

Xiaoyi Liu

List of Publications by Year in descending order

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27
papers

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times ranked

892
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Tunable Poisson's ratio and tension-compression asymmetry of graphene-copper nanolayered composites. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 165303. | 2.8 | 1 |
| 2 | Theoretical analysis of high strength and anti-buckling of three-dimensional carbon honeycombs under shear loading. <i>Composites Part B: Engineering</i> , 2021, 219, 108967. | 12.0 | 6 |
| 3 | Effects of temperature and grain size on deformation of polycrystalline copper-graphene nanolayered composites. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 4741-4748. | 2.8 | 23 |
| 4 | Unusually high flexibility of graphene-Cu nanolayered composites under bending. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 17393-17399. | 2.8 | 9 |
| 5 | Crack propagation in graphene monolayer under tear loading. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 2659-2664. | 2.8 | 5 |
| 6 | Nanomechanics of Graphene and Design of Graphene Composites. Springer Theses, 2019, , . | 0.1 | 5 |
| 7 | Grain size effects on dynamic fracture instability in polycrystalline graphene under tear loading. <i>Journal of Materials Research</i> , 2019, 34, 2209-2217. | 2.6 | 4 |
| 8 | Interfacial anti-fatigue effect in graphene-copper nanolayered composites under cyclic shear loading. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 7875-7884. | 2.8 | 16 |
| 9 | Deformation of high density polyethylene by dynamic equal-channel-angular pressing. <i>RSC Advances</i> , 2018, 8, 22583-22591. | 3.6 | 15 |
| 10 | Competing roles of interfaces and matrix grain size in the deformation and failure of polycrystalline Cu-graphene nanolayered composites under shear loading. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 23694-23701. | 2.8 | 15 |
| 11 | Interfacial effect on deformation and failure of Al/Cu nanolaminates under shear loading. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 335301. | 2.8 | 10 |
| 12 | Super-elasticity and deformation mechanism of three-dimensional pillared graphene network structures. <i>Carbon</i> , 2017, 118, 588-596. | 10.3 | 36 |
| 13 | Elastic-plastic properties of graphene engineered by oxygen functional groups. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 385305. | 2.8 | 6 |
| 14 | Radiation damage in gallium-stabilized δ -plutonium with helium bubbles. <i>Journal of Nuclear Materials</i> , 2017, 484, 7-15. | 2.7 | 11 |
| 15 | Interfacial strengthening and self-healing effect in graphene-copper nanolayered composites under shear deformation. <i>Carbon</i> , 2016, 107, 680-688. | 10.3 | 83 |
| 16 | Transformation between divacancy defects induced by an energy pulse in graphene. <i>Nanotechnology</i> , 2016, 27, 274004. | 2.6 | 6 |
| 17 | Opening the band gap of graphene through silicon doping for the improved performance of graphene/GaAs heterojunction solar cells. <i>Nanoscale</i> , 2016, 8, 226-232. | 5.6 | 92 |
| 18 | Tuning electromechanics of dynamic ripple pattern in graphene monolayer. <i>Carbon</i> , 2016, 98, 510-518. | 10.3 | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Energy Storage: Novel Polygonal Vanadium Oxide Nanoscrolls as Stable Cathode for Lithium Storage (Adv. Funct. Mater. 12/2015). Advanced Functional Materials, 2015, 25, 1766-1766. | 14.9 | 0 |
| 20 | Anomalous twisting strength of tilt grain boundaries in armchair graphene nanoribbons. Physical Chemistry Chemical Physics, 2015, 17, 31911-31916. | 2.8 | 17 |
| 21 | Anisotropic growth of buckling-driven wrinkles in graphene monolayer. Nanotechnology, 2015, 26, 065701. | 2.6 | 23 |
| 22 | Novel Polygonal Vanadium Oxide Nanoscrolls as Stable Cathode for Lithium Storage. Advanced Functional Materials, 2015, 25, 1773-1779. | 14.9 | 54 |
| 23 | Quasi-Two-Dimensional SiC and SiC ₂ : Interaction of Silicon and Carbon at Atomic Thin Lattice Plane. Journal of Physical Chemistry C, 2015, 119, 19772-19779. | 3.1 | 87 |
| 24 | Strengthening metal nanolaminates under shock compression through dual effect of strong and weak graphene interface. Applied Physics Letters, 2014, 104, . | 3.3 | 65 |
| 25 | Anisotropic propagation and upper frequency limitation of terahertz waves in graphene. Applied Physics Letters, 2013, 103, . | 3.3 | 15 |
| 26 | Mesoscopic numerical computation model of air-diffusion electrode of metal/air batteries. Applied Mathematics and Mechanics (English Edition), 2013, 34, 571-576. | 3.6 | 4 |
| 27 | Defecting controllability of bombarding graphene with different energetic atoms via reactive force field model. Journal of Applied Physics, 2013, 114, 054313. | 2.5 | 25 |