

Bin Xu

List of Publications by Year in descending order

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15
papers

339
citations

932766

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996533

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15
all docs

15
docs citations

15
times ranked

541
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomic nonaffinity as a predictor of plasticity in amorphous solids. <i>Physical Review Materials</i> , 2021, 5, .	0.9	13
2	Predicting Shear Transformation Events in Metallic Glasses. <i>Physical Review Letters</i> , 2018, 120, 125503.	2.9	52
3	Sample-size-dependent surface dislocation nucleation in nanoscale crystals. <i>Acta Materialia</i> , 2018, 145, 19-29.	3.8	52
4	Effect of notch depth on the mechanical behavior of Cu50Zr50 metallic glasses revealed by molecular dynamics simulations. <i>Intermetallics</i> , 2018, 93, 303-311.	1.8	8
5	Solid-liquid interfacial free energy and its anisotropy in the Cu-Ni binary system investigated by molecular dynamics simulations. <i>Journal of Alloys and Compounds</i> , 2017, 708, 1073-1080.	2.8	24
6	Strain-dependent activation energy of shear transformation in metallic glasses. <i>Physical Review B</i> , 2017, 95, .	1.1	18
7	Atomistic characterization of solid-liquid interfaces in the Cu-Ni binary alloy system. <i>Computational Materials Science</i> , 2016, 125, 72-81.	1.4	16
8	Size effects in Cu50Zr50 metallic glass films revealed by molecular dynamics simulations. <i>Journal of Alloys and Compounds</i> , 2016, 688, 88-95.	2.8	43
9	Structural, elastic, and vibrational properties of layered titanium dichalcogenides: A van der Waals density functional study. <i>Journal of Chemical Physics</i> , 2012, 137, 224509.	1.2	19
10	Exploring the structure-property relationships of ultrasonic/MRI dual imaging magnetite/PLA microbubbles: magnetite@Cavity versus magnetite@Shell systems. <i>Colloid and Polymer Science</i> , 2012, 290, 1617-1626.	1.0	10
11	Structure and acoustical properties control of magnetite/PLA composite microbubbles. <i>Colloid and Polymer Science</i> , 2012, 290, 63-71.	1.0	6
12	“Two-in-One” Fabrication of Fe ₃ O ₄ /MePEG-PLA Composite Nanocapsules as a Potential Ultrasonic/MRI Dual Contrast Agent. <i>Langmuir</i> , 2011, 27, 12134-12142.	1.6	60
13	Influence of experimental parameters and the copolymer structure on the size control of nanospheres in double emulsion method. <i>Journal of Polymer Research</i> , 2011, 18, 131-137.	1.2	8
14	Monte Carlo simulation of B2-L21 ordering transitions in Au-Cu-Al alloy systems. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2011, 16, 186-189.	0.5	1
15	Facile synthesis of magnetic microcapsules by synchronous formation of magnetite nanoparticles. <i>Colloid and Polymer Science</i> , 2010, 288, 353-357.	1.0	9