Gregory E Hilmas

List of Publications by Citations

157 papers	9,029 citations	46 h-index	93 g-index
166 ext. papers	10,264 ext. citations	4.8 avg, IF	6.59 L-index

#	Paper	IF	Citations
157	Refractory Diborides of Zirconium and Hafnium. *Journal of the American Ceramic Society*, **2007**, 90, 1347-1364	3.8	1444
156	High-Strength Zirconium Diboride-Based Ceramics. *Journal of the American Ceramic Society*, **2004**, 87, 1170-1172	3.8	652
155	Ultra-high temperature ceramics: Materials for extreme environments. *Scripta Materialia*, **2017**, 129, 94-99	5.6	318
154	Evolution of structure during the oxidation of zirconium diboride–silicon carbide in air up to 1500 °C. *Journal of the European Ceramic Society*, **2007**, 27, 2495-2501	6	313
153	Pressureless Densification of Zirconium Diboride with Boron Carbide Additions. *Journal of the American Ceramic Society*, **2006**, 89, 1544-1550	3.8	262
152	Pressureless Sintering of Zirconium Diboride. *Journal of the American Ceramic Society*, **2006**, 89, 450-456	3.8	253
151	Influence of silicon carbide particle size on the microstructure and mechanical properties of zirconium diboride–silicon carbide ceramics. *Journal of the European Ceramic Society*, **2007**, 27, 2077-2083	6	250
150	Thermophysical Properties of ZrB2 and ZrB2–SiC Ceramics. *Journal of the American Ceramic Society*, **2008**, 91, 1405-1411	3.8	235
149	Effect of hot pressing time and temperature on the microstructure and mechanical properties of ZrB2–SiC. *Journal of Materials Science*, **2007**, 42, 2735-2744	4.3	214
148	Pressureless Sintering of Zirconium Diboride: Particle Size and Additive Effects. *Journal of the American Ceramic Society*, **2008**, 91, 1398-1404	3.8	158
147	Thermal shock resistance of ZrB2 and ZrB2–30% SiC. *Materials Chemistry and Physics*, **2008**, 112, 140-145	4.4	157
146	Oxidation of ultra-high temperature transition metal diboride ceramics. *International Materials Reviews*, **2012**, 57, 61-72	16.1	152
145	Mechanical properties of bioactive glass (13-93) scaffolds fabricated by robotic deposition for structural bone repair. *Acta Biomaterialia*, **2013**, 9, 7025-34	10.8	146
144	Pressureless sintering of carbon-coated zirconium diboride powders. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 459, 167-171	5.3	136
143	Pressureless Sintering of Zirconium Diboride Using Boron Carbide and Carbon Additions. *Journal of the American Ceramic Society*, **2007**, 90, 3660-3663	3.8	134
142	Oxidation of Zirconium Diboride–Silicon Carbide at 1500 °C at a Low Partial Pressure of Oxygen. *Journal of the American Ceramic Society*, **2006**, 89, 3240-3245	3.8	134
141	Pressureless sintering of carbon nanotube–Al2O3 composites. *Journal of the European Ceramic Society*, **2010**, 30, 1373-1380	6	120

140	Hot Pressing of Tantalum Carbide With and Without Sintering Additives. *Journal of the American Ceramic Society*, **2007**, 90, 393-401	3.8	120
139	Pressureless Sintering of ZrB2–SiC Ceramics. *Journal of the American Ceramic Society*, **2007**, 91, 26-32	3.8	120
138	Low-Temperature Densification of Zirconium Diboride Ceramics by Reactive Hot Pressing. *Journal of the American Ceramic Society*, **2006**, 89, 3638-3645	3.8	110
137	Mechanical behavior of zirconium diboride–silicon carbide–boron carbide ceramics up to 2200 °C. *Journal of the European Ceramic Society*, **2015**, 35, 463-476	6	101
136	Fabrication of 13-93 bioactive glass scaffolds for bone tissue engineering using indirect selective laser sintering. *Biofabrication*, **2011**, 3, 025004	10.5	101
135	Fabrication and properties of reactively hot pressed ZrB2–SiC ceramics. *Journal of the European Ceramic Society*, **2007**, 27, 2729-2736	6	101
134	Synthesis of single-phase high-entropy carbide powders. *Scripta Materialia*, **2019**, 162, 90-93	5.6	98
133	Synthesis, densification, and mechanical properties of TaB2. *Materials Letters*, **2008**, 62, 4251-4253	3.3	95
132	Mechanical vs. electrical failure mechanisms in high voltage, high energy density multilayer ceramic capacitors. *Journal of Materials Science*, **2007**, 42, 5613-5619	4.3	91
131	Densification and mechanical properties of TaC-based ceramics. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2009**, 501, 37-43	5.3	90
130	Strength of Zirconium Diboride to 2300°C. *Journal of the American Ceramic Society*, **2013**, 96, 47-50	3.8	88
129	Mechanical properties of sintered ZrB2–SiC ceramics. *Journal of the European Ceramic Society*, **2011**, 31, 893-901	6	86
128	Improved Oxidation Resistance of Zirconium Diboride by Tungsten Carbide Additions. *Journal of the American Ceramic Society*, **2008**, 91, 3530-3535	3.8	86
127	Reactive hot pressing of zirconium diboride. *Journal of the European Ceramic Society*, **2009**, 29, 3401-3408	6	82
126	Densification, Mechanical Properties, and Oxidation Resistance of TaC–TaB2 Ceramics. *Journal of the American Ceramic Society*, **2008**, 91, 4129-4132	3.8	80
125	Mechanical behavior of zirconium diboride–silicon carbide ceramics at elevated temperature in air. *Journal of the European Ceramic Society*, **2013**, 33, 2889-2899	6	78
124	Effect of material, process parameters, and simulated body fluids on mechanical properties of 13-93 bioactive glass porous constructs made by selective laser sintering. *Journal of the Mechanical Behavior of Biomedical Materials*, **2012**, 13, 14-24	4.1	73
123	Microwave sintering of a ZrB2–B4C particulate ceramic composite. *Composites Part A: Applied Science and Manufacturing*, **2008**, 39, 449-453	8.4	64

122	Enhanced densification and mechanical properties of ZrB2SiC processed by a preceramic polymer coating route. *Scripta Materialia*, **2008**, 59, 123-126	5.6	62
121	Low-temperature sintering of single-phase, high-entropy carbide ceramics. *Journal of the American Ceramic Society*, **2019**, 102, 7217-7224	3.8	61
120	Aqueous-based freeze-form extrusion fabrication of alumina components. *Rapid Prototyping Journal*, **2009**, 15, 88-95	3.8	57
119	Microstructure and mechanical characterization of ZrCMo cermets produced by hot isostatic pressing. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 497, 79-86	5.3	57
118	A novel freeform extrusion fabrication process for producing solid ceramic components with uniform layered radiation drying. *Additive Manufacturing*, **2017**, 15, 102-112	6.1	56
117	Temperature Jump Phenomenon During Plasmatron Testing of ZrB2-SiC Ultrahigh-Temperature Ceramics. *Journal of Thermophysics and Heat Transfer*, **2012**, 26, 559-572	1.3	55
116	Freeze-form extrusion fabrication of ceramic parts. *Virtual and Physical Prototyping*, **2006**, 1, 93-100	10.1	55
115	A Novel Approach to Developing Biomimetic ("Nacre-Like") Metal-Compliant-Phase (Nickel-Alumina) Ceramics through Coextrusion. *Advanced Materials*, **2016**, 28, 10061-10067	24	53
114	Freeze-form extrusion fabrication of functionally graded materials. *CIRP Annals - Manufacturing Technology*, **2012**, 61, 223-226	4.9	49
113	Silicon carbideitanium diboride ceramic composites. *Journal of the European Ceramic Society*, **2013**, 33, 2943-2951	6	48
112	Aqueous-based extrusion of high solids loading ceramic pastes: Process modeling and control. *Journal of Materials Processing Technology*, **2009**, 209, 2946-2957	5.3	47
111	Zirconium Diboride with High Thermal Conductivity. *Journal of the American Ceramic Society*, **2014**, 97, 1689-1691	3.8	44
110	Thermal Properties of (Zr,TM)B2 Solid Solutions with TMHf, Nb, W, Ti, and Y. *Journal of the American Ceramic Society*, **2014**, 97, 1552-1558	3.8	44
109	Additive manufacturing and mechanical characterization of high density fully stabilized zirconia. *Ceramics International*, **2017**, 43, 6082-6088	5.1	42
108	Oxidation of ZrB2-SiC Ultrahigh-Temperature Ceramic Composites in Dissociated Air. *Journal of Thermophysics and Heat Transfer*, **2009**, 23, 267-278	1.3	42
107	Ultra-High Temperature Mechanical Properties of a Zirconium Diborideirconium Carbide Ceramic. *Journal of the American Ceramic Society*, **2016**, 99, 597-603	3.8	42
106	Microstructural Changes in Silicon Nitride Grains upon Crystallizing the Grain-Boundary Glass. *Journal of the American Ceramic Society*, **1989**, 72, 1931-1937	3.8	41
105	The effect of a graphite addition on oxidation of ZrB2SiC in air at 1500 C. *Journal of the European Ceramic Society*, **2013**, 33, 413-421	6	39

104	Oxidation of Zirconium Diboride with Tungsten Carbide Additions. *Journal of the American Ceramic Society*, **2011**, 94, 1198-1205	3.8	39
103	Dispersion of Zirconium Diboride in an Aqueous, High-Solids Paste. *International Journal of Applied Ceramic Technology*, **2007**, 4, 470-479	2	39
102	Behavior of a composite multidisk clutch subjected to mechanical and frictionally excited thermal load. *Wear*, **2008**, 264, 1059-1068	3.5	39
101	Mechanical behaviour of carbon fibre reinforced TaC/SiC and ZrC/SiC composites up to 2100°C. *Journal of the European Ceramic Society*, **2019**, 39, 780-787	6	38
100	Effect of a weak fiber interface coating in ZrB2 reinforced with long SiC fibers. *Materials and Design* , **2015**, 88, 610-618	8.1	36
99	Sintering Mechanisms and Kinetics for Reaction Hot-Pressed ZrB2. *Journal of the American Ceramic Society*, **2015**, 98, 2344-2351	3.8	33
98	Characterization of zirconia specimens fabricated by ceramic on-demand extrusion. *Ceramics International*, **2018**, 44, 12245-12252	5.1	32
97	Processing of ZrC–Mo Cermets for High-Temperature Applications, Part I: Chemical Interactions in the ZrC–Mo System. *Journal of the American Ceramic Society*, **2007**, 90, 1998-2002	3.8	32
96	A study of size effects in bioinspired, nacre-like, metal-compliant-phase (nickel-alumina) coextruded ceramics. *Acta Materialia*, **2018**, 148, 147-155	8.4	30
95	Processing of ZrC–Mo Cermets for High Temperature Applications, Part II: Pressureless Sintering and Mechanical Properties. *Journal of the American Ceramic Society*, **2008**, 91, 873-878	3.8	29
94	Densification Behavior and Microstructure Evolution of Hot-Pressed HfB2. *Journal of the American Ceramic Society*, **2011**, 94, 49-58	3.8	28
93	Thermal Shock Resistance and Fracture Behavior of ZrB2-Based Fibrous Monolith Ceramics. *Journal of the American Ceramic Society*, **2009**, 92, 161-166	3.8	28
92	Processing, microstructure, and mechanical properties of zirconium diboride-boron carbide ceramics. *Ceramics International*, **2017**, 43, 6942-6948	5.1	26
91	Fabricating ceramic components with water dissolvable support structures by the Ceramic On-Demand Extrusion process. *CIRP Annals - Manufacturing Technology*, **2017**, 66, 225-228	4.9	26
90	Plasma arc welding of ZrB2–20vol% ZrC ceramics. *Journal of the European Ceramic Society*, **2014**, 34, 3549–3557		26
89	Microstructural Evolution in Near-Eutectic Yttrium Silicate Compositions Fabricated from a Bulk Melt and as an Intergranular Phase in Silicon Nitride. *Journal of the American Ceramic Society*, **1990**, 73, 3575-3579	3.8	26
88	Titanium diboride–silicon carbide–boron carbide ceramics with super-high hardness and strength. *Journal of the American Ceramic Society*, **2018**, 101, 497-501	3.8	25
87	Superhard Boride–Carbide Particulate Composites. *Journal of the American Ceramic Society*, **2010**, 93, 3580-3583	3.8	25

86	Two-step synthesis process for high-entropy diboride powders. *Journal of the American Ceramic Society*, **2020**, 103, 724-730	3.8	25
85	Processing, microstructure, and mechanical properties of large-grained zirconium diboride ceramics. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 670, 196-204	5.3	24
84	Thermal Properties of Hf-Doped ZrB2 Ceramics. *Journal of the American Ceramic Society*, **2015**, 98, 2689-2691	3.8	24
83	Processing of dense high-entropy boride ceramics. *Journal of the European Ceramic Society*, **2020**, 40, 3815-3823	6	22
82	Investigation of laser sintering for freeform fabrication of zirconium diboride parts. *Virtual and Physical Prototyping*, **2012**, 7, 25-36	10.1	21
81	Mechanical characterization of parts produced by ceramic on-demand extrusion process. *International Journal of Applied Ceramic Technology*, **2017**, 14, 486-494	2	20
80	New insights into the structure, chemistry, and properties of Cu4SnS4. *Journal of Solid State Chemistry*, **2017**, 253, 192-201	3.3	20
79	Influence of fibre content on the strength of carbon fibre reinforced HfC/SiC composites up to 2100 °C. *Journal of the European Ceramic Society*, **2019**, 39, 3594-3603	6	20
78	Hybrid Extrusion Force-Velocity Control Using Freeze-Form Extrusion Fabrication for Functionally Graded Material Parts. *Journal of Manufacturing Science and Engineering, Transactions of the ASME*, **2013**, 135,	3.3	20
77	Thermal properties and thermal shock resistance of liquid phase sintered ZrC–Mo cermets. *Materials Chemistry and Physics*, **2009**, 115, 690-695	4.4	20
76	Coextrusion of Zirconia–Iron Oxide Honeycomb Substrates for Solar-Based Thermochemical Generation of Carbon Monoxide for Renewable Fuels. *Energy & Fuels*, **2012**, 26, 712-721	4.1	19
75	Oxidation of zirconium diboride with niobium additions. *Journal of the European Ceramic Society*, **2013**, 33, 1591-1598	6	18
74	Optical Emission Spectroscopy During Plasmatron Testing of ZrB2-SiC Ultrahigh-Temperature Ceramic Composites. *Journal of Thermophysics and Heat Transfer*, **2009**, 23, 279-285	1.3	18
73	ZrB2-MoSi2 ceramics: A comprehensive overview of microstructure and properties relationships. Part I: Processing and microstructure. *Journal of the European Ceramic Society*, **2019**, 39, 1939-1947	6	18
72	Thermal Properties of (Zr, TM)B2 Solid Solutions with TM = Ta, Mo, Re, V, and Cr. *Journal of the American Ceramic Society*, **2015**, 98, 637-644	3.8	17
71	Effect of carbon on the thermal and electrical transport properties of zirconium diboride. *Journal of the European Ceramic Society*, **2015**, 35, 887-896	6	16
70	Slip activation controlled nanohardness anisotropy of ZrB2 ceramic grains. *Acta Materialia*, **2017**, 140, 452-464	8.4	16
69	Microstructural Effects on the Mechanical Properties of SiC-15 vol% TiB2 Particulate-Reinforced Ceramic Composites. *Journal of the American Ceramic Society*, **2013**, 96, 577-583	3.8	16

68	A simple route to fabricate strong boride hierarchical composites for use at ultra-high temperature. *Composites Part B: Engineering*, **2020**, 183, 107618	10	16
67	Elevated Temperature Strength Enhancement of ZrB2–30 vol% SiC Ceramics by Postsintering Thermal Annealing. *Journal of the American Ceramic Society*, **2016**, 99, 962-970	3.8	16
66	The irradiation response of ZrC ceramics under 10 MeV Au3+ ion irradiation at 800 °C. *Journal of the European Ceramic Society*, **2020**, 40, 1791-1800	6	15
65	A modified phase-field model for quantitative simulation of crack propagation in single-phase and multi-phase materials. *Engineering Fracture Mechanics*, **2018**, 200, 339-354	4.2	15
64	Plasma Arc Welding of TiB2–10vol% TiC. *Journal of the American Ceramic Society*, **2014**, 97, 56-59	3.8	15
63	Effect of Carbon and Oxygen on the Densification and Microstructure of Hot Pressed Zirconium Diboride. *Journal of the American Ceramic Society*, **2013**, 96, 3622-3630	3.8	15
62	Reaction Processing of Ultra-High Temperature W/Ta2C-Based Cermets. *Journal of the American Ceramic Society*, **2009**, 92, 1966-1971	3.8	15
61	Numerical simulation of wear in a C/C composite multidisk clutch. *Carbon*, **2009**, 47, 2219-2225	10.4	15
60	Processing of Carbon Nanofiber Reinforced ZrB2 Matrix Composites for Aerospace Applications. *Advanced Engineering Materials*, **2010**, 12, 623-626	3.5	15
59	Densification behavior of ZrB2-MoSi2 ceramics: The formation and evolution of core-shell solid solution structures. *Journal of Alloys and Compounds*, **2019**, 779, 950-961	5.7	15
58	Densification, microstructure, and mechanical properties of ZrC–SiC ceramics. *Journal of the American Ceramic Society*, **2019**, 102, 5786-5795	3.8	14
57	Thermal Shock Resistance of an AlN–BN–SiC Ceramic. *Journal of the American Ceramic Society*, **2009**, 92, 1358-1361	3.8	13
56	Mechanical properties of reactively processed W/Ta2C-based composites. *Journal of the European Ceramic Society*, **2010**, 30, 2197-2201	6	13
55	Mechanical and thermal properties of AlN–BN–SiC ceramics. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 494, 239-246	5.3	13
54	Synthesis of ZrCx with controlled carbon stoichiometry by low temperature solid state reaction. *Journal of the European Ceramic Society*, **2019**, 39, 2594-2600	6	12
53	Binderless WC with high strength and toughness up to 1500 °C. *Journal of the European Ceramic Society*, **2020**, 40, 2287-2294	6	12
52	Densification Behavior and Thermal Properties of Hafnium Diboride with the Addition of Boron Carbides. *Journal of the American Ceramic Society*, **2012**, 95, 2035-2043	3.8	11
51	Mechanical Properties of Zirconium-Diboride Based UHTCs **2014**, 167-196		11

50	Effect of AlN and Al2O3 additions on the phase relationships and morphology of SiC Part I Compositions and properties. *Journal of Materials Science*, **1999**, 34, 5605-5612	4.3	11
49	ZrB2-MoSi2 ceramics: A comprehensive overview of microstructure and properties relationships. Part II: Mechanical properties. *Journal of the European Ceramic Society*, **2019**, 39, 1948-1954	6	11
48	Oxidation of ZrB2 and ZrB2-SiC Ceramics with Tungsten Additions. *ECS Transactions*, **2009**, 16, 137-145	1	10
47	High-temperature damage-tolerance of coextruded, bioinspired (□nacre-like□) alumina/nickel compliant-phase ceramics. *Scripta Materialia*, **2019**, 158, 110-115	5.6	10
46	Predicting effective fracture toughness of ZrB2-based ultra-high temperature ceramics by phase-field modeling. *Materials and Design*, **2020**, 192, 108713	8.1	10
45	Effects of Ti, Y, and Hf additions on the thermal properties of ZrB2. *Journal of the European Ceramic Society*, **2020**, 40, 3824-3828	6	9
44	Solidification of welded SiC□ZrB2□ZrC ceramics. *Journal of the American Ceramic Society*, **2018**, 101, 4331-4339	3.8	8
43	Escape from the strength-to-toughness paradox: Bulk ceramics through dual composite architectures. *Journal of the European Ceramic Society*, **2018**, 38, 2961-2970	6	8
42	Carbon vacancy ordering in zirconium carbide powder. *Journal of the American Ceramic Society*, **2020**, 103, 2891-2898	3.8	8
41	Effect of ZrB2 content on the densification, microstructure, and mechanical properties of ZrC-SiC ceramics. *Journal of the European Ceramic Society*, **2020**, 40, 220-225	6	8
40	Extrusion-based additive manufacturing of functionally graded ceramics. *Journal of the European Ceramic Society*, **2021**, 41, 2049-2057	6	8
39	Effect of Nb content on the phase composition, densification, microstructure, and mechanical properties of high-entropy boride ceramics. *Journal of the European Ceramic Society*, **2021**, 41, 92-100	6	8
38	Factorial design to minimize residual oxygen in reaction hot-pressed zirconium diboride. *International Journal of Applied Ceramic Technology*, **2017**, 14, 636-643	2	7
37	A high strength alumina-silicon carbide-boron carbide triplex ceramic. *Ceramics International*, **2017**, 43, 7958-7962	5.1	7
36	Elevated Temperature Thermal Properties of ZrB2 with Carbon Additions. *Journal of the American Ceramic Society*, **2012**, 95, n/a-n/a	3.8	7
35	Freeform extrusion fabrication of titanium fiber reinforced 13-93 bioactive glass scaffolds. *Journal of the Mechanical Behavior of Biomedical Materials*, **2017**, 69, 153-162	4.1	6
34	Microstructure and mechanical properties of reaction-hot-pressed zirconium diboride based ceramics. *International Journal of Applied Ceramic Technology*, **2019**, 16, 1715-1722	2	6
33	Processing and thermal properties of an Mo5Si3C□SiC ceramic. *Intermetallics*, **2008**, 16, 854-859	3.5	6

32	Characterization of fusion welded ceramics in the SiC-ZrB2-ZrC system. *Journal of the European Ceramic Society*, **2021**, 41, 2255-2262	6	6
31	Superhard high-entropy AlB2-type diboride ceramics. *Scripta Materialia*, **2021**, 199, 113855	5.6	6
30	Effect of moisture on the oxidation behavior of ZrB2. *Journal of the American Ceramic Society*, **2021**, 104, 1058-1066	3.8	6
29	From thermal conductive to thermal insulating: Effect of carbon vacancy content on lattice thermal conductivity of ZrC. *Journal of Materials Science and Technology*, **2021**, 82, 105-113	9.1	6
28	Strength of functionally designed cellular cemented carbides produced by coextrusion. *Journal of Materials Science*, **2006**, 41, 8367-8371	4.3	5
27	Solute distributions in tantalum-containing zirconium diboride ceramics. *Journal of the American Ceramic Society*, **2020**, 103, 2880-2890	3.8	5
26	Response of isotopically tailored titanium diboride to neutron irradiation. *Journal of the American Ceramic Society*, **2019**, 102, 85-89	3.8	5
25	Additive manufacturing of zirconia parts with organic sacrificial supports. *International Journal of Applied Ceramic Technology*, **2020**, 17, 1544-1553	2	4
24	Thermal properties and elastic constants of □Ta4C3□. *Journal of the American Ceramic Society*, **2020**, 103, 2986-2990	3.8	4
23	Freeform extrusion fabrication of titanium fiber reinforced 13-93 bioactive glass scaffolds. *Journal of the Mechanical Behavior of Biomedical Materials*, **2017**, 70, 43-52	4.1	3
22	Elevated temperature electrical resistivity measurements of zirconium diboride using the van der Pauw Method. *Journal of the American Ceramic Society*, **2019**, 102, 7397-7404	3.8	3
21	Synthesis, densification, microstructure, and mechanical properties of samarium hexaboride ceramic. *Journal of the American Ceramic Society*, **2019**, 102, 1379-1385	3.8	3
20	Modeling of Thermal and Mechanical Behavior of ZrB2-SiC Ceramics after High Temperature Oxidation. *Journal of Ceramics*, **2014**, 2014, 1-9		3
19	Advances in the Fabrication of Functionally Graded Materials Using Extrusion Freeform Fabrication **1997**, 319-324		3
18	Thermal properties of a reaction hot pressed Mo□Si3C□ ceramic. *Intermetallics*, **2008**, 16, 1047-1052	3.5	3
17	Mechanical properties of borothermally synthesized zirconium diboride at elevated temperatures. *International Journal of Applied Ceramic Technology*, **2021**, 18, 1235-1243	2	2
16	Electronic structure and thermal conductivity of zirconium carbide with hafnium additions. *Journal of the American Ceramic Society*, **2021**, 104, 4708-4717	3.8	2
15	Zirconium diboride laminates for improved damage tolerance at elevated temperatures. *International Journal of Applied Ceramic Technology*, **2021**, 18, 1845-1852	2	2

14	Effect of tantalum solid solution additions on the mechanical behavior of ZrB2. *Journal of the European Ceramic Society*, **2021**, 41, 3219-3226	6	2
13	Processing and room temperature mechanical properties of a zirconium carbide ceramic. *Journal of the American Ceramic Society*, **2021**, 104, 413-418	3.8	2
12	Thermal Conductivity of ZrB2 and HfB2 **2014**, 197-235		1
11	Modeling of Oxidation Effects on Heat Transfer Behavior of ZrB2 and ZrB2-SiC Ceramics at High Temperature **2012**,		1
10	Measurement of the melting temperature of ZrB2 as determined by laser heating and spectrometric analysis. *Journal of the American Ceramic Society*, **2021**, 104, 2780-2787	3.8	1
9	Thermal and electrical properties of a high entropy carbide (Ta, Hf, Nb, Zr) at elevated temperatures. *Journal of the American Ceramic Society*, **2022**, 105, 4426-4434	3.8	1
8	High-entropy boride□carbide ceramics by sequential boro/carbothermal synthesis. *Journal of the American Ceramic Society*,	3.8	1
7	Solid-state formation mechanisms of core□shell microstructures in (Zr,Ta)B 2 ceramics. *Journal of the American Ceramic Society*,	3.8	0
6	Mechanical properties of fusion welded ceramics in the SiC-ZrB2 and SiC-ZrB2-ZrC systems. *Journal of the European Ceramic Society*, **2022**, 42, 2107-2117	6	0
5	Processing, microstructure, and mechanical properties of hot-pressed ZrB2 ceramics with a complex Zr/Si/O-based additive. *International Journal of Applied Ceramic Technology*, **2021**, 18, 2224	2	0
4	Thermal properties of ZrB2-TiB2 solid solutions. *Journal of the European Ceramic Society*, **2021**, 41, 7434-7434	6	0
3	Superhard single-phase (Ti,Cr)B 2 ceramics. *Journal of the American Ceramic Society*,	3.8	0
2	Simulation of Thermal and Mechanical Response of (Zr,W)B2 Ceramic after Oxidation. *Applied Mechanics and Materials*, **2013**, 446-447, 40-44	0.3	
1	Mechanical Behavior in Compression and Flexure of Bioactive Glass (13-93) Scaffolds Prepared by Robotic Deposition. *Ceramic Transactions*,37-46	0.1	