Guo-Ping Bei

List of Publications by Year
in descending order

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34 papers	854 citations	361045 20 h-index	476904 29 g-index
35 all docs	35 docs citations	35 times ranked	673 citing authors

#	Article	IF	Citations
1	Powder metallurgy processing and compressive properties of Ti3AlC2/Al composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 530, 168-173.	2.6	68
2	Synthesis, Characterization, and Intrinsic Hardness of Layered Nanolaminate <scp><scp>Ti</scp>₃<scp>AlC</scp>₂</scp> and <scp><scp>Ti</scp>₃<scp>Al</scp>_{0.8}<scp>Sn</scp>_{0.2}<scp>C</scp>₂</scp> Solid Solution. Journal of the American Ceramic Society, 2012, 95, 102-107.	1.9	62
3	Synthesis, Microstructure, and Mechanical Properties of Ti₃Sn_(1â^'x)Al_xC₂ MAX Phase Solid Solutions. International Journal of Applied Ceramic Technology, 2010, 7, 719-729.	1.1	59
4	Oxidation Behavior of <scp>MAX</scp> Phase <scp><scp>Ti</scp></scp>₂<scp><scp>Al</scp></scp>_(1â^'x)<scp><scp>Sn</scp></scp><sub>x Solid Solution. Journal of the American Ceramic Society, 2013, 96, 1359-1362.	1.9	58
5	Synthesis and microstructure of Ti3AlC2 by mechanically activated sintering of elemental powders. Ceramics International, 2007, 33, 169-173.	2.3	51
6	Ultra-high temperature ablation behavior of MoAlB ceramics under an oxyacetylene flame. Journal of the European Ceramic Society, 2019, 39, 2010-2017.	2.8	48
7	Crack healing induced electrical and mechanical properties recovery in a Ti 2 SnC ceramic. Journal of the European Ceramic Society, 2016, 36, 25-32.	2.8	42
8	Sintering and properties of mechanical alloyed Ti3AlC2-Cu composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 685, 154-158.	2.6	35
9	Toughening Mechanisms in Nanolayered MAX Phase Ceramicsâ€”A Review. Materials, 2017, 10, 366.	1.3	31
10	Formation of Ti3AlC2by mechanically induced self-propagating reaction in Tiâ€“Alâ€“C system at room temperature. Materials Science and Technology, 2006, 22, 667-672.	0.8	28
11	Bimodal Microstructure and Reaction Mechanism of Ti2SnC Synthesized by a High-Temperature Reaction Using Ti/Sn/C and Ti/Sn/TiC Powder Compacts. Journal of the American Ceramic Society, 2006, 89, 3617-3623.	1.9	28
12	Compressive Behavior of <scp><scp>Ti</scp></scp>₃<scp><scp>AlC</scp></scp>₂ and <scp><scp>Ti</scp></scp>₃<scp><scp>Al</scp></scp>_{0.8}<scp><scp>Sn</scp></scp>_{0.2}<scp> Phases at Room Temperature. Journal of the American Ceramic Society, 2013, 96, 567-576.	1.9	27
13	Crack Healing in Ti₂Al_{0.5}Sn_{0.5}Câ€“Al₂O₃ Composites. Journal of the American Ceramic Society, 2015, 98, 1604-1610.	1.9	25
14	Synthesis of Ti2SnC from Ti/Sn/TiC powder mixtures by pressureless sintering technique. Materials Letters, 2006, 60, 3530-3532.	1.3	24
15	Preparation and mechanical properties of in situ TiCxâ€“Ni (Si, Ti) alloy composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 616, 214-218.	2.6	24
16	Autonomous highâ€temperature healing of surface cracks in Al₂O₃ containing Ti₂AlC particles. Journal of the American Ceramic Society, 2018, 101, 5684-5693.	1.9	24
17	Synthesis of Ti2SnC at low-temperature using mechanically activated sintering process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 457, 282-286.	2.6	23
18	Synthesis of Al4SiC4 powders via carbothermic reduction: Reaction and grain growth mechanisms. Journal of Advanced Ceramics, 2017, 6, 351-359.	8.9	22

#	Article	IF	Citations
19	Synthesis, crystal structure, microstructure and mechanical properties of (Ti1-Zr)3SiC2 MAX phase solid solutions. Ceramics International, 2019, 45, 1400-1408.	2.3	21
20	Synthesis and deformation microstructure of Ti3SiAl0.2C1.8 solid solution. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 441, 202-205.	2.6	20
21	Preparation and mechanical properties of TiC x â€“(NiCu) 3 Alâ€“CuNi 2 Tiâ€“Ni hybrid composites by reactive pressureless sintering pre-alloyed Cu/Ti 3 AlC 2 and Ni as precursor. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 670, 351-356.	2.6	20
22	Pressure-enforced plasticity in MAX phases: from single grain to polycrystal investigation. Philosophical Magazine, 2013, 93, 1784-1801.	0.7	19
23	Adsorption and Reaction of Water on the AlN(0001) Surface from First Principles. Journal of Physical Chemistry C, 2019, 123, 5460-5468.	1.5	17
24	The origin of driving force for the formation of Sn whiskers at room temperature. Journal of Materials Research, 2007, 22, 3226-3232.	1.2	16
25	A Highâ€Temperature Neutron Diffraction and Firstâ€Principles Study of <scp><scp>Ti</scp></scp>₃<scp><scp>AlC</scp></scp>₂ and <scp><scp>Ti</scp></scp>₃(<scp><scp>Al</scp></scp>_{0.8}<scp><scp>Sn</scp></scp>_{0.2})<scp><scp>C</scp></scp>₂. Journal of the American Ceramic Society, 2014, 97, 570-576.	1.9	14
26	Point contact abrasive wear behavior of MAX phase materials. Ceramics International, 2020, 46, 1722-1729.	2.3	14
27	Formation Mechanisms of Ti3 SnC2 Nanolaminate Carbide Using Fe as Additive. Journal of the American Ceramic Society, 2013, 96, 3239-3242.	1.9	12
28	Reaction mechanism for synthesis of Ti2SnC. Materials Research Bulletin, 2007, 42, 1995-1998.	2.7	7
29	Influence of Ti₃SiC₂ Fiber Coating on Interface and Matrix Cracking in an SiC Fiberâ€Reinforced Polymerâ€Derived Ceramic. Advanced Engineering Materials, 2015, 17, 1142-1148.	1.6	5
30	Ab initio calculation of the evolution of [SiN_{4â€“}_nO_n] tetrahedron during Î²â€Si₃N₄(0001) surface oxidation. Journal of the American Ceramic Society, 2020, 103, 2808-2816.	1.9	4
31	Controlling the oriented growth of Ti2SnC grains with carbon fiber as a reactive template in the Tiâ€“Snâ€“C system. Materials Research Bulletin, 2009, 44, 966-969.	2.7	2
32	Boron doping induced thermal conductivity enhancement of water-based 3C-Si(B)C nanofluids. Nanotechnology, 2018, 29, 355702.	1.3	2
33	Lowâ€temperature oxidationâ€induced crack healing in Ti 2 Al 0.5 Sn 0.5 Câ€“Al 2 O 3 composites. International Journal of Applied Ceramic Technology, 2019, 16, 1744-1751.	1.1	2
34	Mechanically Activated Low-Temperature Synthesis of Ti₂SnC. Key Engineering Materials, 2007, 336-338, 955-957.	0.4	1