

Xiaoju Guo

List of Publications by Year in descending order

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26
papers

1,065
citations

471509

17
h-index

552781

26
g-index

26
all docs

26
docs citations

26
times ranked

883
citing authors

#	ARTICLE	IF	CITATIONS
1	Hardness of covalent compounds: Roles of metallic component and d valence electrons. Journal of Applied Physics, 2008, 104, .	2.5	166
2	Dynamics of Glass Relaxation at Room Temperature. Physical Review Letters, 2013, 110, 265901.	7.8	133
3	First-principles study of electronic structure and optical properties of heterodiamondBC ₂ N. Physical Review B, 2006, 73, .	3.2	113
4	Predicting hardness of dense C ₃ N ₄ polymorphs. Applied Physics Letters, 2006, 88, 101906.	3.3	67
5	Most likely phase of superhard BC_2N calculations. Physical Review B, 2007, 76, .	3.2	62
6	Unified approach for determining the enthalpic fictive temperature of glasses with arbitrary thermal history. Journal of Non-Crystalline Solids, 2011, 357, 3230-3236.	3.1	49
7	Prediction of a sandwichlike conducting superhard boron carbide: First-principles calculations. Physical Review B, 2006, 73, .	3.2	48
8	First-principles study of wurtzite BC_2N . Physical Review B, 2007, 76, .	3.2	43
9	Chalcopyrite polymorph for superhard BC ₂ N. Applied Physics Letters, 2006, 89, 151911.	3.3	41
10	Structure and mechanical properties of osmium carbide: First-principles calculations. Applied Physics Letters, 2008, 93, .	3.3	38
11	Theoretical hardness of the cubic BC ₂ N. Diamond and Related Materials, 2007, 16, 526-530.	3.9	36
12	Body-centered superhard BC_2N phases from first principles. Physical Review B, 2007, 76, .	3.2	32
13	A tetragonal phase of superhard BC ₂ N. Journal of Applied Physics, 2009, 105, .	2.5	32
14	Viscous flow of medieval cathedral glass. Journal of the American Ceramic Society, 2018, 101, 5-11.	3.8	32
15	Linking Equilibrium and Nonequilibrium Dynamics in Glass-Forming Systems. Journal of Physical Chemistry B, 2016, 120, 3226-3231.	2.6	25
16	Unbinding force of chemical bonds and tensile strength in strong crystals. Journal of Physics Condensed Matter, 2009, 21, 485405.	1.8	22
17	Heterogeneous enthalpy relaxation in glasses far from equilibrium. Chemical Physics Letters, 2010, 494, 37-40.	2.6	18
18	On the frequency correction in temperature-modulated differential scanning calorimetry of the glass transition. Journal of Non-Crystalline Solids, 2012, 358, 1710-1715.	3.1	17

#	ARTICLE	IF	CITATIONS
19	Ground-state properties and hardness of high density BC ₆ N phases originating from diamond structure. <i>Journal of Applied Physics</i> , 2007, 101, 083505.	2.5	15
20	Are the dynamics of a glass embedded in its elastic properties?. <i>Journal of Chemical Physics</i> , 2013, 138, 12A501.	3.0	15
21	Structural relaxation in annealed hyperquenched basaltic glasses: Insights from calorimetry. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 1356-1361.	3.1	14
22	Synthesis of Bâ€“Câ€“N nanocrystalline particle by mechanical alloying and spark plasma sintering. <i>Journal of Materials Science</i> , 2006, 41, 8352-8355.	3.7	12
23	First-Principles Investigation of Dense B ₄ C ₃ . <i>Journal of Physical Chemistry C</i> , 2007, 111, 13679-13683.	3.1	11
24	Non-conservation of the total alkali concentration in ion-exchanged glass. <i>Journal of Non-Crystalline Solids</i> , 2014, 387, 71-75.	3.1	11
25	Thermal history and its implications: A case study for ion exchange. <i>Journal of the American Ceramic Society</i> , 2020, 103, 3971-3977.	3.8	9
26	Effect of the initial stage of annealing on modeling of enthalpy relaxation in a hyperquenched glass. <i>Journal of Non-Crystalline Solids</i> , 2013, 378, 121-125.	3.1	4