Abbas Sabahi Namini

List of Publications by Year
in descending order

84 papers	3,380 citations	101543 36 h-index	155660 55 g-index
86 all docs	86 docs citations	86 times ranked	1159 citing authors

#	Article	IF	Citations
1	Effects of spark plasma sintering temperature on densification, hardness and thermal conductivity of titanium carbide. Ceramics International, 2018, 44, 14541-14546.	4.8	122
2	Microstructural development and mechanical properties of hot pressed SiC reinforced TiB2 based composite. International Journal of Refractory Metals and Hard Materials, 2015, 51, 169-179.	3.8	120
3	Effect of TiB 2 content on the characteristics of spark plasma sintered Tiâ€“TiB w composites. Advanced Powder Technology, 2017, 28, 1564-1572.	4.1	111
4	Effect of TiB2 addition on the elevated temperature tribological behavior of spark plasma sintered Ti matrix composite. Composites Part B: Engineering, 2019, 172, 271-280.	12.0	107
5	Microstructure and thermomechanical characteristics of spark plasma sintered TiC ceramics doped with nano-sized WC. Ceramics International, 2019, 45, 2153-2160.	4.8	107
6	Characterization of hot pressed SiC whisker reinforced TiB 2 based composites. International Journal of Refractory Metals and Hard Materials, 2016, 61, 84-90.	3.8	96
7	Influence of silicon carbide addition on the microstructural development of hot pressed zirconium and titanium diborides. Ceramics International, 2016, 42, 5375-5381.	4.8	95
8	Effects of sintering temperature on microstructure and mechanical properties of spark plasma sintered titanium. Materials Chemistry and Physics, 2018, 203, 266-273.	4.0	95
9	Spark plasma sintering of TiCâ€“SiCw ceramics. Ceramics International, 2019, 45, 19808-19821.	4.8	88
10	Reinforcing effects of SiC whiskers and carbon nanoparticles in spark plasma sintered ZrB2 matrix composites. Ceramics International, 2018, 44, 19932-19938.	4.8	85
11	Hybrid Ti matrix composites with TiB2 and TiC compounds. Materials Today Communications, 2019, 20, 100576.	1.9	76
12	Microstructureâ€“mechanical properties correlation in spark plasma sintered Tiâ€“4.8Âwt.% TiB2 composites. Materials Chemistry and Physics, 2019, 223, 789-796.	4.0	76
13	Aluminum nitride as an alternative ceramic for fabrication of microchannel heat exchangers: A numerical study. Ceramics International, 2020, 46, 11647-11657.	4.8	75
14	Characterization of triplet Tiâ€“TiBâ€“TiC composites: Comparison of in-situ formation and ex-situ addition of TiC. Ceramics International, 2020, 46, 11726-11734.	4.8	67
15	Electron microscopy investigation of spark plasma sintered ZrO2 added ZrB2â€“SiC composite. Ceramics International, 2020, 46, 19646-19649.	4.8	66
16	Strengthening of TiC ceramics sintered by spark plasma via nano-graphite addition. Ceramics International, 2020, 46, 12400-12408.	4.8	66
17	Spark plasma sintering of ZrB2-based composites co-reinforced with SiC whiskers and pulverized carbon fibers. International Journal of Refractory Metals and Hard Materials, 2019, 83, 104989.	3.8	65
18	Nano-diamond reinforced ZrB2â€“SiC composites. Ceramics International, 2020, 46, 10172-10179.	4.8	62

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19	Triplet carbide composites of TiC, WC, and SiC. Ceramics International, 2020, 46, 9070-9078.	4.8	60
20	Role of nano-WC addition on microstructural, mechanical and thermal characteristics of TiCâ€“SiCw composites. International Journal of Refractory Metals and Hard Materials, 2020, 90, 105248.	3.8	59
21	In situ preparation of g-C3N4 nanosheet/FeOCl: Achievement and promoted photocatalytic nitrogen fixation activity. Journal of Colloid and Interface Science, 2021, 587, 538-549.	9.4	59
22	Influence of SiAlON addition on the microstructure development of hot-pressed ZrB2â€“SiC composites. Ceramics International, 2020, 46, 19209-19216.	4.8	58
23	Role of graphite nano-flakes on the characteristics of ZrB2-based composites reinforced with SiC whiskers. Diamond and Related Materials, 2020, 105, 107786.	3.9	57
24	Influence of Sintering Temperature on Microstructure and Mechanical Properties of Tiâ€“Moâ€“B4C Composites. Metals and Materials International, 2021, 27, 1092-1102.	3.4	57
25	Densification behavior and microstructure development in TiB2 ceramics doped with h-BN. Ceramics International, 2020, 46, 18970-18975.	4.8	56
26	On the simulation of spark plasma sintered TiB2 ultra high temperature ceramics: A numerical approach. Ceramics International, 2020, 46, 14787-14795.	4.8	56
27	Influence of TiB2 content on the properties of TiCâ€“SiCw composites. Ceramics International, 2020, 46, 7403-7412.	4.8	54
28	Novel pâ€“n Heterojunction Nanocomposite: TiO₂ QDs/ZnBi₂O₄ Photocatalyst with Considerably Enhanced Photocatalytic Activity under Visible-Light Irradiation. Journal of Physical Chemistry C, 2020, 124, 27519-27528.	3.1	54
29	Strengthening of novel TiCâ€“AlN ceramic with in-situ synthesized Ti3Al intermetallic compound. Ceramics International, 2020, 46, 14105-14113.	4.8	53
30	Combined role of SiC particles and SiC whiskers on the characteristics of spark plasma sintered ZrB2 ceramics. Ceramics International, 2020, 46, 5773-5778.	4.8	52
31	Role of nano-diamond addition on the characteristics of spark plasma sintered TiC ceramics. Diamond and Related Materials, 2020, 106, 107828.	3.9	49
32	Characterization of spark plasma sintered TiC ceramics reinforced with graphene nano-platelets. Ceramics International, 2020, 46, 18742-18749.	4.8	48
33	Microstructural and mechanical characterization of spark plasma sintered TiC ceramics with TiN additive. Ceramics International, 2020, 46, 18924-18932.	4.8	45
34	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
35	Enhanced fracture toughness of ZrB2â€“SiCw ceramics with graphene nano-platelets. Ceramics International, 2020, 46, 24906-24915.	4.8	43
36	A microstructural approach to the chemical reactions during the spark plasma sintering of novel TiCâ€“BN ceramics. Ceramics International, 2020, 46, 15982-15990.	4.8	42

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37	Nanoindentational and conventional mechanical properties of spark plasma sintered Tiâ€“Mo alloys. Journal of Materials Research and Technology, 2020, 9, 10647-10658.	5.8	36
38	Characteristics of quadruplet Tiâ€“Moâ€“TiB2â€“TiC composites prepared by spark plasma sintering. Ceramics International, 2020, 46, 20885-20895.	4.8	36
39	Synthesis, characterization, and photocatalytic performance of Ag/AgFeO2 decorated on g-C3N4-nanosheet under the visible light irradiation. Journal of the Taiwan Institute of Chemical Engineers, 2020, 115, 279-292.	5.3	35
40	Beneficial role of carbon black on the properties of TiC ceramics. Ceramics International, 2020, 46, 23544-23555.	4.8	35
41	Electrical and dielectric properties of Al/(PVP: Zn-TeO2)/p-Si heterojunction structures using currentâ€“voltage (Iâ€“V) and impedance-frequency (Zâ€“f) measurements. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	33
42	Enhanced densification of spark plasma sintered TiB2 ceramics with low content AlN additive. Ceramics International, 2020, 46, 22127-22133.	4.8	33
43	Role of co-addition of BN and SiC on microstructure of TiB2-based composites densified by SPS method. Ceramics International, 2020, 46, 25341-25350.	4.8	32
44	High-impressive separation of photoinduced charge carriers on step-scheme ZnO/ZnSnO3/Carbon dots heterojunction with efficient activity in photocatalytic NH3 production. Journal of the Taiwan Institute of Chemical Engineers, 2021, 118, 140-151.	5.3	32
45	Electron microscopy characterization of porous ZrB2â€“SiCâ€“AlN composites prepared by pressureless sintering. Ceramics International, 2020, 46, 25415-25423.	4.8	30
46	Physical, mechanical and microstructural characterization of TiCâ€“ZrN ceramics. Ceramics International, 2020, 46, 22154-22163.	4.8	30
47	Influence of SPS temperature on the properties of TiCâ€“SiCw composites. Ceramics International, 2020, 46, 11735-11742.	4.8	30
48	Synthesis and characterization of novel ZnO/NiCr2O4 nanocomposite for water purification by degradation of tetracycline and phenol under visible light irradiation. Materials Research Bulletin, 2021, 139, 111247.	5.2	30
49	Role of hot-pressing temperature on densification and microstructure of ZrB2â€“SiC ultrahigh temperature ceramics. International Journal of Refractory Metals and Hard Materials, 2020, 93, 105355.	3.8	26
50	A novel TiC-based composite co-strengthened with AlN particulates and graphene nano-platelets. International Journal of Refractory Metals and Hard Materials, 2020, 92, 105331.	3.8	25
51	Microstructural, mechanical and friction properties of nano-graphite and h-BN added TiC-based composites. Ceramics International, 2020, 46, 28969-28979.	4.8	22
52	Electron microscopy study of ZrB2â€“SiCâ€“AlN composites: Hot-pressing vs. pressureless sintering. Ceramics International, 2020, 46, 29334-29338.	4.8	22
53	A novel spark plasma sintered TiCâ€“ZrNâ€“C composite with enhanced flexural strength. Ceramics International, 2020, 46, 29022-29032.	4.8	19
54	Combined role of SiC whiskers and graphene nano-platelets on the microstructure of spark plasma sintered ZrB2 ceramics. Ceramics International, 2021, 47, 12459-12466.	4.8	19

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55	The effect of cadmium impurities in the (PVPâ€"TeO2) interlayer in Al/p-Si (MS) Schottky barrier diodes (SBDs): Exploring its electrophysical parameters. Physica B: Condensed Matter, 2021, 604, 412617.	2.7	18
56	Characterization of spark plasma sintered TiCâ€"Si3N4 ceramics. International Journal of Refractory Metals and Hard Materials, 2021, 95, 105444.	3.8	18
57	Cerium oxide nanoparticles as a new neuroprotective agent to promote functional recovery in a rat model of sciatic nerve crush injury. British Journal of Neurosurgery, 2020, , 1-6.	0.8	17
58	Tiâ€"TiB2 composites consolidated by spark plasma sintering: Reaction mechanism, characteristics of in-situ formed phases and densification behavior. Materials Chemistry and Physics, 2020, 242, 122556.	4.0	16
59	Effect of (Coâ€"TeO2-doped polyvinylpyrrolidone) organic interlayer on the electrophysical characteristics of Al/p-Si (MS) structures. Journal of Materials Science: Materials in Electronics, 2021, 32, 21909-21922.	2.2	16
60	On the physical and mechanical properties of spark plasma sintered pure Ti and Ti-TiB composite. Materials Research Express, 2018, 5, 126512.	1.6	14
61	On the electrical characteristics of Al/p-Si diodes with and without (PVP: Sn-TeO2) interlayer using currentâ€"voltage (Iâ€"V) measurements. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	14
62	Characterization of reactive spark plasma sintered (Zr,Ti)B2â€"ZrCâ€"SiC composites. Journal of the Taiwan Institute of Chemical Engineers, 2021, 119, 187-195.	5.3	14
63	A survey on spark plasma sinterability of CNT-added TiC ceramics. International Journal of Refractory Metals and Hard Materials, 2021, 96, 105471.	3.8	13
64	TEM characterization of hot-pressed ZrB2-SiC-AlN composites. Results in Physics, 2020, 19, 103348.	4.1	12
65	Effects of SiC on densification, microstructure and nano-indentation properties of ZrB2â€"BN composites. Ceramics International, 2021, 47, 9873-9880.	4.8	12
66	Liquid Phase Sintering of Leaded Tin Bronze Alloyed Powder. Transactions of the Indian Institute of Metals, 2016, 69, 1377-1388.	1.5	10
67	Microstructural evolution of TiB2â€"SiC composites empowered with Si3N4, BN or TiN: A comparative study. Ceramics International, 2021, 47, 1002-1011.	4.8	10
68	Post hot rolling of spark plasma sintered Tiâ€"Moâ€"B4C composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 799, 140214.	5.6	10
69	Microstructureâ€"property correlation in nano-diamond and TiN added TiC-based ceramics. Ceramics International, 2021, 47, 449-460.	4.8	10
70	Synergistic effects of Si3N4 and CNT on densification and properties of TiC ceramics. Ceramics International, 2021, 47, 12941-12950.	4.8	10
71	Effects of discrete and simultaneous addition of SiC and Si3N4 on microstructural development of TiB2 ceramics. Ceramics International, 2021, 47, 3520-3528.	4.8	9
72	Characterization of TiC ceramics with SiC and/or WC additives using electron microscopy and electron probe micro-analysis. Journal of the Taiwan Institute of Chemical Engineers, 2021, , .	5.3	9

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73	HRTEM study and mechanical properties of ZrB2â€"SiC composite: An insight into in-situ carbon formation over the SPS process. International Journal of Refractory Metals and Hard Materials, 2022, 104, 105789.	3.8	9
74	Role of TiCN addition on the characteristics of reactive spark plasma sintered ZrB2-based novel composites. Journal of Alloys and Compounds, 2021, 875, 159901.	5.5	8
75	Microstructure of spark plasma sintered TiCâ€"TiB2â€"SiCw composite. Materials Chemistry and Physics, 2022, 281, 125877.	4.0	8
76	A TEM study on the microstructure of spark plasma sintered ZrB2-based composite with nano-sized SiC dopant. Progress in Natural Science: Materials International, 2021, 31, 47-54.	4.4	7
77	Relationship between pore coarsening and mass loss during supersolidus liquid phase sintering of alpha brass. Powder Metallurgy, 2019, 62, 331-339.	1.7	5
78	ZrB2SiCw composites with different carbonaceous additives. International Journal of Refractory Metals and Hard Materials, 2021, 95, 105457.	3.8	5
79	An interfacial survey on microstructure of ZrB2-based ceramics codoped with carbon fibers and SiC whiskers. Materials Chemistry and Physics, 2022, 275, 125322.	4.0	5
80	Spark plasma sinterability of TiC ceramics with different nitride additives. Journal of the Taiwan Institute of Chemical Engineers, 2021, , .	5.3	4
81	Nanoindentation and TEM investigation of spark plasma sintered TiB2â€"SiC composite. Ceramics International, 2022, 48, 20285-20293.	4.8	4
82	Microstructural evolution during spark plasma sintering of TiCâ€"AlNâ€"graphene ceramics. International Journal of Refractory Metals and Hard Materials, 2021, 96, 105496.	3.8	2
83	HRTEM and XPS characterizations for probable formation of TiBxNy solid solution during sintering process of TiB2â€"20SiCâ€"5Si3N4 composite. Materials Chemistry and Physics, 2022, 288, 126380.	4.0	2
84	Effect of iron nanoparticles on spark plasma sinterability of ZrB2-based ceramics. Journal of the Australian Ceramic Society, 0, , .	1.9	2