Yuelei Bai

List of Publications by Year in descending order

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34	1,600	279487	377514
papers	citations	23 h-index	34 g-index

35	35	35	1466
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Kinetic Monte Carlo simulation of ZrO₂ coating deposited by EBâ€PVD. Journal of the American Ceramic Society, 2022, 105, 830-841.	1.9	4
2	Density-functional-theory predictions of mechanical behaviour and thermal properties as well as experimental hardness of the Ga-bilayer Mo2Ga2C. Journal of Advanced Ceramics, 2022, 11, 273-282.	8.9	26
3	Ruthenium on Alkaliâ€Exfoliated Ti₃(Al_{0.8}Sn_{0.2})C₂ MAX Phase Catalyses Reduction of 4â€Nitroaniline with Ammonia Borane. ChemCatChem, 2021, 13, 3470-3478.	1.8	6
4	Experimental and DFT insights into elastic, magnetic, electrical, and thermodynamic properties of MABâ€phase Fe₂AlB₂. Journal of the American Ceramic Society, 2020, 103, 5837-5851.	1.9	22
5	Friction and wear behavior of Fe2AlB2 nanolaminates against GCr15 steel counterpart. Ceramics International, 2020, 46, 19912-19918.	2.3	11
6	Phase stability and weak metallic bonding within ternaryâ€layered borides CrAlB, Cr₂AlB₂, Cr₃AlB₄, and Cr₄AlB₆. Journal of the American Ceramic Society, 2019, 102, 3715-3727.	1.9	55
7	High-temperature mechanical properties and thermal shock behavior of ternary-layered MAB phases Fe2AlB2. International Journal of Refractory Metals and Hard Materials, 2019, 80, 151-160.	1.7	45
8	Density Functional Theory Study of M_n₊₁AX_nPhases: A Review. Critical Reviews in Solid State and Materials Sciences, 2019, 44, 56-107.	6.8	46
9	Improving the electrochemical properties of MXene Ti3C2 multilayer for Li-ion batteries by vacuum calcination. Electrochimica Acta, 2018, 265, 140-150.	2.6	99
10	Effect of Ti3AlC2 precursor on the electrochemical properties of the resulting MXene Ti3C2 for Li-ion batteries. Ceramics International, 2018, 44, 11591-11596.	2.3	58
11	Enhanced reversible Li-ion storage in Si@Ti3C2 MXene nanocomposite. Electrochemistry Communications, 2018, 97, 16-21.	2.3	66
12	Further surface modification by carbon coating for in-situ growth of Fe3O4 nanoparticles on MXene Ti3C2 multilayers for advanced Li-ion storage. Electrochimica Acta, 2018, 289, 228-237.	2.6	51
13	Density functional theory insights into ternary layered boride MoAlB. Acta Materialia, 2017, 132, 69-81.	3.8	113
14	Oxidation behavior of high-purity nonstoichiometric Ti₂AlC powders in flowing air. Journal of Materials Research, 2017, 32, 2747-2754.	1.2	11
15	Rapid synthesis, electrical, and mechanical properties of polycrystalline Fe₂AlB₂ bulk from elemental powders. Journal of the American Ceramic Society, 2017, 100, 4407-4411.	1.9	59
16	Thermal shock behavior of Ti₂AlC from 200Â°C to 1400Â°C. Journal of the American Ceramic Society, 2017, 100, 4190-4198.	1.9	22
17	<scp>DFT</scp> Predictions of Crystal Structure, Electronic Structure, Compressibility, and Elastic Properties of Hfâ€“Alâ€“C Carbides. Journal of the American Ceramic Society, 2016, 99, 3449-3457.	1.9	22
18	Dependence of elastic and optical properties on surface terminated groups in two-dimensional MXene monolayers: a first-principles study. RSC Advances, 2016, 6, 35731-35739.	1.7	224

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19	Lattice dynamics of Alâ€containing MAXâ€phase carbides: a firstâ€principle study. Journal of Raman Spectroscopy, 2015, 46, 784-794.	1.2	21
20	Growth morphology and microstructural characterization of nonstoichiometric Ti2AlC bulk synthesized by self-propagating high temperature combustion synthesis with pseudo hot isostatic pressing. International Journal of Refractory Metals and Hard Materials, 2014, 45, 58-63.	1.7	17
21	Effect of transition metal (M) and Mâ€“C slabs on equilibrium properties of Al-containing MAX carbides: An ab initio study. Computational Materials Science, 2014, 91, 28-37.	1.4	24
22	High temperature physical and mechanical properties of large-scale Ti2AlC bulk synthesized by self-propagating high temperature combustion synthesis with pseudo hot isostatic pressing. Journal of the European Ceramic Society, 2013, 33, 2435-2445.	2.8	56
23	An ab initio study on compressibility of Al-containing MAX-phase carbides. Journal of Applied Physics, 2013, 114, 173709.	1.1	22
24	Microstructures, Electrical, Thermal, and Mechanical Properties of Bulk <scp><scp>Ti</scp>₂<scp>AlC</scp></scp> Synthesized by Selfâ€Propagating Highâ€Temperature Combustion Synthesis with Pseudo Hot Isostatic Pressing. Journal of the American Ceramic Society, 2012, 95, 358-364.	1.9	78
25	Phase Stability, Electronic Structure, Compressibility, Elastic and Optical Properties of a Newly Discovered <scp>Ti₃SnC₂</scp>: A Firstâ€Principle Study. Journal of the American Ceramic Society, 2011, 94, 3907-3914.	1.9	27
26	Polymorphism of newly discovered Ti4GaC3: A first-principles study. Acta Materialia, 2011, 59, 5523-5533.	3.8	39
27	Ab initio study of the bonding and elastic properties of Ti2CdC. Solid State Sciences, 2010, 12, 144-147.	1.5	31
28	Chemical bonding and elastic properties of Ti3AC2 phases (A=Si, Ge, and Sn): A first-principle study. Solid State Sciences, 2010, 12, 1220-1225.	1.5	57
29	In situ synthesis and mechanical properties of bulk Ti3SiC2/TiC composites by SHS/PHIP. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 4554-4559.	2.6	20
30	First-principles investigation of Nâ€“Ag co-doping effect on electronic properties in p-type ZnO. Chinese Physics B, 2010, 19, 047101.	0.7	27
31	General trends in the structural, electronic and elastic properties of the M3AlC2 phases (M =) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.4	86
32	Rapid synthesis of bulk Ti₂AlC by self-propagating high temperature combustion synthesis with a pseudoâ€“hot isostatic pressing process. Journal of Materials Research, 2009, 24, 2528-2535.	1.2	76
33	Ab initio calculations for properties of MAX phases Ti2InC, Zr2InC, and Hf2InC. Solid State Communications, 2009, 149, 564-566.	0.9	49
34	An ab initio study of the electronic structure and elastic properties of the newly discovered ternary carbide. Solid State Communications, 2009, 149, 2156-2159.	0.9	30