Behzad Nayebi

List of Publications by Year
in descending order

42 papers	2,017 citations	279798 23 h-index	265206 42 g-index
42 all docs	42 docs citations	42 times ranked	812 citing authors

#	Article	IF	Citations
1	Reactive spark plasma sintering of ZrB2-TiC composites: Role of nano-sized carbon black additive. Synthesis and Sintering, 2022, 2, 67-77.	1.6	5
2	Nanostructural and nanoindentation characterization of ZrB2 ceramics toughened with in-situ synthesized ZrC. International Journal of Refractory Metals and Hard Materials, 2021, 94, 105391.	3.8	15
3	A novel ZrB2-based composite manufactured with Ti3AlC2 additive. Ceramics International, 2021, 47, 817-827.	4.8	8
4	Toughening of ZrB2-based composites with in-situ synthesized ZrC from ZrO2 and graphite precursors. Journal of Science: Advanced Materials and Devices, 2021, 6, 42-48.	3.1	8
5	Deformation, Cracking and Fracture Behavior of Dynamically-Formed Oxide Layers on Molten Metals. Metals and Materials International, 2021, 27, 1701-1712.	3.4	8
6	Spark plasma sintering of TiB2-based ceramics with Ti3AlC2. Ceramics International, 2021, 47, 11929-11934.	4.8	16
7	Formation of Alâ€“Al2O3 coreâ€“shell nanosphere chains during electron beam melting of Î³-TiAl. Intermetallics, 2021, 136, 107261.	3.9	3
8	Prussian blue-based nanostructured materials: Catalytic applications for environmental remediation and energy conversion. Molecular Catalysis, 2021, 514, 111835.	2.0	24
9	A nanostructural approach to the interfacial phenomena in spark plasma sintered TiB2 ceramics with vanadium and graphite additives. Composites Part B: Engineering, 2021, 222, 109069.	12.0	10
10	Solid solution formation during spark plasma sintering of ZrB2â€“TiCâ€“graphite composites. Ceramics International, 2020, 46, 2923-2930.	4.8	37
11	Phase transformation in spark plasma sintered ZrB2â€“Vâ€“C composites at different temperatures. Ceramics International, 2020, 46, 9415-9420.	4.8	11
12	Characterization of ZrB2â€“TiC composites reinforced with short carbon fibers. Ceramics International, 2020, 46, 23155-23164.	4.8	38
13	Effect of B4C content on sintering behavior, microstructure and mechanical properties of Ti-based composites fabricated via spark plasma sintering. Materials Chemistry and Physics, 2020, 251, 123087.	4.0	44
14	Mechanochemical characteristics of Ca-added Mg-based alloys: A multimodality approach. Materials Characterization, 2020, 167, 110475.	4.4	12
15	Effect of Zr and C co-addition on the characteristics of ZrB2-based ceramics: Role of spark plasma sintering temperature. Ceramics International, 2020, 46, 24975-24985.	4.8	23
16	Densification and toughening mechanisms in spark plasma sintered ZrB2-based composites with zirconium and graphite additives. Ceramics International, 2020, 46, 13685-13694.	4.8	60
17	Role of carbon morphology on the synthesizability of ZrC during spark plasma sintering of ZrB2â€“Zrâ€“C composites. Journal of the Taiwan Institute of Chemical Engineers, 2020, 117, 252-256.	5.3	5
18	Boron nitride-palladium nanostructured catalyst: efficient reduction of nitrobenzene derivatives in water. Nano Express, 2020, 1, 030012.	2.4	21

#	Article	IF	Citations
19	Influence of vanadium content on the characteristics of spark plasma sintered ZrB2â€“SiCâ€“V composites. Journal of Alloys and Compounds, 2019, 805, 725-732.	5.5	81
20	Nanoindentation and nanostructural characterization of ZrB2â€“SiC composite doped with graphite nano-flakes. Composites Part B: Engineering, 2019, 175, 107153.	12.0	84
21	Kinetics of crystallization in 13.2Li2O-67.6SiO2-14.49Al2O3-3.3TiO2-0.4BaO-0.97ZnO glass ceramic powder: Part I: A model-free vs. model-fitting approach. Ceramics International, 2019, 45, 8856-8865.	4.8	7
22	Investigation of hot pressed ZrB2â€“SiCâ€“carbon black nanocomposite by scanning and transmission electron microscopy. Ceramics International, 2019, 45, 16759-16764.	4.8	66
23	Spark plasma sintering of TiN ceramics codoped with SiC and CNT. Ceramics International, 2019, 45, 3207-3216.	4.8	99
24	Microstructureâ€“mechanical properties correlation in spark plasma sintered Tiâ€“4.8Âwt.% TiB2 composites. Materials Chemistry and Physics, 2019, 223, 789-796.	4.0	76
25	Effects of carbon additives on the properties of ZrB2â€“based composites: A review. Ceramics International, 2018, 44, 7334-7348.	4.8	177
26	Densification improvement of spark plasma sintered TiB2-based composites with micron-, submicron- and nano-sized SiC particulates. Ceramics International, 2018, 44, 11431-11437.	4.8	100
27	Characteristics of dynamically-formed surface oxide layers on molten zincâ€“aluminum alloys: A multimodality approach. Thin Solid Films, 2018, 667, 34-39.	1.8	16
28	Nanostructural approach to the thickening behavior and oxidation of calcium-stabilized aluminum foams. Materials Chemistry and Physics, 2018, 220, 351-359.	4.0	12
29	TEM characterization of spark plasma sintered ZrB2â€“SiCâ€“graphene nanocomposite. Ceramics International, 2018, 44, 15269-15273.	4.8	103
30	A novel ZrB2â€“VB2â€“ZrC composite fabricated by reactive spark plasma sintering. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 731, 131-139.	5.6	82
31	Sintering behavior of ZrB2â€“SiC composites doped with Si3N4: A fractographical approach. Ceramics International, 2017, 43, 9699-9708.	4.8	85
32	Structural and Magnetic Properties of Co1â^'x Mg x Fe2 O 4 Nanoparticles Synthesized by Microwave-Assisted Combustion Method. Journal of Superconductivity and Novel Magnetism, 2017, 30, 1801-1805.	1.8	5
33	Interfacial phenomena and formation of nano-particles in porous ZrB2â€“40 vol% B4C UHTC. Ceramics International, 2016, 42, 17009-17015.	4.8	68
34	Reactive hot pressing of ZrB2-based composites with changes in ZrO2/SiC ratio and sintering conditions. Part II: Mechanical behavior. Ceramics International, 2016, 42, 2724-2733.	4.8	71
35	Characteristics of dynamically formed oxide films in aluminumâ€“calcium foamable alloys. Journal of Alloys and Compounds, 2016, 655, 433-441.	5.5	20
36	Characteristics of multi-walled carbon nanotube toughened ZrB 2 â€“SiC ceramic composite prepared by hot pressing. Ceramics International, 2016, 42, 1950-1958.	4.8	131

#	Article	IF	Citations
37	Temperature dependence of microstructure evolution during hot pressing of ZrB2â€“30 vol.% SiC composites. International Journal of Refractory Metals and Hard Materials, 2016, 54, 7-13.	3.8	90
38	Fractographical characterization of hot pressed and pressureless sintered SiAlON-doped ZrB2â€“SiC composites. Materials Characterization, 2015, 102, 137-145.	4.4	74
39	Fractographical characterization of hot pressed and pressureless sintered AlN-doped ZrB2â€“SiC composites. Materials Characterization, 2015, 110, 77-85.	4.4	76
40	Taguchi analysis on the effect of hot pressing parameters on density and hardness of zirconium diboride. International Journal of Refractory Metals and Hard Materials, 2015, 50, 313-320.	3.8	59
41	A fractographical approach to the sintering process in porous ZrB2â€“B4C binary composites. Ceramics International, 2015, 41, 379-387.	4.8	67
42	Characteristics of dynamically formed oxide films on molten aluminium. International Journal of Cast Metals Research, 2012, 25, 270-276.	1.0	20