

Bin Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

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	Mechanical and electronic properties of superhard ReB_2 . Physical Review B, 2007, 76, .	1.1	122
2	Nanofracture in graphene under complex mechanical stresses. Applied Physics Letters, 2012, 101, .	1.5	89
3	Formation of sp ³ Bonding in Nanoindented Carbon Nanotubes and Graphite. Physical Review Letters, 2004, 93, 245502.	2.9	76
4	Mechanical properties and structural identifications of cubic Ti_2O_3 . Physical Review B, 2008, 77, .	1.1	47
5	Electronic structure and mechanical properties of osmium borides, carbides and nitrides from first principles. Solid State Communications, 2008, 146, 450-453.	0.9	45
6	Tz constraints of semi-elliptical surface cracks in elastic plates subjected to uniform tension loading. International Journal of Fracture, 2005, 131, 173-187.	1.1	29
7	Three-dimensional stress state around quarter-elliptical corner cracks in elastic plates subjected to uniform tension loading. Engineering Fracture Mechanics, 2007, 74, 386-398.	2.0	28
8	Twisted bilayer graphene/h-BN under impact of a nano-projectile. Applied Surface Science, 2021, 538, 148030.	3.1	22
9	Instability of supersonic crack in graphene. Physica B: Condensed Matter, 2014, 434, 145-148.	1.3	21
10	Finite element modelling of the instability in rapid fracture of graphene. Engineering Fracture Mechanics, 2015, 141, 111-119.	2.0	19
11	Cracking diamond anvil cells by compressed nanographite sheets near the contact edge. Applied Physics Letters, 2005, 87, 051907.	1.5	14
12	Ballistic response of hexagonal boron nitride monolayer under impact of a nano-projectile. Mechanics of Materials, 2019, 133, 1-12.	1.7	11
13	Structural and mechanical properties of H ₆ -carbon. Computational Materials Science, 2014, 82, 540-543.	1.4	9
14	Interference effect on friction behavior of asperities on single crystal copper. Tribology International, 2015, 81, 169-178.	3.0	9
15	Nano-projectiles impact on graphene/SiC laminates. Applied Surface Science, 2022, 591, 153113.	3.1	9
16	Layered graphene structure of a hexagonal carbon. Physica B: Condensed Matter, 2013, 418, 73-75.	1.3	8
17	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
18	Structural phase transition and failure of nanographite sheets under high pressure: a molecular dynamics study. Journal of Physics Condensed Matter, 2007, 19, 346224.	0.7	6

#	ARTICLE	IF	CITATIONS
19	Fast crack kinking manipulated by atomic hoop stress in monolayer hexagonal boron nitride strip. Computational Materials Science, 2018, 154, 1-7.	1.4	6
20	Polymer-polymer adhesion with mobile promoters: Connector length dependence. Polymer, 2013, 54, 1567-1572.	1.8	5
21	Instability of rapidly accelerating rupture fronts in nanostrips of monolayer hexagonal boron nitride. Engineering Fracture Mechanics, 2018, 200, 115-124.	2.0	4
22	Nanofracture of stretched hexagonal boron nitride strip with an edge crack. Engineering Fracture Mechanics, 2021, 242, 107485.	2.0	4
23	Ballistic resistance of twisted bilayer graphene with interlayer sp ³ -bonding on SiC substrate. Computational Materials Science, 2022, 213, 111610.	1.4	4
24	Advances in Three-Dimensional Fracture Mechanics. Key Engineering Materials, 2006, 312, 27-34.	0.4	3
25	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
26	Polymer-polymer adhesion with mobile promoters: Connector areal density dependence. AIP Advances, 2013, 3, .	0.6	3
27	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
28	Theoretical consideration of a microcontinuum model of graphene. AIP Advances, 2016, 6, .	0.6	3
29	Fast crack propagation correlated with crack tip stress in 2D hexagonal atomic lattices. International Journal of Fracture, 2018, 210, 17-27.	1.1	2
30	Structural properties of a hypothetical H6-Boron with three-dimensional all sp ² network. Solid State Communications, 2014, 177, 50-53.	0.9	1
31	Crack kinking in h-BN monolayer predicted by energy dissipation. Journal of Applied Physics, 2020, 128, .	1.1	1
32	Phase Transitions of Carbon Materials under High Pressure. , 2007, , 239-249.		1
33	On the Structure of a New Superhard Hexagonal Carbon Phase. , 2010, , .		0