

Bin Zhang

List of Publications by Year in descending order

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33
papers

615
citations

840585

11
h-index

580701

25
g-index

33
all docs

33
docs citations

33
times ranked

595
citing authors

#	ARTICLE	IF	CITATIONS
1	Nano-projectiles impact on graphene/SiC laminates. Applied Surface Science, 2022, 591, 153113.	3.1	9
2	Ballistic resistance of twisted bilayer graphene with interlayer sp ³ -bonding on SiC substrate. Computational Materials Science, 2022, 213, 111610.	1.4	4
3	Twisted bilayer graphene/h-BN under impact of a nano-projectile. Applied Surface Science, 2021, 538, 148030.	3.1	22
4	Nanofracture of stretched hexagonal boron nitride strip with an edge crack. Engineering Fracture Mechanics, 2021, 242, 107485.	2.0	4
5	Rotational Friction Correlated with Moiré Patterns in Strained Bilayer Graphene: Implications for Nanoscale Lubrication. ACS Applied Nano Materials, 2021, 4, 8880-8887.	2.4	8
6	Crack kinking in h-BN monolayer predicted by energy dissipation. Journal of Applied Physics, 2020, 128, .	1.1	1
7	Ballistic response of hexagonal boron nitride monolayer under impact of a nano-projectile. Mechanics of Materials, 2019, 133, 1-12.	1.7	11
8	Fast crack propagation correlated with crack tip stress in 2D hexagonal atomic lattices. International Journal of Fracture, 2018, 210, 17-27.	1.1	2
9	Fast crack kinking manipulated by atomic hoop stress in monolayer hexagonal boron nitride strip. Computational Materials Science, 2018, 154, 1-7.	1.4	6
10	Instability of rapidly accelerating rupture fronts in nanostrips of monolayer hexagonal boron nitride. Engineering Fracture Mechanics, 2018, 200, 115-124.	2.0	4
11	Theoretical consideration of a microcontinuum model of graphene. AIP Advances, 2016, 6, .	0.6	3
12	Finite element modelling of the instability in rapid fracture of graphene. Engineering Fracture Mechanics, 2015, 141, 111-119.	2.0	19
13	Interference effect on friction behavior of asperities on single crystal copper. Tribology International, 2015, 81, 169-178.	3.0	9
14	Instability of supersonic crack in graphene. Physica B: Condensed Matter, 2014, 434, 145-148.	1.3	21
15	Structural properties of a hypothetical H ₆ -Boron with three-dimensional all sp ² network. Solid State Communications, 2014, 177, 50-53.	0.9	1
16	A micromorphic model for monolayer hexagonal boron nitride with determined constitutive constants by phonon dispersions. Physica B: Condensed Matter, 2014, 451, 48-52.	1.3	3
17	Structural and mechanical properties of H ₆ -carbon. Computational Materials Science, 2014, 82, 540-543.	1.4	9
18	Separation strain rate dependence on the failure of polymer adhesion with mobile promoters. International Journal of Solids and Structures, 2013, 50, 4349-4354.	1.3	3

#	ARTICLE	IF	CITATIONS
19	Polymer-polymer adhesion with mobile promoters: Connector length dependence. <i>Polymer</i> , 2013, 54, 1567-1572.	1.8	5
20	Layered graphene structure of a hexagonal carbon. <i>Physica B: Condensed Matter</i> , 2013, 418, 73-75.	1.3	8
21	Polymer-polymer adhesion with mobile promoters: Connector areal density dependence. <i>AIP Advances</i> , 2013, 3, .	0.6	3
22	Nanofracture in graphene under complex mechanical stresses. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	89
23	On the Structure of a New Superhard Hexagonal Carbon Phase. , 2010, , .		0
24	Electronic structure and mechanical properties of osmium borides, carbides and nitrides from first principles. <i>Solid State Communications</i> , 2008, 146, 450-453.	0.9	45
25	Mechanical properties and structural identifications of cubic Ti_2O_3 . <i>Physical Review B</i> , 2007, 76, .	1.1	47
26	Mechanical and electronic properties of superhard ReB_2 . <i>Physical Review B</i> , 2007, 76, .	1.1	122
27	Structural phase transition and failure of nanographite sheets under high pressure: a molecular dynamics study. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 346224.	0.7	6
28	Three-dimensional stress state around quarter-elliptical corner cracks in elastic plates subjected to uniform tension loading. <i>Engineering Fracture Mechanics</i> , 2007, 74, 386-398.	2.0	28
29	Phase Transitions of Carbon Materials under High Pressure. , 2007, , 239-249.		1
30	Advances in Three-Dimensional Fracture Mechanics. <i>Key Engineering Materials</i> , 2006, 312, 27-34.	0.4	3
31	Tz constraints of semi-elliptical surface cracks in elastic plates subjected to uniform tension loading. <i>International Journal of Fracture</i> , 2005, 131, 173-187.	1.1	29
32	Cracking diamond anvil cells by compressed nanographite sheets near the contact edge. <i>Applied Physics Letters</i> , 2005, 87, 051907.	1.5	14
33	Formation of sp ³ Bonding in Nanoindented Carbon Nanotubes and Graphite. <i>Physical Review Letters</i> , 2004, 93, 245502.	2.9	76