

# Mehdi Shahedi Asl

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

134  
papers

6,800  
citations

61  
h-index

75  
g-index

135  
ext. papers

7,555  
ext. citations

4.6  
avg, IF

7.13  
L-index

#	Paper	IF	Citations
134	An interfacial survey on microstructure of ZrB <sub>2</sub> -based ceramics codoped with carbon fibers and SiC whiskers. <i>Materials Chemistry and Physics</i> , <b>2022</b> , 275, 125322	4.4	0
133	Fabrication and characterization of HfB <sub>2</sub> -based composites in the presence of TiC and CNT. <i>Materials Chemistry and Physics</i> , <b>2022</b> , 126244	4.4	0
132	Fabrication of (Zr,Ti)B-ZrN-BN composites through reactive spark plasma sintering of ZrB and TiN.. <i>Micron</i> , <b>2021</b> , 154, 103203	2.3	1
131	Characterization and FEA evaluation of a ZrB <sub>2</sub> BiC ceramic containing TaC for beam-column joint application. <i>Ceramics International</i> , <b>2021</b> , 47, 11438-11450	5.1	5
130	g-C <sub>3</sub> N <sub>4</sub> nanosheet adorned with Ag <sub>3</sub> BiO <sub>3</sub> as a perovskite: An effective photocatalyst for efficient visible-light photocatalytic processes. <i>Materials Science in Semiconductor Processing</i> , <b>2021</b> , 125, 105651	4.3	15
129	Spark plasma sintering of TiB <sub>2</sub> -based ceramics with Ti <sub>3</sub> AlC <sub>2</sub> . <i>Ceramics International</i> , <b>2021</b> , 47, 11929-11934	3.4	7
128	Combined role of SiC whiskers and graphene nano-platelets on the microstructure of spark plasma sintered ZrB <sub>2</sub> ceramics. <i>Ceramics International</i> , <b>2021</b> , 47, 12459-12466	5.1	9
127	Synergistic effects of Si <sub>3</sub> N <sub>4</sub> and CNT on densification and properties of TiC ceramics. <i>Ceramics International</i> , <b>2021</b> , 47, 12941-12950	5.1	5
126	BN-Fe <sub>3</sub> O <sub>4</sub> -Pd nanocomposite modified carbon paste electrode: Efficient voltammetric sensor for sulfamethoxazole. <i>Ceramics International</i> , <b>2021</b> , 47, 13903-13911	5.1	9
125	The effect of cadmium impurities in the (PVP//eO <sub>2</sub> ) interlayer in Al/p-Si (MS) Schottky barrier diodes (SBDs): Exploring its electrophysical parameters. <i>Physica B: Condensed Matter</i> , <b>2021</b> , 604, 412617	2.8	12
124	Synergistic influence of SiC and C <sub>3</sub> N <sub>4</sub> reinforcements on the characteristics of ZrB <sub>2</sub> -based composites. <i>Journal of Asian Ceramic Societies</i> , <b>2021</b> , 9, 53-62	2.4	4
123	Spark plasma sinterability and thermal diffusivity of TiN ceramics with graphene additive. <i>Ceramics International</i> , <b>2021</b> , 47, 10057-10062	5.1	3
122	Microstructure, mechanical properties, and oxidation behavior of hot-pressed ZrB <sub>2</sub> BiCB <sub>4</sub> C composites. <i>Ceramics International</i> , <b>2021</b> , 47, 9627-9634	5.1	3
121	Effects of SiC on densification, microstructure and nano-indentation properties of ZrB <sub>2</sub> BN composites. <i>Ceramics International</i> , <b>2021</b> , 47, 9873-9880	5.1	5
120	Toughening of ZrB <sub>2</sub> -based composites with in-situ synthesized ZrC from ZrO <sub>2</sub> and graphite precursors. <i>Journal of Science: Advanced Materials and Devices</i> , <b>2021</b> , 6, 42-48	4.2	4
119	Influence of Sintering Temperature on Microstructure and Mechanical Properties of TiMoB <sub>4</sub> C Composites. <i>Metals and Materials International</i> , <b>2021</b> , 27, 1092-1102	2.4	45
118	Recent developments in voltammetric and amperometric sensors for cysteine detection.. <i>RSC Advances</i> , <b>2021</b> , 11, 5411-5425	3.7	12

117	On the oxidation behavior of ZrB <sub>2</sub> /SiC/C composites. <i>International Journal of Applied Ceramic Technology</i> , <b>2021</b> , 18, 2306	2	1
116	Effect of (CoTeO <sub>2</sub> -doped polyvinylpyrrolidone) organic interlayer on the electrophysical characteristics of Al/p-Si (MS) structures. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 21909-21922	2.1	3
115	Formation of Al <sub>2</sub> O <sub>3</sub> core-shell nanosphere chains during electron beam melting of TiAl. <i>Intermetallics</i> , <b>2021</b> , 136, 107261	3.5	0
114	A nanostructural approach to the interfacial phenomena in spark plasma sintered TiB <sub>2</sub> ceramics with vanadium and graphite additives. <i>Composites Part B: Engineering</i> , <b>2021</b> , 222, 109069	10	1
113	On the electrical characteristics of Al/p-Si diodes with and without (PVP: Sn-TeO <sub>2</sub> ) interlayer using current-voltage (I-V) measurements. <i>Applied Physics A: Materials Science and Processing</i> , <b>2020</b> , 126, 1	2.6	7
112	Experimental investigation of heat transfer and pressure drop in a minichannel heat sink using Al <sub>2</sub> O <sub>3</sub> and TiO <sub>2</sub> /water nanofluids. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , <b>2020</b> , 42, 1	2	26
111	Heat transfer and flow characteristics of hybrid Al <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> /water nanofluid in a minichannel heat sink. <i>Heat and Mass Transfer</i> , <b>2020</b> , 56, 2757-2767	2.2	21
110	A microstructural approach to the chemical reactions during the spark plasma sintering of novel TiCBN ceramics. <i>Ceramics International</i> , <b>2020</b> , 46, 15982-15990	5.1	38
109	Mathematical modeling of absorption accompanied by a non-elementary reversible chemical reaction. <i>Chemical Engineering Research and Design</i> , <b>2020</b> , 157, 58-64	5.5	11
108	Densification and toughening mechanisms in spark plasma sintered ZrB <sub>2</sub> -based composites with zirconium and graphite additives. <i>Ceramics International</i> , <b>2020</b> , 46, 13685-13694	5.1	52
107	Strengthening of novel TiC/AlN ceramic with in-situ synthesized Ti <sub>3</sub> Al intermetallic compound. <i>Ceramics International</i> , <b>2020</b> , 46, 14105-14113	5.1	48
106	On the simulation of spark plasma sintered TiB <sub>2</sub> ultra high temperature ceramics: A numerical approach. <i>Ceramics International</i> , <b>2020</b> , 46, 14787-14795	5.1	44
105	Role of graphite nano-flakes on the characteristics of ZrB <sub>2</sub> -based composites reinforced with SiC whiskers. <i>Diamond and Related Materials</i> , <b>2020</b> , 105, 107786	3.5	50
104	Strengthening of TiC ceramics sintered by spark plasma via nano-graphite addition. <i>Ceramics International</i> , <b>2020</b> , 46, 12400-12408	5.1	56
103	Aluminum nitride as an alternative ceramic for fabrication of microchannel heat exchangers: A numerical study. <i>Ceramics International</i> , <b>2020</b> , 46, 11647-11657	5.1	55
102	Influence of SPS temperature on the properties of TiC/SiCw composites. <i>Ceramics International</i> , <b>2020</b> , 46, 11735-11742	5.1	15
101	Effects of graphite nano-flakes on thermal and microstructural properties of TiB <sub>2</sub> /SiC composites. <i>Ceramics International</i> , <b>2020</b> , 46, 11622-11630	5.1	58
100	Characterization of triplet Ti <sub>3</sub> Si <sub>3</sub> TiC composites: Comparison of in-situ formation and ex-situ addition of TiC. <i>Ceramics International</i> , <b>2020</b> , 46, 11726-11734	5.1	46

99	Preparation of B <sub>4</sub> C/SiC/B <sub>2</sub> O <sub>3</sub> nanocomposite by mechanically activated combustion synthesis. <i>Ceramics International</i> , <b>2020</b> , 46, 12288-12295	5.1	40
98	Synthesis of novel ternary g-C <sub>3</sub> N <sub>4</sub> /SiC/C-Dots photocatalysts and their visible-light-induced activities in removal of various contaminants. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2020</b> , 392, 112431	4.7	37
97	Role of nano-WC addition on microstructural, mechanical and thermal characteristics of TiC/SiCw composites. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2020</b> , 90, 105248	4.1	51
96	Characterization of hot-pressed Ti <sub>3</sub> SiC <sub>2</sub> SiC composites. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2020</b> , 90, 105232	4.1	42
95	Phase change materials as quenching media for heat treatment of 42CrMo4 steels. <i>Journal of Central South University</i> , <b>2020</b> , 27, 752-761	2.1	20
94	Numerical simulation of heat transfer during spark plasma sintering of zirconium diboride. <i>Ceramics International</i> , <b>2020</b> , 46, 4998-5007	5.1	24
93	Combined role of SiC particles and SiC whiskers on the characteristics of spark plasma sintered ZrB <sub>2</sub> ceramics. <i>Ceramics International</i> , <b>2020</b> , 46, 5773-5778	5.1	37
92	Synthesis and morphology optimization of electrospun SiBNC nanofibers. <i>Ceramics International</i> , <b>2020</b> , 46, 6052-6059	5.1	5
91	Nano-diamond reinforced ZrB <sub>2</sub> /SiC composites. <i>Ceramics International</i> , <b>2020</b> , 46, 10172-10179	5.1	57
90	Phase transformation in spark plasma sintered ZrB <sub>2</sub> /SiC composites at different temperatures. <i>Ceramics International</i> , <b>2020</b> , 46, 9415-9420	5.1	9
89	Simultaneous Removal of Nickel and Cadmium During the Cold Purification of Zinc Sulfate Solution. <i>Arabian Journal for Science and Engineering</i> , <b>2020</b> , 45, 587-598	2.5	3
88	Triplet carbide composites of TiC, WC, and SiC. <i>Ceramics International</i> , <b>2020</b> , 46, 9070-9078	5.1	49
87	Advantages and disadvantages of graphite addition on the characteristics of hot-pressed ZrB <sub>2</sub> /SiC composites. <i>Ceramics International</i> , <b>2020</b> , 46, 8561-8566	5.1	16
86	Influence of TiB <sub>2</sub> content on the properties of TiC/SiCw composites. <i>Ceramics International</i> , <b>2020</b> , 46, 7403-7412	5.1	41
85	Numerical modeling of heat transfer during spark plasma sintering of titanium carbide. <i>Ceramics International</i> , <b>2020</b> , 46, 7615-7624	5.1	48
84	Nanoindentational and conventional mechanical properties of spark plasma sintered Ti/Mo alloys. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 10647-10658	5.5	18
83	Electrical and dielectric properties of Al/(PVP: Zn-TeO <sub>2</sub> )/p-Si heterojunction structures using current-voltage (I-V) and impedance-frequency (Z(f)) measurements. <i>Applied Physics A: Materials Science and Processing</i> , <b>2020</b> , 126, 1	2.6	22
82	Spark plasma sintering of quadruplet ZrB <sub>2</sub> /SiC/ZrCw composites. <i>Ceramics International</i> , <b>2020</b> , 46, 156-164	5.1	24

81	Solid solution formation during spark plasma sintering of ZrB <sub>2</sub> /TiC/graphite composites. <i>Ceramics International</i> , <b>2020</b> , 46, 2923-2930	5.1	27
80	Heat transfer and pressure drop in a ZrB <sub>2</sub> microchannel heat sink: A numerical approach. <i>Ceramics International</i> , <b>2020</b> , 46, 1730-1735	5.1	26
79	Hot pressing and oxidation behavior of ZrB <sub>2</sub> /SiC/TaC composites. <i>Ceramics International</i> , <b>2020</b> , 46, 3725-3730	5.1	24
78	Thermal diffusivity and microstructure of spark plasma sintered TiB <sub>2</sub> /SiC Ti composite. <i>Ceramics International</i> , <b>2019</b> , 45, 8333-8344	5.1	73
77	Preparation of mullite-TiB <sub>2</sub> -CNTs hybrid composite through spark plasma sintering. <i>Ceramics International</i> , <b>2019</b> , 45, 16288-16296	5.1	139
76	Investigation of hot pressed ZrB <sub>2</sub> /SiC/carbon black nanocomposite by scanning and transmission electron microscopy. <i>Ceramics International</i> , <b>2019</b> , 45, 16759-16764	5.1	59
75	Spark plasma sintering of ZrB <sub>2</sub> -based composites co-reinforced with SiC whiskers and pulverized carbon fibers. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2019</b> , 83, 104989	4.1	64
74	TiB <sub>2</sub> /SiC-based ceramics as alternative efficient micro heat exchangers. <i>Ceramics International</i> , <b>2019</b> , 45, 19060-19067	5.1	70
73	Heat transfer, thermal stress and failure analyses in a TiB <sub>2</sub> gas turbine stator blade. <i>Ceramics International</i> , <b>2019</b> , 45, 19331-19339	5.1	64
72	Effect of TiB <sub>2</sub> addition on the elevated temperature tribological behavior of spark plasma sintered Ti matrix composite. <i>Composites Part B: Engineering</i> , <b>2019</b> , 172, 271-280	10	83
71	Numerical analyses of heat transfer and thermal stress in a ZrB <sub>2</sub> gas turbine stator blade. <i>Ceramics International</i> , <b>2019</b> , 45, 17742-17750	5.1	69
70	Effects of ZrB <sub>2</sub> reinforcement on microstructure and mechanical properties of a spark plasma sintered mullite-CNT composite. <i>Ceramics International</i> , <b>2019</b> , 45, 16015-16021	5.1	120
69	A numerical approach to the heat transfer in monolithic and SiC reinforced HfB <sub>2</sub> , ZrB <sub>2</sub> and TiB <sub>2</sub> ceramic cutting tools. <i>Ceramics International</i> , <b>2019</b> , 45, 15892-15897	5.1	77
68	Microstructural, thermal and mechanical characterization of TiB <sub>2</sub> /SiC composites doped with short carbon fibers. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2019</b> , 82, 129-135	4.1	81
67	Reactive spark plasma sintering of TiB <sub>2</sub> /SiC/TiN novel composite. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2019</b> , 81, 119-126	4.1	81
66	Pressureless sintering of ZrB <sub>2</sub> ceramics codoped with TiC and graphite. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2019</b> , 81, 189-195	4.1	64
65	Influence of vanadium content on the characteristics of spark plasma sintered ZrB <sub>2</sub> /SiC/V composites. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 805, 725-732	5.7	72
64	A novel ZrB <sub>2</sub> /Ti <sub>3</sub> N <sub>4</sub> composite with improved mechanical properties. <i>Ceramics International</i> , <b>2019</b> , 45, 21512-21519	5.1	63

63	Nanoindentation and nanostructural characterization of ZrB <sub>2</sub> /SiC composite doped with graphite nano-flakes. <i>Composites Part B: Engineering</i> , <b>2019</b> , 175, 107153	10	68
62	Co-reinforcing of mullite-TiN-CNT composites with ZrB <sub>2</sub> and TiB <sub>2</sub> compounds. <i>Ceramics International</i> , <b>2019</b> , 45, 20844-20854	5.1	124
61	The effect of thermal contact resistance on the temperature distribution in a WC made cutting tool. <i>Ceramics International</i> , <b>2019</b> , 45, 22196-22202	5.1	62
60	Hybrid Ti matrix composites with TiB <sub>2</sub> and TiC compounds. <i>Materials Today Communications</i> , <b>2019</b> , 20, 100576	2.5	62
59	Spark plasma sintering of TiC/SiCw ceramics. <i>Ceramics International</i> , <b>2019</b> , 45, 19808-19821	5.1	69
58	A numerical approach to the heat transfer and thermal stress in a gas turbine stator blade made of HfB <sub>2</sub> . <i>Ceramics International</i> , <b>2019</b> , 45, 24060-24069	5.1	56
57	Spark plasma sintering of Al-doped ZrB <sub>2</sub> /SiC composite. <i>Ceramics International</i> , <b>2019</b> , 45, 4262-4267	5.1	81
56	Spark plasma sintering of TiN ceramics codoped with SiC and CNT. <i>Ceramics International</i> , <b>2019</b> , 45, 32075-32168	5.1	89
55	Microstructure and thermomechanical characteristics of spark plasma sintered TiC ceramics doped with nano-sized WC. <i>Ceramics International</i> , <b>2019</b> , 45, 2153-2160	5.1	93
54	Microstructure/mechanical properties correlation in spark plasma sintered TiB <sub>2</sub> /8 wt.% TiB <sub>2</sub> composites. <i>Materials Chemistry and Physics</i> , <b>2019</b> , 223, 789-796	4.4	67
53	Influence of TiN dopant on microstructure of TiB <sub>2</sub> ceramic sintered by spark plasma. <i>Ceramics International</i> , <b>2019</b> , 45, 5306-5311	5.1	37
52	Self-propagating high-temperature synthesis of Ti <sub>3</sub> AlC <sub>2</sub> MAX phase from mechanically-activated Ti/Al/graphite powder mixture. <i>Ceramics International</i> , <b>2018</b> , 44, 9671-9678	5.1	79
51	Microstructural investigation of spark plasma sintered TiB <sub>2</sub> ceramics with Si <sub>3</sub> N <sub>4</sub> addition. <i>Ceramics International</i> , <b>2018</b> , 44, 13367-13372	5.1	74
50	Effects of carbon additives on the properties of ZrB <sub>2</sub> -based composites: A review. <i>Ceramics International</i> , <b>2018</b> , 44, 7334-7348	5.1	140
49	Modulated large-pore mesoporous silica as an efficient base catalyst for the Henry reaction. <i>Research on Chemical Intermediates</i> , <b>2018</b> , 44, 1617-1626	2.8	39
48	Effects of nano-graphite content on the characteristics of spark plasma sintered ZrB <sub>2</sub> /SiC composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 716, 99-106	5.3	87
47	Densification improvement of spark plasma sintered TiB <sub>2</sub> -based composites with micron-, submicron- and nano-sized SiC particulates. <i>Ceramics International</i> , <b>2018</b> , 44, 11431-11437	5.1	80
46	Synergistic effects of graphite nano-flakes and submicron SiC particles on the characteristics of spark plasma sintered ZrB <sub>2</sub> nanocomposites. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2018</b> , 75, 10-17	4.1	75

45	A statistical approach towards processing optimization of ZrB <sub>2</sub> /SiC/graphite nanocomposites. Part I: Relative density. <i>Ceramics International</i> , <b>2018</b> , 44, 6935-6939	5.1	69
44	Effects of sintering temperature on microstructure and mechanical properties of spark plasma sintered titanium. <i>Materials Chemistry and Physics</i> , <b>2018</b> , 203, 266-273	4.4	80
43	Reinforcing effects of SiC whiskers and carbon nanoparticles in spark plasma sintered ZrB <sub>2</sub> matrix composites. <i>Ceramics International</i> , <b>2018</b> , 44, 19932-19938	5.1	77
42	Spark plasma sintering of TiAl <sub>3</sub> /AlC <sub>2</sub> composite. <i>Ceramics International</i> , <b>2018</b> , 44, 21759-21764	5.1	66
41	A novel ZrB <sub>2</sub> /B <sub>2</sub> O <sub>3</sub> /rC composite fabricated by reactive spark plasma sintering. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 731, 131-139	5.3	76
40	Phase evolution during spark plasma sintering of novel Si <sub>3</sub> N <sub>4</sub> -doped TiB <sub>2</sub> /SiC composite. <i>Materials Characterization</i> , <b>2018</b> , 145, 225-232	3.9	70
39	Nanostructural approach to the thickening behavior and oxidation of calcium-stabilized aluminum foams. <i>Materials Chemistry and Physics</i> , <b>2018</b> , 220, 351-359	4.4	9
38	TEM characterization of spark plasma sintered ZrB <sub>2</sub> /SiC/graphene nanocomposite. <i>Ceramics International</i> , <b>2018</b> , 44, 15269-15273	5.1	91
37	Effects of spark plasma sintering temperature on densification, hardness and thermal conductivity of titanium carbide. <i>Ceramics International</i> , <b>2018</b> , 44, 14541-14546	5.1	96
36	Microstructural development during spark plasma sintering of ZrB <sub>2</sub> /SiC/Al <sub>2</sub> O <sub>3</sub> composite. <i>Ceramics International</i> , <b>2018</b> , 44, 18078-18083	5.1	77
35	Optimization of effective parameters on thermal shock resistance of ZrB <sub>2</sub> -SiC-based composites prepared by SPS: Using Taguchi design. <i>Materials Chemistry and Physics</i> , <b>2017</b> , 196, 333-340	4.4	69
34	Sintering behavior of ZrB <sub>2</sub> /SiC composites doped with Si <sub>3</sub> N <sub>4</sub> : A fractographical approach. <i>Ceramics International</i> , <b>2017</b> , 43, 9699-9708	5.1	75
33	Densification, microstructure and mechanical properties of hot pressed ZrB <sub>2</sub> /SiC ceramic doped with nano-sized carbon black. <i>Ceramics International</i> , <b>2017</b> , 43, 8411-8417	5.1	79
32	Effect of TiB <sub>2</sub> content on the characteristics of spark plasma sintered Ti <sub>3</sub> SiB <sub>w</sub> composites. <i>Advanced Powder Technology</i> , <b>2017</b> , 28, 1564-1572	4.6	88
31	Contribution of SiC particle size and spark plasma sintering conditions on grain growth and hardness of TiB <sub>2</sub> composites. <i>Ceramics International</i> , <b>2017</b> , 43, 13924-13931	5.1	80
30	Microstructure, hardness and fracture toughness of spark plasma sintered ZrB <sub>2</sub> /SiC/Al <sub>2</sub> O <sub>3</sub> composites. <i>Ceramics International</i> , <b>2017</b> , 43, 15047-15052	5.1	73
29	Effect of different additives and open porosity on fracture toughness of ZrB <sub>2</sub> /SiC-based composites prepared by SPS. <i>Ceramics International</i> , <b>2017</b> , 43, 2209-2220	5.1	75
28	Effects of in-situ formed TiB whiskers on microstructure and mechanical properties of spark plasma sintered TiB <sub>4</sub> C and Ti <sub>3</sub> SiB <sub>2</sub> composites. <i>Scientia Iranica</i> , <b>2017</b> , 0-0	1.5	2

27	Characteristics of multi-walled carbon nanotube toughened ZrB <sub>2</sub> /SiC ceramic composite prepared by hot pressing. <i>Ceramics International</i> , <b>2016</b> , 42, 1950-1958	5.1	112
26	Temperature dependence of microstructure evolution during hot pressing of ZrB <sub>2</sub> /0 vol.% SiC composites. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2016</b> , 54, 7-13	4.1	80
25	Synergetic effects of SiC and Cs <sub>f</sub> in ZrB <sub>2</sub> -based ceramic composites. Part I: Densification behavior. <i>Ceramics International</i> , <b>2016</b> , 42, 4498-4506	5.1	66
24	Reactive hot pressing of ZrB <sub>2</sub> -based composites with changes in ZrO <sub>2</sub> /SiC ratio and sintering conditions. Part II: Mechanical behavior. <i>Ceramics International</i> , <b>2016</b> , 42, 2724-2733	5.1	65
23	Influence of silicon carbide addition on the microstructural development of hot pressed zirconium and titanium diborides. <i>Ceramics International</i> , <b>2016</b> , 42, 5375-5381	5.1	81
22	Characteristics of dynamically formed oxide films in aluminum-calcium foamable alloys. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 655, 433-441	5.7	16
21	Synergetic effects of SiC and Cs <sub>f</sub> in ZrB <sub>2</sub> -based ceramic composites. Part II: Grain growth. <i>Ceramics International</i> , <b>2016</b> , 42, 18612-18619	5.1	58
20	Electrophoretic deposition of spherical carbonyl iron particles on carbon fibers as a microwave absorbent composite. <i>Surfaces and Interfaces</i> , <b>2016</b> , 5, 1-7	4.1	25
19	Interfacial phenomena and formation of nano-particles in porous ZrB <sub>2</sub> /0 vol% B <sub>4</sub> C UHTC. <i>Ceramics International</i> , <b>2016</b> , 42, 17009-17015	5.1	67
18	Characterization of hot pressed SiC whisker reinforced TiB <sub>2</sub> based composites. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2016</b> , 61, 84-90	4.1	86
17	Significance of hot pressing parameters and reinforcement size on densification behavior of ZrB <sub>2</sub> /5vol% SiC UHTCs. <i>Ceramics International</i> , <b>2015</b> , 41, 6439-6447	5.1	57
16	Significance of hot pressing parameters on the microstructure and densification behavior of zirconium diboride. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2015</b> , 50, 140-145	4.1	60
15	Fractographical characterization of hot pressed and pressureless sintered SiAlON-doped ZrB <sub>2</sub> /SiC composites. <i>Materials Characterization</i> , <b>2015</b> , 102, 137-145	3.9	74
14	A Taguchi approach to the influence of hot pressing parameters and SiC content on the sinterability of ZrB <sub>2</sub> -based composites. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2015</b> , 51, 81-90 <sup>4.1</sup>		57
13	Significance of hot pressing parameters and reinforcement size on sinterability and mechanical properties of ZrB <sub>2</sub> /5vol% SiC UHTCs. <i>Ceramics International</i> , <b>2015</b> , 41, 9628-9636	5.1	58
12	Microstructural development and mechanical properties of hot pressed SiC reinforced TiB <sub>2</sub> based composite. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2015</b> , 51, 169-179	4.1	109
11	Fractographical characterization of hot pressed and pressureless sintered AlN-doped ZrB <sub>2</sub> /SiC composites. <i>Materials Characterization</i> , <b>2015</b> , 110, 77-85	3.9	71
10	Characterization of hot-pressed graphene reinforced ZrB <sub>2</sub> /SiC composite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 625, 385-392	5.3	126



9	Taguchi analysis on the effect of hot pressing parameters on density and hardness of zirconium diboride. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2015</b> , 50, 313-320	4.1	52
8	A fractographical approach to the sintering process in porous ZrB <sub>2</sub> B <sub>4</sub> C binary composites. <i>Ceramics International</i> , <b>2015</b> , 41, 379-387	5.1	61
7	Hardness and toughness of hot pressed ZrB <sub>2</sub> SiC composites consolidated under relatively low pressure. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 619, 481-487	5.7	98
6	Reactive hot pressing of ZrB <sub>2</sub> -based composites with changes in ZrO <sub>2</sub> /SiC ratio and sintering conditions. Part I: Densification behavior. <i>Ceramics International</i> , <b>2015</b> , 41, 8388-8396	5.1	62
5	Influence of graphite nano-flakes on densification and mechanical properties of hot-pressed ZrB <sub>2</sub> SiC composite. <i>Ceramics International</i> , <b>2015</b> , 41, 5843-5851	5.1	83
4	Fractographical assessment of densification mechanisms in hot pressed ZrB <sub>2</sub> -SiC composites. <i>Ceramics International</i> , <b>2014</b> , 40, 15273-15281	5.1	61
3	TiO <sub>2</sub> (rutile and anatase) deposited on ordered mesoporous SiO <sub>2</sub> : effect of pore size on photocatalytic activity, 156-163		7
2	Synthesis and Sintering of Ti <sub>3</sub> SiC <sub>2</sub> SiC Composites through Reactive Hot-Pressing of TiC and Si Precursors. <i>Silicon</i> , 1	2.4	1
1	Finite element simulation of disk-shaped HfB <sub>2</sub> ceramics during spark plasma sintering process. <i>International Journal of Applied Ceramic Technology</i> ,	2	2