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## Refractory Diborides of Zirconium and Hafnium

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#	Paper	IF	Citations
1574	Vanadium Diboride (VB <sub>2</sub> ) Synthesized at High Pressure: Elastic, Mechanical, Electronic, and Magnetic Properties and Thermal Stability.		
1573	Structure, defects and properties of some refractory borides. <b>1985</b> , 57, 1383-1390		48
1572	Pressureless Sintering of Zirconium Diboride Using Boron Carbide and Carbon Additions. <i>Journal of the American Ceramic Society</i> , <b>2007</b> , 90, 3660-3663	3.8	134
1571	Pressureless Sintering of ZrB <sub>2</sub> /SiC Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2007</b> , 91, 26-32	3.8	120
1570	Hot pressing of hafnium diboride aided by different sinter additives. <b>2008</b> , 43, 1002-1007		34
1569	Spark plasma sintering of UHTC powders obtained by self-propagating high-temperature synthesis. <b>2008</b> , 43, 6406-6413		16
1568	Spark plasma sintering of ultra refractory compounds. <b>2008</b> , 43, 6414-6421		29
1567	Effect of thermal exposure on strength of ZrB <sub>2</sub> -based composites with nano-sized SiC particles. <b>2008</b> , 68, 3033-3040		116
1566	Scratch-induced microplasticity and microcracking in zirconium diboride/silicon carbide composite. <b>2008</b> , 56, 3011-3022		89
1565	Measurement of scratch-induced residual stress within SiC grains in ZrB <sub>2</sub> /SiC composite using micro-Raman spectroscopy. <b>2008</b> , 56, 5345-5354		76
1564	Processing and properties of ultra-high temperature ceramics for space applications. <b>2008</b> , 485, 415-421		190
1563	Hot-pressed ZrB <sub>2</sub> /SiC/SSZ composites with various yttria content: Microstructure and mechanical properties. <b>2008</b> , 494, 147-152		18
1562	Pressureless Sintering of Zirconium Diboride: Particle Size and Additive Effects. <i>Journal of the American Ceramic Society</i> , <b>2008</b> , 91, 1398-1404	3.8	158
1561	A Simple Polymeric Precursor Strategy for the Syntheses of Complex Zirconium and Hafnium-Based Ultra High-Temperature Silicon-Carbide Composite Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2008</b> , 91, 1412-1415	3.8	34
1560	Densification and Mechanical Behavior of HfC and HfB <sub>2</sub> Fabricated by Spark Plasma Sintering. <i>Journal of the American Ceramic Society</i> , <b>2008</b> , 91, 1433-1440	3.8	132
1559	Thermochemical and Mechanical Stabilities of the Oxide Scale of ZrB <sub>2</sub> +SiC and Oxygen Transport Mechanisms. <i>Journal of the American Ceramic Society</i> , <b>2008</b> , 91, 1475-1480	3.8	69
1558	Effect of the Machining Method on the Catalycity and Emissivity of ZrB <sub>2</sub> and ZrB <sub>2</sub> /HfB <sub>2</sub> -Based Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2008</b> , 91, 1461-1468	3.8	53

1557	Thermal Conductivity Characterization of Hafnium Diboride-Based Ultra-High-Temperature Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2008</b> , 91, 1423-1432	3.8	51
1556	Oxidation Resistance of Fully Dense ZrB <sub>2</sub> with SiC, TaB <sub>2</sub> , and TaSi <sub>2</sub> Additives. <i>Journal of the American Ceramic Society</i> , <b>2008</b> , 91, 1489-1494	3.8	95
1555	Laser Sintering of ZrB <sub>2</sub> . <i>Journal of the American Ceramic Society</i> , <b>2008</b> , 91, 1729-1731	3.8	39
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1427	Oxidation behaviour of zirconium diboride-silicon carbide ceramic composites under low oxygen partial pressure. <b>2011</b> , 53, 3742-3746		42
1426	Equilibrium between MB <sub>2</sub> (M=Ti,Zr,Hf) UHTC and Ni: A thermodynamic database for the B-Hf-Ni-Zr system. <b>2011</b> , 35, 601-619		35
1425	Combustion synthesis of vanadium borides. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 3257-3261	5.7	40
1424	Hybrid Ceramic Matrix Fibrous Composites: an Overview. <b>2011</b> , 18, 082002		4
1423	Densification Behavior and Microstructure Evolution of Hot-Pressed HfB <sub>2</sub> . <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 49-58	3.8	28
1422	Effect of Starting Particle Size and Oxygen Content on Densification of ZrB <sub>2</sub> . <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 429-435	3.8	71
1421	Oxidation of Zirconium Diboride with Tungsten Carbide Additions. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 1198-1205	3.8	39
1420	Chemical Reactions, Anisotropic Grain Growth and Sintering Mechanisms of Self-Reinforced ZrB <sub>2</sub> /SiC Doped with WC. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 1575-1583	3.8	80
1419	Densification of ZrB <sub>2</sub> -TaSi <sub>2</sub> and HfB <sub>2</sub> -TaSi <sub>2</sub> Ultra-High-Temperature Ceramic Composites. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 1920-1930	3.8	81
1418	Atomic Scale Modeling of Point Defects in Zirconium Diboride. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 2225-2229	3.8	32
1417	Thermal and Electrical Transport Properties of Spark Plasma-Sintered HfB <sub>2</sub> and ZrB <sub>2</sub> Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 2562-2570	3.8	76
1416	Thermophysical Properties of Laser-Sintered Zr/ZrB <sub>2</sub> Cermets. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 2592-2599	3.8	6
1415	Effect of Laser Sintering on Ti/ZrB <sub>2</sub> Mixtures. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 3282-3285	3.8	7
1414	Ab Initio Computations of Electronic, Mechanical, and Thermal Properties of ZrB <sub>2</sub> and HfB <sub>2</sub> . <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 3494-3499	3.8	53

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1412	Spark Plasma Joining of ZrB2/BiC Composites Using Zirconium-Boron Reactive Filler Layers. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 3825-3832	3.8	39
1411	Effect of Carbon Impurities on Hot-Pressed ZrB2/BiC Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 3241-3244	3.8	19
1410	New Borothermal Reduction Route to Synthesize Submicrometric ZrB2 Powders with Low Oxygen Content. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 3702-3705	3.8	44
1409	Mechanical Characterization of ZrB2/BiC Composites with Varying SiC Particle Sizes. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 4410-4418	3.8	67
1408	The oxidation behaviors of a ZrB2/BiC-ZrC ceramic. <b>2011</b> , 13, 534-538		43
1407	Pressureless sintered in situ toughened ZrB2/BiC platelets ceramics. <b>2011</b> , 31, 2145-2153		28
1406	Toughening of laminated ZrB2/BiC ceramics with residual surface compression. <b>2011</b> , 31, 2415-2423		37
1405	On the crystallite size refinement of ZrB2 by high-energy ball-milling in the presence of SiC. <b>2011</b> , 31, 2407-2414		28
1404	Microstructure and shear strength of self-joined ZrB2 and ZrB2/BiC with pure Ni. <b>2011</b> , 64, 17-20		42
1403	Initial stage of oxidation process and microstructure analysis of HfB2/0 vol.% SiC composite at 1500°C. <b>2011</b> , 64, 617-620		20
1402	Microstructure and mechanical properties of ZrB2/BiC-ZrO2 ceramic. <b>2011</b> , 64, 872-875		32
1401	In situ platelet-toughened TiB2/BiC composites prepared by reactive pulsed electric current sintering. <b>2011</b> , 64, 1145-1148		31
1400	Textured and platelet-reinforced ZrB2-based ultra-high-temperature ceramics. <b>2011</b> , 65, 37-40		34
1399	Fabrication of ZrB2-ZrC-based composites by reactive melt infiltration at relative low temperature. <b>2011</b> , 65, 139-142		48
1398	Determination of post-yield hardening response in a ZrB2 ceramic. <b>2011</b> , 65, 962-965		8
1397	Preparation of ZrB2 based composites by reactive melt infiltration at relative low temperature. <b>2011</b> , 65, 2910-2912		22
1396	Spark plasma synthesis and densification of TaB2 by pulsed electric current sintering. <b>2011</b> , 65, 3080-3082		28

1395	Investigations on synthesis of ZrB <sub>2</sub> and development of new composites with HfB <sub>2</sub> and TiSi <sub>2</sub> . <b>2011</b> , 29, 21-30	74
1394	Ultrasonic and hardness measurements for ultrahigh pressure prepared WB ceramics. <b>2011</b> , 29, 329-331	27
1393	Fabrication, mechanical properties and thermal shock resistance of a ZrB <sub>2</sub> -graphite ceramic. <b>2011</b> , 29, 351-355	39
1392	Comparison of ZrB <sub>2</sub> SiC ceramics with Yb <sub>2</sub> O <sub>3</sub> additive prepared by hot pressing and spark plasma sintering. <b>2011</b> , 29, 452-455	23
1391	Mechanochemical and volume combustion synthesis of ZrB <sub>2</sub> . <b>2011</b> , 29, 601-607	43
1390	High-temperature deformation of ZrB <sub>2</sub> ceramics with WC additive in four-point bending. <b>2011</b> , 29, 705-709	9
1389	Mechanical properties of HfB <sub>2.7</sub> nanocrystalline thin films. <b>2011</b> , 33, 151-158	21
1388	Mechanochemical synthesis of Ti <sub>1-x</sub> Zr <sub>x</sub> B <sub>2</sub> and Ti <sub>1-x</sub> Hf <sub>x</sub> B <sub>2</sub> solid solutions. <b>2011</b> , 37, 1895-1904	27
1387	Microstructural evolution of ZrB <sub>2</sub> -MoSi <sub>2</sub> composites during heat treatment. <b>2011</b> , 37, 2931-2935	25
1386	Toward Oxidation-Resistant ZrB <sub>2</sub> -SiC Ultra High Temperature Ceramics. <b>2011</b> , 42, 878-887	114
1385	Thermodynamic Calculation of HfB <sub>2</sub> Volatility Diagram. <b>2011</b> , 32, 422-427	5
1384	Oxidation behavior of ZrB <sub>2</sub> -MoSi <sub>2</sub> SiC composites in air at 1500 °C. <b>2011</b> , 37, 585-591	51
1383	Preparation and properties of 2D C/SiC-ZrB <sub>2</sub> -TaC composites. <b>2011</b> , 37, 891-896	65
1382	A comparative study on combustion synthesis of TaB compounds. <b>2011</b> , 37, 1569-1573	31
1381	Pressureless sintering of silicon carbide ceramics containing zirconium diboride. <b>2011</b> , 37, 2031-2035	20
1380	ZrB <sub>2</sub> SiC composite parts in oxyacetylenic torch tests: Experimental and computational assessment of chemical, thermal and mechanical behavior. <b>2011</b> , 528, 6896-6906	18
1379	Electronic and structural properties of TiB <sub>2</sub> : Bulk, surface, and nanoscale effects. <b>2011</b> , 176, 484-489	16
1378	Effect of BN grain size on microstructure and mechanical properties of the ZrB <sub>2</sub> SiCBN composites. <b>2011</b> , 32, 401-405	28

1377	Radiative properties characterization of ZrB <sub>2</sub> SiC-based ultrahigh temperature ceramic at high temperature. <b>2011</b> , 32, 377-381	37
1376	In situ synthesis and properties of Zr <sub>2</sub> Al <sub>3</sub> C <sub>4</sub> /ZrB <sub>2</sub> composites. <b>2011</b> , 32, 4289-4294	11
1375	Spark plasma sintered tantalum carbide-carbon nanotube composite: Effect of pressure, carbon nanotube length and dispersion technique on microstructure and mechanical properties. <b>2011</b> , 528, 2538-2547 <sup>70</sup>	
1374	Effect of annealing treatment on mechanical properties of a ZrB <sub>2</sub> SiC-graphite ceramic. <b>2011</b> , 528, 2870-2874	15
1373	Compressive strength degradation in ZrB <sub>2</sub> -based ultra-high temperature ceramic composites. <b>2011</b> , 31, 1345-1352	18
1372	ZrO <sub>2</sub> removing reactions of Groups IV-VI transition metal carbides in ZrB <sub>2</sub> based composites. <b>2011</b> , 31, 421-427	37
1371	In situ synthesis and densification of submicrometer-grained B <sub>4</sub> C-TiB <sub>2</sub> composites by pulsed electric current sintering. <b>2011</b> , 31, 637-644	58
1370	Mechanical properties of sintered ZrB <sub>2</sub> SiC ceramics. <b>2011</b> , 31, 893-901	86
1369	Measurement of thermal residual stresses in ZrB <sub>2</sub> SiC composites. <b>2011</b> , 31, 1811-1820	74
1368	Lattice thermal conductivity of ultra high temperature ceramics ZrB <sub>2</sub> and HfB <sub>2</sub> from atomistic simulations. <b>2011</b> , 110, 083507	29
1367	Microstructure and Mechanical Property of the ZrB <sub>2</sub> -Based Ultra-High-Temperature Ceramic Composites Brazed Joint. <b>2011</b> , 314-316, 1184-1188	1
1366	Microstructure and mechanical properties of ZrB <sub>2</sub> SiC ultrahigh temperature ceramic composite joint using TiZrNiCu filler metal. <b>2011</b> , 16, 697-701	8
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1364	Effect of High-Energy Ball Milling of ZrB <sub>2</sub> Powder on the Microstructure and Mechanical Properties of ZrB <sub>2</sub> -SiC Ceramics. <b>2012</b> , 512-515, 723-728	
1363	Mechano-Chemical Synthesis of TiB <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> Nano-Composite by Reaction between TiO <sub>2</sub> , B <sub>2</sub> O <sub>3</sub> and Al. <b>2012</b> , 488-489, 955-959	2
1362	Ablation Property of ZrB <sub>2</sub> -SiC Composite Sharp Leading Edges with Varying Radiuses of Curvature under Oxy-Acetylene Torch. <b>2012</b> , 512-515, 710-714	5
1361	Study on ZrB <sub>2</sub> -SiC Prepared by Field Assisted Sintering. <b>2012</b> , 512-515, 729-734	
1360	Elastic Properties of Spark Plasma Sintered (SPS) ZrB <sub>2</sub> /SiC-Sm <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> Composites. <b>2012</b> , 512-515, 474-478	

1359	In situ three point bending device for measurements of vibrational response of ceramics under stress by microRaman spectroscopy. <b>2012</b> , 111, 433-439	10
1358	Electrical and Mechanical Properties of ZrB <sub>2</sub> -Based Composite Ceramic. <b>2012</b> , 512-515, 744-747	1
1357	Oxidation of ultra-high temperature transition metal diboride ceramics. <b>2012</b> , 57, 61-72	152
1356	Formation of chromium borides by combustion synthesis involving borothermic and aluminothermic reduction of Cr <sub>2</sub> O <sub>3</sub> . <b>2012</b> , 38, 5691-5697	18
1355	A review of transition metals diborides: from wettability studies to joining. <b>2012</b> , 47, 8275-8289	26
1354	Wettability and transient liquid phase bonding of hafnium diboride composite with Ni <sub>40</sub> W <sub>60</sub> alloys. <b>2012</b> , 47, 8454-8463	18
1353	ZrB <sub>2</sub> /SiC/Ti6Al4V joints: wettability studies using Ag- and Cu-based braze alloys. <b>2012</b> , 47, 8439-8449	28
1352	Comparison of ZrB <sub>2</sub> -ZrO <sub>2</sub> ceramics prepared by hot pressing and pressureless sintering. <b>2012</b> , 35, 102-107	11
1351	Effect of EuB <sub>6</sub> addition on densification and properties of ZrB <sub>2</sub> . <b>2012</b> , 35, 96-101	11
1350	Structural and thermodynamic properties of WB at high pressure and high temperature. <b>2012</b> , 407, 4760-4764	5
1349	Effective thermal conductivity of ultra-high temperature ceramics with thermal contact resistance. <b>2012</b> , 86, 055402	5
1348	Electrical discharge machining of composites. <b>2012</b> , 202-241	3
1347	The Effect of Different Preparation Methods on the Microstructure of Zirconium Diboride Ceramic Powder. <b>2012</b> , 624, 9-12	
1346	Temperature Jump Phenomenon During Plasmatron Testing of ZrB <sub>2</sub> -SiC Ultrahigh-Temperature Ceramics. <b>2012</b> , 26, 559-572	55
1345	Properties and appropriate conditions of stress reduction factor and thermal shock resistance parameters for ceramics. <b>2012</b> , 33, 1351-1360	10
1344	Thermodynamic study on co-deposition of ZrB <sub>2</sub> /SiC from ZrCl <sub>4</sub> -B <sub>2</sub> Cl <sub>3</sub> -H <sub>2</sub> -SiCl <sub>4</sub> -H <sub>2</sub> Ar system. <b>2012</b> , 520, 7030-7034	7
1343	The hybrid effect of SiC whisker coupled with ZrO <sub>2</sub> fiber on microstructure and mechanical properties of ZrB <sub>2</sub> -based ceramics. <b>2012</b> , 551, 187-191	13
1342	In situ formation of ZrB <sub>2</sub> -ZrO <sub>2</sub> ultra-high-temperature ceramic composites from high-energy ball-milled ZrB <sub>2</sub> powders. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 518, 38-43	5.7 21

1341	Platinum boride nanowires: Synthesis and characterization. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 521, 66-70	5.7	7
1340	Microstructural investigation of in situ TiB whiskers array reinforced ZrB <sub>2</sub> SiC joint. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 527, 117-121	5.7	14
1339	Synthesis of ZrB <sub>2</sub> powders by carbothermal and borothermal reduction. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 538, 164-168	5.7	52
1338	Elastic stability and electronic structure of tantalum boride investigated via first-principles density functional calculations. <b>2012</b> , 73, 1197-1202		10
1337	Electronic structure and elastic properties of TiB <sub>2</sub> and ZrB <sub>2</sub> . <b>2012</b> , 61, 150-157		33
1336	A SiC/ZrB <sub>2</sub> SiC/SiC oxidation resistance multilayer coating for carbon/carbon composites. <b>2012</b> , 57, 148-153		80
1335	Aqueous gelcasting of ZrB <sub>2</sub> SiC ultra high temperature ceramics. <b>2012</b> , 38, 5411-5418		51
1334	Computational Modeling of Grain Boundaries in ZrB <sub>2</sub> : Implications for Lattice Thermal Conductivity. <i>Journal of the American Ceramic Society</i> , <b>2012</b> , 95, 3971-3978	3.8	7
1333	Strength of hot pressed ZrB <sub>2</sub> SiC composite after exposure to high temperatures (1000–1700°C). <b>2012</b> , 32, 4455-4467		39
1332	Diffusion bonding of ZrB <sub>2</sub> SiC/Nb with in situ synthesized TiB whiskers array. <b>2012</b> , 32, 4447-4454		37
1331	Tungsten Doped ZrB <sub>2</sub> Powder Synthesized Synergistically by Co-Precipitation and Solid-State Reaction Methods. <b>2012</b> , 27, 1679-1685		4
1330	Tough hybrid ceramic-based material with high strength. <b>2012</b> , 67, 744-747		9
1329	Preparation and characterization of ZrB <sub>2</sub> SiC–r <sub>2</sub> Al <sub>4</sub> C <sub>5</sub> composites by spark plasma sintering-reactive synthesis (SPS-RS) method. <b>2012</b> , 558, 186-192		10
1328	Compressibility and strength of nanocrystalline tungsten boride under compression to 60 GPa. <b>2012</b> , 111, 123514		20
1327	Control of Interfacial Reactivity Between ZrB <sub>2</sub> and Ni-Based Brazing Alloys. <b>2012</b> , 21, 660-666		23
1326	Transient thermo-mechanical analysis of dynamic curving cracks in functionally graded materials. <b>2012</b> , 223, 1485-1506		5
1325	Powder Processing Effects on the Rapid Low-Temperature Densification of ZrB <sub>2</sub> SiC Ultra-High Temperature Ceramic Composites Using Spark Plasma Sintering. <i>Journal of the American Ceramic Society</i> , <b>2012</b> , 95, 194-203	3.8	38
1324	Improvement of the Spark-Plasma-Sintering Kinetics of ZrC by High-Energy Ball-Milling. <i>Journal of the American Ceramic Society</i> , <b>2012</b> , 95, 453-456	3.8	26

1323	Light Reflection Behavior of ZrB <sub>2</sub> -Based Composites with SiC Particles. <i>Journal of the American Ceramic Society</i> , <b>2012</b> , 95, 469-472	3.8	1
1322	In situ Formation of Oxidation Resistant Refractory Coatings on SiC-Reinforced ZrB <sub>2</sub> Ultra High Temperature Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2012</b> , 95, 1247-1254	3.8	56
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1319	Strong ZrB <sub>2</sub> /SiC/C Ceramics at 1600°C. <i>Journal of the American Ceramic Society</i> , <b>2012</b> , 95, n/a-n/a	3.8	19
1318	Nano-Hafnium Diboride Powders Synthesized Using a Spark Plasma Sintering Apparatus. <i>Journal of the American Ceramic Society</i> , <b>2012</b> , 95, 1493-1496	3.8	34
1317	High-temperature flexural creep of ZrB <sub>2</sub> /SiC ceramics in argon atmosphere. <b>2012</b> , 38, 831-835		13
1316	Carbothermal production of ZrB <sub>2</sub> /ZrO <sub>2</sub> ceramic powders from ZrO <sub>2</sub> /B <sub>2</sub> O <sub>3</sub> /B system by high-energy ball milling and annealing assisted process. <b>2012</b> , 38, 2201-2207		20
1315	A study of the oxidation of ZrB <sub>2</sub> powders during high-energy ball-milling in air. <b>2012</b> , 38, 2857-2863		27
1314	Si-SiC-ZrB <sub>2</sub> ceramics by silicon reactive infiltration. <b>2012</b> , 38, 3243-3250		17
1313	In situ synthesis of ZrB <sub>2</sub> /MoSi <sub>2</sub> platelet composites: Reactive hot pressing process, microstructure and mechanical properties. <b>2012</b> , 38, 4751-4760		24
1312	Effect of pressure loading cycle on spark plasma sintered ZrB <sub>2</sub> /SiC/B <sub>2</sub> O <sub>3</sub> ceramics. <b>2012</b> , 38, 5293-5297		7
1311	Effect of CrSi <sub>2</sub> and HfB <sub>2</sub> addition on densification and properties of ZrB <sub>2</sub> . <b>2012</b> , 31, 125-131		24
1310	The effect of Ti substitution by Zr on the microstructure and mechanical properties of the cermet Ti <sub>1-x</sub> Zr <sub>x</sub> C sintered by SPS. <b>2012</b> , 31, 132-137		20
1309	In situ synthesis and sintering of ZrB <sub>2</sub> porous ceramics by the spark plasma sintering/Reactive synthesis (SPS/RS) method. <b>2012</b> , 34, 3-7		39
1308	Dynamic curving cracks in functionally graded materials under thermo-mechanical loading. <b>2012</b> , 49, 1637-1655		19
1307	Influence of Oxidation Healing for Cracks on the Strength of Hot-Pressed ZrB <sub>2</sub> /SiC/AlN Ceramics. <b>2012</b> , 9, 441-446		5
1306	Densification Behavior and Thermal Properties of Hafnium Diboride with the Addition of Boron Carbides. <i>Journal of the American Ceramic Society</i> , <b>2012</b> , 95, 2035-2043	3.8	11



1305	Pressureless Sintering of Zirconium Diboride Ceramics with Boron Additive. <i>Journal of the American Ceramic Society</i> , <b>2012</b> , 95, 2470-2473	3.8	14
1304	Effects of SiC platelet and ZrSi <sub>2</sub> additive on sintering and mechanical properties of ZrB <sub>2</sub> -based ceramics by hot-pressing. <b>2012</b> , 34, 293-297		25
1303	Repeated thermal shock behavior of the ZrB <sub>2</sub> /SiC/ZrC ultrahigh-temperature ceramic. <b>2012</b> , 35, 133-137		25
1302	Toughening of ZrB <sub>2</sub> /SiC ceramics with the microstructure ZrB <sub>2</sub> /ZrAl <sub>2</sub> O <sub>3</sub> fibrous monolith. <b>2012</b> , 66, 296-299		10
1301	High toughness in pressureless densified ZrB <sub>2</sub> -based composites co-doped with boron/titanium carbides. <b>2012</b> , 66, 523-526		27
1300	Synthesis of submicrometer HfB <sub>2</sub> powder and its densification. <b>2012</b> , 83, 52-55		34
1299	Spark plasma sintering of novel ZrB <sub>2</sub> /SiC/Si <sub>3</sub> N <sub>4</sub> composites with better mechanical properties. <b>2012</b> , 534, 111-118		36
1298	Residual strength of hot pressed zirconium diboride (ZrB <sub>2</sub> ) after exposure to high temperatures. <b>2012</b> , 535, 189-196		16
1297	ZrB <sub>2</sub> powders prepared by boro/carbothermal reduction of ZrO <sub>2</sub> : The effects of carbon source and reaction atmosphere. <b>2012</b> , 217, 462-466		56
1296	ZrB <sub>2</sub> /SiC laminated ceramic composites. <b>2012</b> , 32, 1435-1439		32
1295	TaB <sub>2</sub> -based ceramics: Microstructure, mechanical properties and oxidation resistance. <b>2012</b> , 32, 97-105		51
1294	Crystal-size dependence of the spark-plasma-sintering kinetics of ZrB <sub>2</sub> ultra-high-temperature ceramics. <b>2012</b> , 32, 271-276		59
1293	Processing, sintering and oxidation behavior of SiC fibers reinforced ZrB <sub>2</sub> composites. <b>2012</b> , 32, 1933-1940		44
1292	High-temperature bending strength, internal friction and stiffness of ZrB <sub>2</sub> /0vol% SiC ceramics. <b>2012</b> , 32, 2519-2527		97
1291	Microstructure refinement and mechanical properties improvement of HfB <sub>2</sub> /SiC composites with the incorporation of HfC. <b>2012</b> , 32, 2557-2563		21
1290	Spark-plasma sintering of ZrB <sub>2</sub> ultra-high-temperature ceramics at lower temperature via nanoscale crystal refinement. <b>2012</b> , 32, 2529-2536		50
1289	High-strength ZrB <sub>2</sub> -based ceramics prepared by reactive pulsed electric current sintering of ZrB <sub>2</sub> /rH <sub>2</sub> powders. <b>2012</b> , 32, 2537-2543		17
1288	Temperature-dependent mechanical and long crack behavior of zirconium diboride/silicon carbide composite. <b>2012</b> , 32, 3453-3462		33

1287	Anisotropy oxidation of textured ZrB <sub>2</sub> /MoSi <sub>2</sub> ceramics. <b>2012</b> , 32, 3469-3476	19
1286	Pressureless sintering of HfB <sub>2</sub> /SiC ceramics doped with WC. <b>2012</b> , 32, 3627-3635	37
1285	Reactive Processing of a ZrB <sub>2</sub> / ZrC / ZrSi Ceramic Composite with a Controlled Oxygen Potential. <b>2013</b> , 10, 234-244	3
1284	Dispersion and Gelcasting of Zirconium Diboride through Aqueous Route. <b>2013</b> , 10, E226-E233	9
1283	Effects of graphite flake diameter on mechanical properties and thermal shock behavior of ZrB <sub>2</sub> /nanoSiC/graphite ceramics. <b>2013</b> , 41, 133-137	20
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1120	Two-step reduction process and spark plasma sintering for the synthesis of ultra fine SiC and ZrB <sub>2</sub> powder mixtures. <b>2014</b> , 42, 132-135		15
1119	Sintering and Densification Mechanisms of Ultra-High Temperature Ceramics. <b>2014</b> , 112-143		13
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1116	Synthesis of ZrB <sub>2</sub> -SiC composite powder in air furnace. <b>2014</b> , 40, 15647-15653		26
1115	Fractographical assessment of densification mechanisms in hot pressed ZrB <sub>2</sub> -SiC composites. <b>2014</b> , 40, 15273-15281		61
1114	Characterization of hot-pressed short ZrO <sub>2</sub> fiber toughened ZrB <sub>2</sub> -based ultra-high temperature ceramics. <b>2014</b> , 95, 272-277		11
1113	Preparation of zirconium diboride powders by co-pyrolysis of a zirconium-containing organic precursor and polyborazine using a solution based method. <b>2014</b> , 40, 15207-15214		6
1112	Low-Temperature Synthesis of Ultra-High-Temperature Coatings of ZrB <sub>2</sub> Using Reactive Multilayers. <b>2014</b> , 118, 21192-21198		33
1111	Oxidation of ZrB <sub>2</sub> Nanoparticles at High Temperature under Low Oxygen Pressure. <i>Journal of the American Ceramic Society</i> , <b>2014</b> , 97, 2360-2363	3.8	12
1110	Micromechanics modeling of creep fracture of zirconium diboride-silicon carbide composites at 1400-1700°C. <b>2014</b> , 34, 4145-4155		18
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1108	Plasma arc welding of ZrB <sub>2</sub> -20vol% ZrC ceramics. <b>2014</b> , 34, 3549-3557		26

1107	Investigation and characterization of densification, processing and mechanical properties of TiB <sub>2</sub> /SiC ceramics. <b>2014</b> , 64, 9-14		21
1106	Ta Hf <sub>1</sub> B <sub>2</sub> /SiC multiphase oxidation protective coating for SiC-coated carbon/carbon composites. <b>2014</b> , 87, 479-488		54
1105	Oxidation behavior of ZrB <sub>2</sub> -xSiC composites at 1500°C under different oxygen partial pressures. <b>2014</b> , 40, 15303-15311		21
1104	In situ synthesis of ZrC/SiC nanocomposite via carbothermic reduction of binary xerogel. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 613, 379-386	5-7	19
1103	Synthesis, Sintering, and Oxidative Behavior of HfB <sub>2</sub> /HfSi <sub>2</sub> Ceramics. <b>2014</b> , 53, 9101-9108		17
1102	Reaction spark plasma sintering of niobium diboride. <b>2014</b> , 43, 259-262		32
1101	Preparation of Zirconium, Titanium, and Magnesium Diborides by Metallothermic Reduction. <b>2014</b> , 54, 407-412		1
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1098	Combined effect of SiC chopped fibers and SiC whiskers on the toughening of ZrB <sub>2</sub> . <b>2014</b> , 40, 4819-4826		32
1097	ZrB <sub>2</sub> ceramics doped with AlB <sub>2</sub> . <b>2014</b> , 40, 8915-8920		4
1096	Preparation and properties of carbon fiber reinforced ZrC/ZrB <sub>2</sub> based composites via reactive melt infiltration. <b>2014</b> , 60, 222-226		49
1095	Experimental investigations and thermodynamic modeling in the ZrB <sub>2</sub> /Ni section of the BNiZr system. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 592, 115-120	5-7	8
1094	Mechanical properties and toughening mechanism of WC-doped ZrB <sub>2</sub> /ZrSi <sub>2</sub> ceramic composites by hot pressing. <b>2014</b> , 62, 199-204		30
1093	Mechanical and thermal properties of hot pressed ZrB <sub>2</sub> system with TiB <sub>2</sub> . <b>2014</b> , 46, 35-42		47
1092	Modelling damage and creep crack growth in structural ceramics at ultra-high temperatures. <b>2014</b> , 34, 2799-2805		16
1091	Ablation behavior and mechanism of C/ZrC, C/ZrC/SiC and C/SiC composites fabricated by polymer infiltration and pyrolysis process. <b>2014</b> , 86, 131-141		96
1090	Effect of B <sub>4</sub> C, MoSi <sub>2</sub> , nano SiC and micro-sized SiC on pressureless sintering behavior, room-temperature mechanical properties and fracture behavior of Zr(Hf)B <sub>2</sub> -based composites. <b>2014</b> , 40, 10767-10776		14

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1086	Fabrication and properties of PIP 3D Cf/ZrC/SiC composites. <b>2014</b> , 591, 105-110		39
1085	High frequency induction heated sintering of nanostructured Al <sub>2</sub> O <sub>3</sub> /ZrB <sub>2</sub> composite produced by MASHS technique. <b>2014</b> , 40, 9217-9224		17
1084	Fabrication and mechanical properties of TiB <sub>2</sub> /ZrO <sub>2</sub> functionally graded ceramics. <b>2014</b> , 46, 1-5		11
1083	Microstructure and mechanical properties of hot pressed TiB <sub>2</sub> /SiC composite ceramic tool materials at room and elevated temperatures. <b>2014</b> , 606, 108-116		42
1082	Oxidation behavior of ZrB <sub>2</sub> composites doped with various transition metal silicides. <b>2014</b> , 83, 281-291		79
1081	Effect of SiC content on mechanical properties and thermal shock resistance of BN/SiO <sub>2</sub> /SiC composites. <b>2014</b> , 590, 346-351		22
1080	Mechanochemical synthesis of Al <sub>2</sub> O <sub>3</sub> /ZrB <sub>2</sub> /SiO <sub>2</sub> nanocomposite powder. <b>2014</b> , 49, 672-676		19
1079	Change in microstructures and physical properties of ZrB <sub>2</sub> /SiC ceramics hot-pressed with a variety of SiC sources. <b>2014</b> , 40, 3477-3483		29
1078	Effect of Si <sub>3</sub> N <sub>4</sub> Addition on Compressive Creep Behavior of Hot-Pressed ZrB <sub>2</sub> /SiC Composites. <i>Journal of the American Ceramic Society</i> , <b>2014</b> , 97, 2957-2964	3.8	14
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1072	Densification behavior of ZrB <sub>2</sub> with Co/WC as additives. <b>2014</b> , 122, 198-203		5

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1069	Structure, composition, and mechanical properties of thin films of transition metals diborides. <b>2015</b> , 37, 422-428		11
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1067	Hot Pressing Sintering of ZrB <sub>2</sub> with $\beta$ -SiC Addition. <b>2015</b> , 820, 262-267		
1066	Densification and Mechanical Properties of ZrB <sub>2</sub> -TiB <sub>2</sub> Ultra High Temperature Ceramic Composites. <b>2015</b> , 275-285		0
1065	Pressureless Sintering of ZrB <sub>2</sub> with $\beta$ -SiC Addition. <b>2015</b> , 820, 250-255		1
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1055	Effects of In-Plane Geometric Shapes on Thermal Shock Resistance of Ultra-High Temperature Ceramic Components. <b>2015</b> , 74, 6-10		1
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1048	Nanostructured titanium, zirconium and hafnium diborides: the synthesis, properties, size effects and stability. <b>2015</b> , 84, 540-554		29
1047	Development of multi-layered thermal protection system (TPS) for aerospace applications. <b>2015</b> , 79, 392-405		55
1046	Microstructures, solid solution formation and high-temperature mechanical properties of ZrB <sub>2</sub> ceramics doped with 5 vol.% WC. <b>2015</b> , 81, 133-140		40
1045	Spark plasma sintering of B <sub>4</sub> C/ZrB <sub>2</sub> and B <sub>4</sub> C/ZrB <sub>2</sub> SiC ceramics. <b>2015</b> , 19, S1-343-S1-346		3
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1043	Preparation and microstructure of porous ZrB <sub>2</sub> ceramics using reactive spark plasma sintering method. <b>2015</b> , 30, 512-515		5
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1031	Influence of graphite nano-flakes on densification and mechanical properties of hot-pressed ZrB <sub>2</sub> /SiC composite. <b>2015</b> , 41, 5843-5851		83
1030	Improvement of fracture toughness of ZrB <sub>2</sub> /SiC composites with carbon interfaces. <b>2015</b> , 35, 1985-1989		16
1029	Significance of hot pressing parameters and reinforcement size on densification behavior of ZrB <sub>2</sub> /5vol% SiC UHTCs. <b>2015</b> , 41, 6439-6447		57
1028	Significance of hot pressing parameters on the microstructure and densification behavior of zirconium diboride. <b>2015</b> , 50, 140-145		60
1027	Reactive Hot Pressing and Properties of Zr <sub>1-x</sub> Ti <sub>x</sub> B <sub>2</sub> /rC Composites. <i>Journal of the American Ceramic Society</i> , <b>2015</b> , 98, 711-716	3.8	9
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1022	Oxidation of a ZrB <sub>2</sub> coating fabricated on Ta/W alloy by electrophoretic deposition and laser melting. <b>2015</b> , 148, 76-78		17
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941	Ablation behavior of TaB <sub>2</sub> SiC coating for carbon/carbon composites under oxyacetylene torch. <b>2016</b> , 131, 223-230		26
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824	UHTC coating reinforced by HfC nanowires against ablation for C/C composites. <b>2017</b> , 311, 191-198	27
823	Thermal and electrical transport in ZrB <sub>2</sub> -SiC-WC ceramics up to 1800 °C. <b>2017</b> , 129, 159-169	22
822	Influence of surface oxidation on the radiative properties of ZrB <sub>2</sub> -SiC composites. <b>2017</b> , 409, 1-7	10
821	Controllable magnitude and anisotropy of the electrical conductivity of HfCO MXene. <b>2017</b> , 29, 165701	22
820	Effect of Argon Gas Purging of Spark Plasma Sintered ZrB <sub>2</sub> +SiC Nano-Powder Composites. <b>2017</b> , 171-178	1

8 <sub>19</sub>	Evaluation of the high temperature performance of HfB <sub>2</sub> UHTC particulate filled Cf/C composites. <b>2017</b> , 14, 344-353		22
8 <sub>18</sub>	Densification mechanisms during reactive spark plasma sintering of Titanium diboride and Zirconium diboride. <b>2017</b> , 97, 1588-1609		10
8 <sub>17</sub>	First-principles investigations on elevated temperature elastic and thermodynamic properties of ZrB <sub>2</sub> and HfB <sub>2</sub> . <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 3662-3672	3.8	13
8 <sub>16</sub>	Factorial design to minimize residual oxygen in reaction hot-pressed zirconium diboride. <b>2017</b> , 14, 636-643		7
8 <sub>15</sub>	High temperature erosion behavior of spark plasma sintered ZrB <sub>2</sub> -SiC composites. <b>2017</b> , 43, 8982-8988		15
8 <sub>14</sub>	Electrical conductive and damage-tolerant nanolaminated MAB phases Cr <sub>2</sub> AlB <sub>2</sub> , Cr <sub>3</sub> AlB <sub>4</sub> and Cr <sub>4</sub> AlB <sub>6</sub> . <b>2017</b> , 5, 440-448		48
8 <sub>13</sub>	The role of ceramic and glass science research in meeting societal challenges: Report from an NSF-sponsored workshop. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 1777-1803	3.8	17
8 <sub>12</sub>	Effect of Milling and Sintering Temperature of TaC//AlB <sub>2</sub> Composite on Lattice Parameter and C/Ta Ratio. <b>2017</b> , 57, 507-512		2
8 <sub>11</sub>	Rapid spark plasma sintering to produce dense UHTCs reinforced with undamaged carbon fibres. <b>2017</b> , 130, 1-7		26
8 <sub>10</sub>	A novel liquid hybrid precursor method via sol-gel for the preparation of ZrB <sub>2</sub> films. <b>2017</b> , 128, 80-85		9
8 <sub>09</sub>	Preparation of ZrB <sub>2</sub> -SiC ceramics by single-step and optimized two-step hot pressing using nanosized ZrB <sub>2</sub> powders. <b>2017</b> , 200, 14-17		12
8 <sub>08</sub>	Density functional theory insights into ternary layered boride MoAlB. <b>2017</b> , 132, 69-81		65
8 <sub>07</sub>	Thermal stress analysis of the FGLCS in hypersonic vehicles: Their application to fuel injection struts in scramjets. <b>2017</b> , 99, 157-165		9
8 <sub>06</sub>	Oxidation behaviour of a continuous carbon fibre reinforced ZrB <sub>2</sub> /SiC composite. <b>2017</b> , 123, 129-138		45
8 <sub>05</sub>	Temperature dependent fracture strength model for the laminated ZrB <sub>2</sub> based composites. <b>2017</b> , 162, 39-46		15
8 <sub>04</sub>	Phase stability and incompressibility of tungsten boride (WB) researched by in-situ high pressure x-ray diffraction. <b>2017</b> , 521, 6-12		12
8 <sub>03</sub>	Dispersion and structural evolution of multi-walled carbon nanotubes in ZrB <sub>2</sub> matrix. <b>2017</b> , 43, 10533-10539		3
8 <sub>02</sub>	Reducing the Ideal Shear Strengths of ZrB by High Efficient Alloying Elements (Ag, Au, Pd and Pt). <b>2017</b> , 7, 43416		7

801	Microstructure and Mechanical Properties of ZrB <sub>2</sub> /Alumina/Mullite Composite Synthesized by Combined SHS and Direct Consolidation. <b>2017</b> , 189, 1728-1738		4
800	Synthesis and room temperature coating of nano ZrB <sub>2</sub> on copper using mechanical roll-milling. <b>2017</b> , 28, 2044-2051		2
799	Si <sub>3</sub> N <sub>4</sub> -ZrB <sub>2</sub> ceramics prepared at low temperature with improved mechanical properties. <b>2017</b> , 37, 4217-4221		5
798	Mechanical properties of individual phases of ZrB <sub>2</sub> -ZrC eutectic composite measured by nanoindentation. <b>2017</b> , 37, 4223-4227		24
797	Titanium diboride ceramics for solar thermal absorbers. <b>2017</b> , 169, 313-319		51
796	Densification, microstructure and mechanical properties of hot pressed ZrB <sub>2</sub> /SiC ceramic doped with nano-sized carbon black. <b>2017</b> , 43, 8411-8417		79
795	Microstructure and mechanical properties of TaC ceramics with 17.5 mol% Si as sintering aid. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 2461-2470	3.8	13
794	Microstructure and mechanical properties of ZrB <sub>2</sub> -SiC based ceramic composites with nano-sized SiC particles synthesized by in-situ reaction. <b>2017</b> , 693, 145-150		17
793	Effect of tensile stress on thermal fatigue life of ZrB <sub>2</sub> -SiC-graphite composite. <b>2017</b> , 126, 91-97		7
792	Inhomogeneous oxidation of ZrB <sub>2</sub> -SiC ultra-high-temperature ceramic particulate composites and its mitigation. <b>2017</b> , 129, 138-148		38
791	Effects of B <sub>4</sub> C and BN additions on formation of NbB <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> composites from reduction-based combustion synthesis. <b>2017</b> , 43, 7560-7564		7
790	Particle refinement of ZrB <sub>2</sub> by the combination of borothermal reduction and solid solution. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 524-528	3.8	8
789	Orientation-dependent nanoscratch resistance of zirconium diboride ceramic grains. <b>2017</b> , 65, 45-51		8
788	Solubility of tungsten in zirconium diboride solid solution. <b>2017</b> , 37, 1195-1203		6
787	First principles modeling and simulation of Zr-Si-B-C-N ceramics: Developing hard and oxidation resistant coatings. <b>2017</b> , 125, 246-254		6
786	Microstructures and properties of silicon carbide- and graphene nanoplatelet-reinforced titanium diboride composites. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 729, 949-959	5.7	27
785	Hot corrosion behavior of ZrB <sub>2</sub> -HfB <sub>2</sub> solid solutions in KCl and K <sub>2</sub> SO <sub>4</sub> at 1500 °C. <b>2017</b> , 43, 17071-17085		4
784	Pressurelessly densified (Zr,Hf)B <sub>2</sub> -SiC ceramics by co-doping hafnium-boron carbides. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 727, 706-710	5.7	5

783	Slip activation controlled nanohardness anisotropy of ZrB <sub>2</sub> ceramic grains. <b>2017</b> , 140, 452-464		16
782	Synthesis of bulk nanocrystalline HfB <sub>2</sub> from HfCl <sub>4</sub> -NaBH <sub>4</sub> -Mg ternary system. <b>2017</b> , 52, 12689-12705		5
781	Oxidation synthesis of Hf <sub>6</sub> Ta <sub>2</sub> O <sub>17</sub> superstructures. <b>2017</b> , 197, 154-162		16
780	A ZrB <sub>2</sub> BiC/SiC oxidation protective dual-layer coating for carbon/carbon composites. <b>2017</b> , 116, 462-467		17
779	Rapid synthesis, electrical, and mechanical properties of polycrystalline Fe <sub>2</sub> AlB <sub>2</sub> bulk from elemental powders. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 4407-4411	3.8	31
778	Thermal Ablation Performance of CF-HFB <sub>2</sub> Composites With and Without A C Matrix Deposited by CVI. <b>2017</b> , 211-221		
777	Effect of in-situ grown SiC nanowires on the mechanical properties of HfC-ZrB <sub>2</sub> -SiC modified C/C composites. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 726, 866-874	5.7	36
776	Low-temperature synthesis of ZrB <sub>2</sub> powder from oxides using NaPeer review under responsibility of The Ceramic Society of Japan and the Korean Ceramic Society.View all notes. <b>2017</b> , 5, 479-481		6
775	High-temperature strength and plastic deformation behavior of niobium diboride consolidated by spark plasma sintering. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 5295-5305	3.8	14
774	An aqueous polymer quenching medium for instantaneous thermal shock cooling rate study of ceramic materials. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 724, 234-239	5.7	8
773	Establishing microstructure-mechanical property correlation in ZrB <sub>2</sub> -based ultra-high temperature ceramic composites. <b>2017</b> , 43, 13483-13492		14
772	Fracture strength of the particulate-reinforced ultra-high temperature ceramics based on a temperature dependent fracture toughness model. <b>2017</b> , 107, 365-378		34
771	Room Temperature Corrosion Behavior of ZrB <sub>2</sub> -HfB <sub>2</sub> Solid Solutions in Acidic and Basic Aqueous Environments. <b>2017</b> , 246, 173-189		1
770	Thermite assisted synthesis of ZrB <sub>2</sub> and ZrB <sub>2</sub> BiC through B <sub>4</sub> C reduction of ZrO <sub>2</sub> and ZrSiO <sub>4</sub> in air. <b>2017</b> , 6, 139-148		7
769	Easily tiltable BAIB linear chain: The origin of unusual mechanical properties of nanolaminated MAB phases (CrB <sub>2</sub> ) <sub>n</sub> CrAl. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 723, 462-466	5.7	14
768	First-principles investigation on crystal structure and physical properties of HfB <sub>4</sub> . <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 723, 802-810	5.7	14
767	Monolithic Ceramics for Aerospace Applications. <b>2017</b> , 415-437		
766	Ultrastrong Boron Frameworks in ZrB : A Highway for Electron Conducting. <b>2017</b> , 29, 1604003		50

765	Ultra-high temperature ceramics: Materials for extreme environments. <b>2017</b> , 129, 94-99	318
764	Graphene reinforced metal and ceramic matrix composites: a review. <b>2017</b> , 62, 241-302	337
763	First-principle study on the structural, elastic and electronic properties of CrB <sub>4</sub> hard material under different pressures. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 694, 733-738	5.7 5
762	Preparation of ZrB <sub>2</sub> and ZrB <sub>2</sub> -SiC powders in a single step reduction of zircon (ZrSiO <sub>4</sub> ) with B <sub>4</sub> C. <b>2017</b> , 43, 1205-1209	14
761	Design, Preparation and Properties of Carbon Fiber Reinforced Ultra-High Temperature Ceramic Composites for Aerospace Applications: A Review. <b>2017</b> , 33, 117-130	185
760	Effect of Method of Sample Preparation on Strength of Zirconium Diboride (ZrB <sub>2</sub> ). <b>2017</b> , 70, 997-1003	
759	ZrB <sub>2</sub> -based composites toughened by as-received and heat-treated short carbon fibers. <b>2017</b> , 37, 549-558	30
758	Efficacy of a ZrB <sub>2</sub> SiC matrix in protecting C fibres from oxidation in novel UHTCMC materials. <b>2017</b> , 113, 207-213	59
757	TaB <sub>2</sub> powders synthesis by reduction of Ta <sub>2</sub> O <sub>5</sub> with B <sub>4</sub> C. <b>2017</b> , 43, 897-900	11
756	Effect of SiC content on electrical, thermal and ablative properties of pressureless sintered ZrB <sub>2</sub> -based ultrahigh temperature ceramic composites. <b>2017</b> , 37, 559-572	26
755	Effect of carbon nanotube on processing, microstructural, mechanical and ablation behavior of ZrB <sub>2</sub> -20SiC based ultra-high temperature ceramic composites. <b>2017</b> , 111, 269-282	77
754	In-situ synthesis and densification of HfB <sub>2</sub> ceramics by the spark plasma sintering technique. <b>2017</b> , 43, 3547-3555	14
753	High Heat Flux Laser Testing of HfB <sub>2</sub> Cylinders. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 293-303	6
752	An investigation of abrasive and erosion behaviour of AA 2618 reinforced with Si <sub>3</sub> N <sub>4</sub> , AlN and ZrB <sub>2</sub> in situ composites by using optimization techniques. <b>2017</b> , 17, 43-54	39
751	Absorber materials for Generation IV reactors. <b>2017</b> , 533-567	8
750	ZrB <sub>2</sub> SiC based composites for thermal protection by reaction sintering of ZrO <sub>2</sub> +B <sub>4</sub> C+Si. <b>2017</b> , 6, 320-329	17
749	Gerichtet erstarrte Mo-Zr-B-Legierungen. <b>2017</b> , 48, 1113-1124	5
748	Comparative Study between Vickers and Knoop Micro-hardness of Ultra High Temperature Ceramics. <b>2017</b> , 23, 794-795	1

747	Mechanical properties of single crystals of transition metals diborides TMB <sub>2</sub> (TM = Sc, Hf, Zr, Ti). Experiment and theory. <b>2017</b> , 39, 308-318		5
746	Prediction of tensile power law creep constants from compression and bend data for ZrB <sub>2</sub> /0 vol% SiC composites at 1800 °C. <b>2017</b> , 6, 304-311		1
745	Synthesis of Highly Dispersed Zirconium Diboride for Fabrication of Special-Purpose Ceramic. <b>2017</b> , 90, 1579-1585		5
744	Combustion Synthesis of UHTC Composites from TiB <sub>4</sub> C Solid State Reaction with Addition of VIB Transition Metals. <b>2017</b> , 7, 73		4
743	Phase and Microstructural Correlation of Spark Plasma Sintered HfB <sub>2</sub> -ZrB <sub>2</sub> Based Ultra-High Temperature Ceramic Composites. <b>2017</b> , 7, 110		30
742	Synthesis of Nanocrystalline Boron Carbide by Direct Microwave Carbothermal Reduction of Boric Acid. <b>2017</b> , 2017, 1-8		11
741	High-Temperature Methods. <b>2017</b> , 1-22		1
740	Preparation of Ultra-High Temperature CeramicsBased Materials by Sol-Gel Routes. <b>2017</b> ,		
739	Microstructural Evaluation of ZrB <sub>2</sub> /ZrO <sub>2</sub> Ceramic Powders Prepared by Milling-Assisted Magnesiothermic Reduction of Oxide Raw Materials. <b>2017</b> , 34, 183-196		1
738	A multipurpose sensor for heat flux and temperature measurement: Design and Computational Analysis. <b>2017</b> ,		1
737	Understanding the mechanical properties of novel UHTCMCs through random forest and regression tree analysis. <b>2018</b> , 145, 97-107		29
736	Influence of SPS Sintering Temperature on Properties of ZrB <sub>2</sub> BiC/3C <sub>2</sub> Ceramic. <b>2018</b> , 533-540		
735	Fabrication and properties of Cf/ZrC-SiC-based composites by an improved reactive melt infiltration. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 3253-3258	3.8	22
734	First principle study of UHTC ternary diboride, Cr <sub>2</sub> AlB <sub>2</sub> . <b>2018</b> ,		2
733	Mechanical, electrical and thermal properties of ZrC-ZrB <sub>2</sub> -SiC ternary eutectic composites prepared by arc melting. <b>2018</b> , 38, 3759-3766		14
732	Understanding the oxidation behavior of a ZrB <sub>2</sub> /MoSi <sub>2</sub> composite at ultra-high temperatures. <b>2018</b> , 151, 216-228		48
731	Effect of chromium additive on sintering and oxidation behavior of HfB <sub>2</sub> -SiC ceramics. <b>2018</b> , 44, 12451-12457		9
730	Microstructural evolution and growth/degradation behavior of in situ TiB whiskers in ZrB <sub>2</sub> -SiC joints using Ti/Ni/Ti filler. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 744, 124-131	5.7	12



729	Electronic structure, bonding behavior and optical properties of (HfC) <sub>m</sub> Al <sub>4</sub> C <sub>3</sub> (m = 1, 2, 3) carbides. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 741, 76-84	5.7	3
728	Effects of carbon additives on the properties of ZrB <sub>2</sub> -based composites: A review. <b>2018</b> , 44, 7334-7348		140
727	Ablation behavior of three-dimensional Cf/SiC-ZrC-ZrB <sub>2</sub> composites prepared by a joint process of sol-gel and reactive melt infiltration. <b>2018</b> , 134, 49-56		31
726	Densification kinetics and mechanical properties of tantalum carbide. <b>2018</b> , 73, 221-230		10
725	Combustion synthesis of high-temperature ZrB <sub>2</sub> -SiC ceramics. <b>2018</b> , 38, 2792-2801		18
724	Effect of surface heat transfer coefficient gradient on thermal shock failure of ceramic materials under rapid cooling condition. <b>2018</b> , 44, 8992-8999		8
723	Synthesis of group IV and V metal diboride nanocrystals via borothermal reduction with sodium borohydride. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 2627-2637	3.8	16
722	Reactive spark plasma sintering and mechanical properties of ZrB <sub>2</sub> -SiC-ZrC composites from ZrC-B <sub>4</sub> C-Si system. <b>2018</b> , 44, 8417-8422		15
721	Grain boundary driven mechanical properties of ZrB <sub>2</sub> and ZrC-ZrB <sub>2</sub> nanocomposite: A molecular simulation study. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 3105-3117	3.8	8
720	New route to synthesize ZrB <sub>2</sub> coatings by reactive chemical vapor deposition method using Zr-BCl <sub>3</sub> -H <sub>2</sub> -Ar reagents. <b>2018</b> , 337, 209-216		2
719	High-temperature mechanical behavior of ZrB <sub>2</sub> -based composites with micrometer- and nano-sized SiC particles. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 2707-2711	3.8	11
718	Vanadium Diboride (VB) Synthesized at High Pressure: Elastic, Mechanical, Electronic, and Magnetic Properties and Thermal Stability. <b>2018</b> , 57, 1096-1105		39
717	Self-propagating high-temperature synthesis of refractory boride ceramics (Zr,Ta)B <sub>2</sub> with superior properties. <b>2018</b> , 38, 1118-1127		34
716	Role of boron addition on phase composition, microstructural evolution and mechanical properties of nanocrystalline SiBCN monoliths. <b>2018</b> , 38, 1179-1189		10
715	Enhanced high-temperature strength of HfB <sub>2</sub> -SiC composite up to 1600°C. <b>2018</b> , 38, 1152-1157		13
714	Y <sub>5</sub> Si <sub>2</sub> B <sub>8</sub> : A theoretically predicted new damage-tolerant MAB phase with layered crystal structure. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 2459-2470	3.8	16
713	Temperature-dependent fracture strength and the effect of oxidation for ZrB <sub>2</sub> -SiC ceramics. <b>2018</b> , 38, 1112-1117		6
712	Cr <sub>5</sub> Si <sub>3</sub> B and Hf <sub>5</sub> Si <sub>3</sub> B: New MAB phases with anisotropic electrical, mechanical properties and damage tolerance. <b>2018</b> , 34, 1441-1448		20

711	Theoretical investigations on mechanical and dynamical properties of MAIB (M = Mo, W) nanolaminated borides at ground-states and elevated temperatures. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 738, 461-472	5.7	22
710	Study of the high-temperature oxidation resistance mechanism of magnetron sputtered Hf7B23Si17C4N45 film. <b>2018</b> , 36, 021505		5
709	Nanostructuring of Strontium Hexaboride via Lithiation. <b>2018</b> , 57, 4-7		6
708	Effectiveness of boria welding flux in improving the wettability of ZrB2 in contact with molten Cu. <b>2018</b> , 38, 4198-4202		4
707	Influence of SiC content on the oxidation of carbon fibre reinforced ZrB2/SiC composites at 1500 and 1650 °C in air. <b>2018</b> , 38, 3767-3776		26
706	Low-temperature densification, microstructures and mechanical properties of ZrB2/SiC composites with Cr3C2 additives. <b>2018</b> , 126, 156-162		1
705	Fabrication and Thermal Structural Characteristics of Ultra-high Temperature Ceramic Struts in Scramjets. <b>2018</b> , 33, 375-380		2
704	Anisotropic slip activation via homogeneous dislocation nucleation in ZrB2 ceramic grains during nanoindentation. <b>2018</b> , 152, 89-93		9
703	Magnetron sputtered HfB <sub>2</sub> /SiC films with controlled electrical conductivity and optical transparency, and with ultrahigh oxidation resistance. <b>2018</b> , 653, 333-340		8
702	Optical characterization of hafnium boride and hafnium carbide-based ceramics for solar energy receivers. <b>2018</b> , 169, 111-119		18
701	Effect of boron content on microstructure and mechanical properties of Ti50Zr50 alloys. <b>2018</b> , 154, 25-31		9
700	Preparation of TaB <sub>2</sub> -SiC oxidation protective coating for carbon materials by liquid phase sintering. <b>2018</b> , 44, 10708-10715		19
699	Low-Temperature Synthesis of Hafnium Diboride Powder Via Magnesiothermic Reduction in Molten Salt. <b>2018</b> , 117-130		
698	Effect of CVD ZrB2 coating thickness on anti-ablation performance of C/SiC composites. <b>2018</b> , 44, 8166-8175		8
697	High-entropy ceramic thin films; A case study on transition metal diborides. <b>2018</b> , 149, 93-97		95
696	Synergistic effects of graphite nano-flakes and submicron SiC particles on the characteristics of spark plasma sintered ZrB2 nanocomposites. <b>2018</b> , 75, 10-17		75
695	Chemical bonding in epitaxial ZrB2 studied by X-ray spectroscopy. <b>2018</b> , 649, 89-96		13
694	Evaluation of oxidation behaviors of HfC-SiC ultra-high temperature ceramics at above 2500 °C via oxyacetylene torch. <b>2018</b> , 44, 8505-8513		10

693	Effect of sintering temperature on electrical properties of SiC/ZrB <sub>2</sub> ceramics. <b>2018</b> , 38, 3083-3088		3
692	A statistical approach towards processing optimization of ZrB <sub>2</sub> /SiC/graphite nanocomposites. Part I: Relative density. <b>2018</b> , 44, 6935-6939		69
691	Development of ZrB <sub>2</sub> ultra high temperature ceramic (UHTC). <b>2018</b> ,		
690	Oxidation behavior of carbon fiber-dispersed ZrB <sub>2</sub> -SiC-ZrC triple phase matrix composites in an oxyhydrogen torch environment. <b>2018</b> , 44, 8387-8396		14
689	Hot pressing and spark plasma sintering techniques of intermetallic matrix composites. <b>2018</b> , 243-302		1
688	ZrB <sub>2</sub> powders with low oxygen content: Synthesis and characterization. <b>2018</b> , 15, 508-513		5
687	The synthesis and characterization of CVD ZrB <sub>2</sub> coating from ZrCl <sub>4</sub> -BCl <sub>3</sub> -H <sub>2</sub> -Ar system. <b>2018</b> , 44, 2002-2010		5
686	Self-propagating mechanosynthesis of HfB <sub>2</sub> nanoparticles by a magnesiothermic reaction. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 1412-1419	3.8	13
685	Oxygen diffusion mechanisms during high-temperature oxidation of ZrB <sub>2</sub> -SiC. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 1765-1779	3.8	16
684	Thermal shock behavior of ZrB <sub>2</sub> -based sharp leading edges evaluated by a novel water spraying method. <b>2018</b> , 44, 2376-2382		21
683	ZrB <sub>2</sub> based novel composite with NiAl as reinforcement phase. <b>2018</b> , 70, 56-65		12
682	Oxidation mechanisms under water vapour conditions of ZrB <sub>2</sub> -SiC and HfB <sub>2</sub> -SiC based materials up to 2400 °C. <b>2018</b> , 38, 421-432		30
681	Tough salami-inspired Cf/ZrB <sub>2</sub> UHTCMCs produced by electrophoretic deposition. <b>2018</b> , 38, 403-409		27
680	Initial oxidation behaviors of ZrB <sub>2</sub> -SiC-ZrC ternary composites above 2000 °C. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 731, 310-317	5.7	32
679	Novel processing approach to polymer-derived ceramic matrix composites. <b>2018</b> , 15, 399-408		18
678	High temperature creep of 20 vol%. SiC-HfB <sub>2</sub> UHTCs up to 2000 °C and the effect of La <sub>2</sub> O <sub>3</sub> addition. <b>2018</b> , 38, 47-56		19
677	Advances in oxidation and ablation resistance of high and ultra-high temperature ceramics modified or coated carbon/carbon composites. <b>2018</b> , 38, 1-28		161
676	Low temperature synthesis of TaB <sub>2</sub> nanorods by molten-salt assisted borothermal reduction. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 45-49	3.8	11

675	Inherent anisotropy in transition metal diborides and microstructure/property tailoring in ultra-high temperature ceramics: A review. <b>2018</b> , 38, 371-389		61
674	Mechanical properties and grain orientation evolution of zirconium diboride-zirconium carbide ceramics. <b>2018</b> , 38, 391-402		19
673	Evaluation of atomic oxygen catalytic coefficient of ZrB <sub>2</sub> SiC by laser-induced fluorescence up to 1473 K. <b>2018</b> , 29, 075207		1
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671	Carbon-content-dependent phase composition, microstructural evolution, and mechanical properties of SiBCN monoliths. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 2137-2154	3.8	2
670	Bonding ZrB <sub>2</sub> -SiC-G ceramics using modified organic adhesive for engineering applications at ultra high temperatures in air. <b>2018</b> , 44, 3810-3815		4
669	Synthesis of fine ZrB <sub>2</sub> powders by solid solution of TaB <sub>2</sub> and their densification and mechanical properties. <b>2018</b> , 44, 4473-4477		12
668	Preparation and properties of a novel precursor-derived Zr-C-B-N composite ceramic via zirconocene and borazine. <b>2018</b> , 44, 4097-4104		4
667	Influence of B <sub>4</sub> C Particle Size on the Synthesis of ZrB <sub>2</sub> by Boro/Carbothermal Reduction Method. <b>2018</b> , 71, 57-65		2
666	Processing and Properties of (Zr,Hf)B <sub>2</sub> -SiC Ceramic Composites. <b>2018</b> , 281, 438-443		1
665	Spontaneous growth of hexagonal ZrB <sub>2</sub> nanoplates driven by a screw dislocation mechanism. <b>2018</b> , 20, 7637-7641		5
664	Spark Plasma Sintering of High-Energy Ball-Milled ZrB <sub>2</sub> and HfB <sub>2</sub> Powders with 20vol% SiC. <b>2018</b> , 941, 1990-1995		
663	Oxidation Resistance of ZrB <sub>2</sub> -SiC-WSi <sub>2</sub> Coating Prepared by Vacuum Plasma Spraying. <b>2018</b> , 281, 522-527		1
662	Synthesis and densification of zirconium diboride prepared by carbothermal reduction. <b>2018</b> , 37, 1076-1081		2
661	Opportunities and challenges in processing and fabrication of ultra high temperature ceramics for hypersonic space vehicles: a case study with ZrB <sub>2</sub> SiC. <b>2018</b> , 117, s2-s8		4
660	Microstructure and tribological performance of ZrB <sub>2</sub> NiCr composite coating deposited by APS. <b>2018</b> , 5, 106510		1
659	Microstructural evolution and performance of carbon fiber-toughened ZrB <sub>2</sub> ceramics with SiC or ZrSi <sub>2</sub> additive. <b>2018</b> , 7, 343-351		15
658	Mechanical and Tribological Behavior of ZrB <sub>2</sub> -TiB <sub>2</sub> System Prepared by Mechanical Activation Spark Plasma Sintering Technique. <b>2018</b> , 27, 6040-6048		5

657	Polymer-Derived Nano-Sized SiC-Containing ZrB <sub>2</sub> Composites: Densification, Microstructure and Flexural Strength. <b>2018</b> , 281, 355-360		2
656	Progress in research and development on matrix modification of continuous fiber-reinforced silicon carbide matrix composites. <b>2018</b> , 1, 685-695		8
655	Synthesis and characterization of (Zr <sub>1/3</sub> Nb <sub>1/3</sub> Ti <sub>1/3</sub> )C metal carbide solid-solution ceramic. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 102, 919	3.8	9
654	Preparation of ZrB <sub>2</sub> -SiC Powders via Carbothermal Reduction of Zircon and Prediction of Product Composition by Back-Propagation Artificial Neural Network. <b>2018</b> , 33, 1062-1069		1
653	Physical and mechanical properties of hot-press sintering ternary CM2A8 (CaMg <sub>2</sub> Al <sub>16</sub> O <sub>27</sub> ) and C2M2A14 (Ca <sub>2</sub> Mg <sub>2</sub> Al <sub>28</sub> O <sub>46</sub> ) ceramics. <b>2018</b> , 7, 229-236		8
652	Electrochemical corrosion behavior of zirconium diboride ceramic in concentrated alkaline solutions. <b>2018</b> , 5, 126302		3
651	Highly-efficient preparation of anisotropic ZrB <sub>2</sub> SiC powders and dense ceramics with outstanding mechanical properties. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 102, 2426	3.8	4
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649	Spark plasma sintering and mechanical properties of compounds in TiB <sub>2</sub> -SiC pseudo-diagram. <b>2018</b> , 44, 22357-22364		8
648	Hafnium the lutetium I used to be. <b>2018</b> , 10, 1074		
647	Iodine-Assisted Solid-State Synthesis and Characterization of Nanocrystalline Zirconium Diboride Nanosheets. <b>2018</b> , 40, 254-258		1
646	Simulation of the thermal shock behavior of ultra-high temperature ceramics with the consideration of temperature-dependent crack propagation criterion and interaction between thermal shock cracks evolution and thermal conduction. <b>2018</b> , 72, 268-274		6
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644	Toward a better conversion in magnesiothermic SHS of zirconium diboride. <b>2018</b> , 53, 13600-13616		6
643	A novel oxidation protective SiC-ZrB <sub>2</sub> -ZrSi <sub>2</sub> coating with mosaic structure for carbon/carbon composites. <b>2018</b> , 44, 14781-14788		9
642	Development of short- and continuous carbon fiber-reinforced ZrB <sub>2</sub> -SiC-ZrC matrix composites for thermal protection systems. <b>2018</b> , 44, 15859-15867		14
641	The response of ZrB <sub>2</sub> to simulated plasma-facing material conditions of He irradiation at high temperature. <b>2018</b> , 507, 112-125		5
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638	Elastic properties of face-centered cubic, body-centered cubic and hexagonal high entropy alloys by MaxEnt approach. <b>2018</b> , 5, 076503		3
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636	Preparation of textured TiB <sub>2</sub> -(Ti,Zr)B <sub>2</sub> composites by gel-casting in a magnetic field of 6 T. <b>2018</b> , 228, 431-434		2
635	Oxidation of ZrB <sub>2</sub> and its composites: a review. <b>2018</b> , 53, 14885-14906		34
634	Joining and machining of (ZrB <sub>2</sub> -SiC) and (Cf-SiC) based composites. <b>2018</b> , 14, 385-395		3
633	Synthesis of Ti <sub>0.2</sub> Zr <sub>0.8</sub> B <sub>2</sub> solid-solution nanopowders by molten salt assisted borothermal reduction. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 4899-4904	3.8	6
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631	High Temperature Coatings for Oxidation and Erosion Protection of Heat-Resistant Carbonaceous Materials in High-Speed Flows. <b>2018</b> , 771, 103-117		10
630	Ablation behavior of C/C-ZrC-SiC composites prepared by reactive melt infiltration under oxyacetylene torch at two heat fluxes. <b>2018</b> , 44, 17345-17358		18
629	Pursuing enhanced oxidation resistance of ZrB <sub>2</sub> ceramics by SiC and WC co-doping. <b>2018</b> , 38, 5311-5318		14
628	Fabrication of ZrB <sub>2</sub> -ZrC composite nanofibers with eutectic composition by electrospinning and carbothermal reduction. <b>2018</b> , 230, 249-252		6
627	Segregation of tungsten atoms at ZrB <sub>2</sub> grain boundaries in strong ZrB <sub>2</sub> -SiC-WC ceramics. <b>2018</b> , 157, 76-80		25
626	In situ synthesis, mechanical properties, and microstructure of reactively hot pressed WB <sub>4</sub> ceramic with Ni as a sintering additive. <b>2018</b> , 44, 19442-19450		5
625	Low-temperature synthesis of ultrafine TiB <sub>2</sub> nanopowders by molten-salt assisted borothermal reduction. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 5299-5303	3.8	12
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622	Microstructure and mechanical properties of Nb-Mo-ZrB <sub>2</sub> composites prepared by hot-pressing sintering. <b>2018</b> , 25, 824-831		3

621	Effects of TaSi <sub>2</sub> addition on room temperature mechanical properties of ZrB <sub>2</sub> -20SiC composites. <b>2018</b> , 44, 16150-16156		13
620	Low temperature synthesis of Titanium diboride by carbothermal method. <b>2018</b> , 44, 19421-19426		6
619	Fabrication of ZrB <sub>2</sub> ceramics by reactive hot pressing of ZrB and B. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 5294-5298	3.8	6
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616	Microstructure of ZrB <sub>2</sub> /rN directionally solidified eutectic composite by arc-melting. <b>2018</b> , 6, 102-107		5
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606	Thermal Expansion of Micro- and Nanocrystalline HfB <sub>2</sub> . <b>2019</b> , 57, 32-36		6
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583	Atom probe tomography field evaporation characteristics and compositional corrections of ZrB <sub>2</sub> . <b>2019</b> , 156, 109871			7
582	Computational and Microstructural Stability Analysis of Shock Wave Interaction with NbB-BC-Based Nanostructured Ceramics. <b>2019</b> , 11, 47491-47500			8
581	Phase stability, hardness and oxidation behaviour of spark plasma sintered ZrB <sub>2</sub> -SiC-Si <sub>3</sub> N <sub>4</sub> composites. <b>2019</b> , 45, 9061-9073			33
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560	Preparation of refractory metal diboride powder by reducing refractory metal oxide with calcium hexaboride. <b>2019</b> , 45, 15772-15777		9
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551	Preparation and properties of dense ZrB <sub>2</sub> composite reinforced by elongated SiC and Al <sub>3</sub> BC <sub>3</sub> grains. <b>2019</b> , 16, 2190-2196		2
550	Effect of WB on oxidation behavior and microstructure evolution of ZrB <sub>2</sub> -SiC coating. <b>2019</b> , 155, 155-163		14

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