracture behavior of biphenylene based graphene monolayer. *Materials Chemistry and Physics*, **2017**, 202, 127-135	4.4	5
11	Nanoindentation studies of Zr50Cu50metallic glass thin film nanocomposites via molecular dynamics simulations. *Metallurgical Research and Technology*, **2016**, 113, 602	0.9	4
10	Tensile-compression loading and pre-strain effects on the evolution of stacking fault tetrahedra, dislocation density, and free volume in crystal-amorphous thin film interface: A large-scale molecular dynamics study. *Journal of Non-Crystalline Solids*, **2019**, 514, 25-34	3.9	3
9	Superplastic Pd50Pt50 monocrystalline bimetallic alloy nanowire: a molecular dynamics simulation study. *Metallurgical Research and Technology*, **2017**, 114, 302	0.9	2
8	High Velocity and Temperature Effects on the Bending Behavior of Nickel Nanowire: A Large-Scale Molecular Dynamics Simulation Study. *Materials Performance and Characterization*, **2020**, 9, 20190095	0.5	2
7	High Temperature Mechanical Behavior of Aluminum- Cu50Zr50Metallic Glass Interface. *IOP Conference Series: Materials Science and Engineering*, **2016**, 115, 012024	0.4	1
6	Nano-Indentation of Aluminium Reinforced Metallic Glass Composites: A Molecular Dynamics Study. *IOP Conference Series: Materials Science and Engineering*, **2018**, 338, 012036	0.4	1
5	Temperature and Loading Rate Effect on the Load-Displacement Response of Metal-Metallic Glass (Al-Cu50Zr50) Layered Structure during Nano-Indentation. *Materials Science Forum*, **2020**, 978, 330-336	0.4	0
4	Crack and its interaction with defects in Al coated with CuZr metallic glass thin film: an MD simulation study. *Journal of Molecular Modeling*, **2020**, 26, 82	2	0
3	Cu50Zr50 metallic glass flakes reinforced Al composites: Experimental and molecular dynamics nanoindentation response of matrix, interface, and reinforcement. *Journal of Non-Crystalline Solids*, **2021**, 564, 120837	3.9	0

List of Publications

2	Elevated Temperature Compression Behavior of Al□Cu50Zr50 Nano-laminates. *Transactions of the Indian Institute of Metals*, **2020**, 73, 1579-1585	1.2
1	Deformation Behavior and Fracture of Al-CuZr Nano-Laminates: A Molecular Dynamics Simulation Study. *Lecture Notes in Mechanical Engineering*, **2019**, 99-106	0.4