

Chao Gao

List of Publications by Year in descending order

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Version: 2024-02-01

17
papers

303
citations

1040056

9
h-index

1058476

14
g-index

18
all docs

18
docs citations

18
times ranked

396
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Controlling toughness and strength of FDM 3D-printed PLA components through the raster layup. <i>Composites Part B: Engineering</i> , 2020, 180, 107562. | 12.0 | 113 |
| 2 | Mechanical response of common millet (<i>Panicum miliaceum</i>) seeds under quasi-static compression: Experiments and modeling. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 73, 102-113. | 3.1 | 25 |
| 3 | Instability-Induced Pattern Transformation in Soft Metamaterial with Hexagonal Networks for Tunable Wave Propagation. <i>Scientific Reports</i> , 2018, 8, 11834. | 3.3 | 25 |
| 4 | Amplifying Strength, Toughness, and Auxeticity via Wavy Sutural Tessellation in Plant Seedcoats. <i>Advanced Materials</i> , 2018, 30, e1800579. | 21.0 | 23 |
| 5 | Fabrication of Photonic Microbricks via Crack Engineering of Colloidal Crystals. <i>Advanced Functional Materials</i> , 2020, 30, 1908242. | 14.9 | 23 |
| 6 | A crack-free anti-corrosive coating strategy for magnesium implants under deformation. <i>Corrosion Science</i> , 2018, 132, 116-124. | 6.6 | 22 |
| 7 | Mechanical model of bio-inspired composites with sutural tessellation. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 122, 190-204. | 4.8 | 21 |
| 8 | Tuning the wrinkling patterns of an interfacial/coating layer via a regulation interphase. <i>International Journal of Solids and Structures</i> , 2017, 104-105, 92-102. | 2.7 | 18 |
| 9 | Quasi-static compression and compression-fatigue behavior of regular and irregular cellular biomaterials. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 1178-1194. | 3.4 | 13 |
| 10 | Short review of nonplanar fused deposition modeling printing. <i>Material Design and Processing Communications</i> , 2021, 3, e221. | 0.9 | 10 |
| 11 | Short review on architected materials with topological interlocking mechanisms. <i>Material Design and Processing Communications</i> , 2019, 1, e31. | 0.9 | 4 |
| 12 | Prediction of the anisotropic damage evolution of dry common millet (<i>Panicum miliaceum</i>) seed under quasi-static blunt indentation. <i>Engineering Fracture Mechanics</i> , 2019, 214, 112-122. | 4.3 | 2 |
| 13 | Damage Initiation and Evolution of <i>Panicum Miliaceum</i> Seeds Under Compression. , 2017, , . | | 1 |
| 14 | Seedcoat Suture Tessellation: Amplifying Strength, Toughness, and Auxeticity via Wavy Sutural Tessellation in Plant Seedcoats (<i>Adv. Mater.</i> 36/2018). <i>Advanced Materials</i> , 2018, 30, 1870274. | 21.0 | 1 |
| 15 | Photonic Microbricks: Fabrication of Photonic Microbricks via Crack Engineering of Colloidal Crystals (<i>Adv. Funct. Mater.</i> 26/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070172. | 14.9 | 1 |
| 16 | Interlocking mechanism design based on deep-learning methods. <i>Applications in Engineering Science</i> , 2021, 7, 100056. | 0.8 | 1 |
| 17 | Mechanical Behavior of Bio-Inspired Composites with Sutural Tessellation. , 0, , . | | 0 |