

Bharat Bhushan Sharma

List of Publications by Year in descending order

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11
papers

176
citations

1163117

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1281871

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docs citations

11
times ranked

74
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | A review on thermo-mechanical properties of bi-crystalline and polycrystalline 2D nanomaterials. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2020, 45, 134-170. | 12.3 | 31 |
| 2 | Atomistic simulations to study the effect of water molecules on the mechanical behavior of functionalized and non-functionalized boron nitride nanosheets. <i>Computational Materials Science</i> , 2019, 169, 109092. | 3.0 | 22 |
| 3 | Atomistic simulations to study the effect of grain boundaries and hydrogen functionalization on the fracture toughness of bi-crystalline h-BN nanosheets. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 13116-13125. | 2.8 | 21 |
| 4 | Mechanical and fracture behavior of water submerged graphene. <i>Journal of Applied Physics</i> , 2019, 125, 215107. | 2.5 | 21 |
| 5 | Inter-granular fracture toughness of bi-crystalline graphene nanosheets. <i>Diamond and Related Materials</i> , 2020, 102, 107667. | 3.9 | 21 |
| 6 | Mechanical strength of a nanoporous bicrystalline h-BN nanomembrane in a water submerged state. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 20453-20465. | 2.8 | 19 |
| 7 | Mechanical and fracture behaviour of hydroxyl functionalized h-BN nanosheets. <i>Journal of Materials Science</i> , 2020, 55, 3228-3242. | 3.7 | 17 |
| 8 | Defect formation dynamics in dry and water submerged graphene nanosheets. <i>Materials Research Express</i> , 2019, 6, 075063. | 1.6 | 12 |
| 9 | How Grain Boundaries and Interfacial Electrostatic Interactions Modulate Water Desalination via Nanoporous Hexagonal Boron Nitride. <i>Journal of Physical Chemistry B</i> , 2022, 126, 1284-1300. | 2.6 | 7 |
| 10 | Fracture behaviour of pristine and defective form of water submerged h-BN nanosheets. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 035306. | 2.8 | 4 |
| 11 | Fracture Toughness Enhancement of Boron Nitride Nanosheets via Crack Edge Passivation Using Various Radicals. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 111-117. | 0.4 | 1 |