

Pradeep 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.

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	Cu50Zr50 metallic glass flakes reinforced Al composites: Experimental and molecular dynamics nanoindentation response of matrix, interface, and reinforcement. <i>Journal of Non-Crystalline Solids</i> , 2021 , 564, 120837	3.9	0
18	Temperature and Loading Rate Effect on the Load-Displacement Response of Metal-Metallic Glass (Al-Cu50Zr50) Layered Structure during Nano-Indentation. <i>Materials Science Forum</i> , 2020 , 978, 330-336	0.4	0
17	Crack and its interaction with defects in Al coated with CuZr metallic glass thin film: an MD simulation study. <i>Journal of Molecular Modeling</i> , 2020 , 26, 82	2	0
16	Elevated Temperature Compression Behavior of AlCu50Zr50 Nano-laminates. <i>Transactions of the Indian Institute of Metals</i> , 2020 , 73, 1579-1585	1.2	
15	High Velocity and Temperature Effects on the Bending Behavior of Nickel Nanowire: A Large-Scale Molecular Dynamics Simulation Study. <i>Materials Performance and Characterization</i> , 2020 , 9, 20190095	0.5	2
14	Single-crystal AlCu50Zr50 metallic glass cold welds: tensile and creep behaviour. <i>Molecular Simulation</i> , 2019 , 45, 1549-1562	2	6
13	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. <i>Journal of Non-Crystalline Solids</i> , 2019 , 514, 25-34	3.9	3
12	Sintering of AlSi10Mg particles in direct metal laser sintering process: A molecular dynamics simulation study. <i>Materials Chemistry and Physics</i> , 2019 , 236, 121803	4.4	21
11	Deformation Behavior and Fracture of Al-CuZr Nano-Laminates: A Molecular Dynamics Simulation Study. <i>Lecture Notes in Mechanical Engineering</i> , 2019 , 99-106	0.4	
10	Large-Scale Molecular Dynamics Simulation Studies on Deformation of Ni Nanowires: Surface Profile, Defects and Stacking Fault Width Analysis. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 63-78	1.6	10
9	Nano-Indentation of Aluminium Reinforced Metallic Glass Composites: A Molecular Dynamics Study. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 338, 012036	0.4	1
8	Dislocation and Structural Studies at MetalMetallic Glass Interface at Low Temperature. <i>Journal of Materials Engineering and Performance</i> , 2017 , 26, 5694-5704	1.6	9
7	Superplastic Pd50Pt50 monocrystalline bimetallic alloy nanowire: a molecular dynamics simulation study. <i>Metallurgical Research and Technology</i> , 2017 , 114, 302	0.9	2
6	Effect of loading direction and defects on the strength and fracture behavior of biphenylene based graphene monolayer. <i>Materials Chemistry and Physics</i> , 2017 , 202, 127-135	4.4	5
5	Strain Rate and Temperature Effects on the Strength and Dissipative Mechanisms in Al-Cu 50 Zr 50 Interface Model: Molecular Dynamics Simulation Study. <i>Procedia Engineering</i> , 2017 , 184, 631-636		7
4	High Temperature Mechanical Behavior of Aluminum- Cu50Zr50Metallic Glass Interface. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 115, 012024	0.4	1
3	Nanoindentation studies of Zr50Cu50metallic glass thin film nanocomposites via molecular dynamics simulations. <i>Metallurgical Research and Technology</i> , 2016 , 113, 602	0.9	4

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| 2 | Molecular dynamics based cohesive zone modeling of Al (metal)/Cu ₅₀ Zr ₅₀ (metallic glass) interfacial mechanical behavior and investigation of dissipative mechanisms. <i>Materials and Design</i> , 2016 , 105, 41-50 | 8.1 | 44 |
| 1 | The effect of nano-void on deformation behaviour of Al-Cu intermetallic thin film compounds. <i>Metallurgical Research and Technology</i> , 2015 , 112, 505 | 0.9 | 6 |