

Gregory E Hilmas

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.

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	Mechanical properties of fusion welded ceramics in the SiC-ZrB ₂ and SiC-ZrB ₂ -ZrC systems. <i>Journal of the European Ceramic Society</i> , 2022 , 42, 2107-2117	6	0
156	Thermal and electrical properties of a high entropy carbide (Ta, Hf, Nb, Zr) at elevated temperatures. <i>Journal of the American Ceramic Society</i> , 2022 , 105, 4426-4434	3.8	1
155	Characterization of fusion welded ceramics in the SiC-ZrB ₂ -ZrC system. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 2255-2262	6	6
154	Mechanical properties of borothermally synthesized zirconium diboride at elevated temperatures. <i>International Journal of Applied Ceramic Technology</i> , 2021 , 18, 1235-1243	2	2
153	Electronic structure and thermal conductivity of zirconium carbide with hafnium additions. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 4708-4717	3.8	2
152	Zirconium diboride laminates for improved damage tolerance at elevated temperatures. <i>International Journal of Applied Ceramic Technology</i> , 2021 , 18, 1845-1852	2	2
151	Effect of tantalum solid solution additions on the mechanical behavior of ZrB ₂ . <i>Journal of the European Ceramic Society</i> , 2021 , 41, 3219-3226	6	2
150	Superhard high-entropy AlB ₂ -type diboride ceramics. <i>Scripta Materialia</i> , 2021 , 199, 113855	5.6	6
149	Effect of moisture on the oxidation behavior of ZrB ₂ . <i>Journal of the American Ceramic Society</i> , 2021 , 104, 1058-1066	3.8	6
148	Extrusion-based additive manufacturing of functionally graded ceramics. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 2049-2057	6	8
147	Effect of Nb content on the phase composition, densification, microstructure, and mechanical properties of high-entropy boride ceramics. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 92-100	6	8
146	Processing and room temperature mechanical properties of a zirconium carbide ceramic. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 413-418	3.8	2
145	Measurement of the melting temperature of ZrB ₂ as determined by laser heating and spectrometric analysis. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 2780-2787	3.8	1
144	From thermal conductive to thermal insulating: Effect of carbon vacancy content on lattice thermal conductivity of ZrC. <i>Journal of Materials Science and Technology</i> , 2021 , 82, 105-113	9.1	6
143	Processing, microstructure, and mechanical properties of hot-pressed ZrB ₂ ceramics with a complex Zr/Si/O-based additive. <i>International Journal of Applied Ceramic Technology</i> , 2021 , 18, 2224	2	0
142	Thermal properties of ZrB ₂ -TiB ₂ solid solutions. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 7434-7434	0	0
141	Effects of Ti, Y, and Hf additions on the thermal properties of ZrB ₂ . <i>Journal of the European Ceramic Society</i> , 2020 , 40, 3824-3828	6	9

140	Binderless WC with high strength and toughness up to 1500 °C. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 2287-2294	6	12
139	The irradiation response of ZrC ceramics under 10 MeV Au ³⁺ ion irradiation at 800 °C. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 1791-1800	6	15
138	Processing of dense high-entropy boride ceramics. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 3815-3823	6	22
137	Additive manufacturing of zirconia parts with organic sacrificial supports. <i>International Journal of Applied Ceramic Technology</i> , 2020 , 17, 1544-1553	2	4
136	Two-step synthesis process for high-entropy diboride powders. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 724-730	3.8	25
135	Thermal properties and elastic constants of $\text{Ta}_4\text{C}_3\text{B}$. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 2986-2990	3.8	4
134	Solute distributions in tantalum-containing zirconium diboride ceramics. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 2880-2890	3.8	5
133	Carbon vacancy ordering in zirconium carbide powder. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 2891-2898	3.8	8
132	A simple route to fabricate strong boride hierarchical composites for use at ultra-high temperature. <i>Composites Part B: Engineering</i> , 2020 , 183, 107618	10	16
131	Effect of ZrB ₂ content on the densification, microstructure, and mechanical properties of ZrC-SiC ceramics. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 220-225	6	8
130	Predicting effective fracture toughness of ZrB ₂ -based ultra-high temperature ceramics by phase-field modeling. <i>Materials and Design</i> , 2020 , 192, 108713	8.1	10
129	Elevated temperature electrical resistivity measurements of zirconium diboride using the van der Pauw Method. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 7397-7404	3.8	3
128	Densification, microstructure, and mechanical properties of ZrC-BiC ceramics. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 5786-5795	3.8	14
127	Microstructure and mechanical properties of reaction-hot-pressed zirconium diboride based ceramics. <i>International Journal of Applied Ceramic Technology</i> , 2019 , 16, 1715-1722	2	6
126	Influence of fibre content on the strength of carbon fibre reinforced HfC/SiC composites up to 2100 °C. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 3594-3603	6	20
125	Synthesis of ZrC _x with controlled carbon stoichiometry by low temperature solid state reaction. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 2594-2600	6	12
124	Synthesis, densification, microstructure, and mechanical properties of samarium hexaboride ceramic. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 1379-1385	3.8	3
123	Low-temperature sintering of single-phase, high-entropy carbide ceramics. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 7217-7224	3.8	61

122	High-temperature damage-tolerance of coextruded, bioinspired (bacre-like) alumina/nickel compliant-phase ceramics. <i>Scripta Materialia</i> , 2019 , 158, 110-115	5.6	10
121	Response of isotopically tailored titanium diboride to neutron irradiation. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 85-89	3.8	5
120	Synthesis of single-phase high-entropy carbide powders. <i>Scripta Materialia</i> , 2019 , 162, 90-93	5.6	98
119	Mechanical behaviour of carbon fibre reinforced TaC/SiC and ZrC/SiC composites up to 2100°C. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 780-787	6	38
118	Densification behavior of ZrB ₂ -MoSi ₂ ceramics: The formation and evolution of core-shell solid solution structures. <i>Journal of Alloys and Compounds</i> , 2019 , 779, 950-961	5.7	15
117	ZrB ₂ -MoSi ₂ ceramics: A comprehensive overview of microstructure and properties relationships. Part II: Mechanical properties. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 1948-1954	6	11
116	ZrB ₂ -MoSi ₂ ceramics: A comprehensive overview of microstructure and properties relationships. Part I: Processing and microstructure. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 1939-1947	6	18
115	Characterization of zirconia specimens fabricated by ceramic on-demand extrusion. <i>Ceramics International</i> , 2018 , 44, 12245-12252	5.1	32
114	Solidification of welded SiC/ZrB ₂ /ZrC ceramics. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 4331-4339	4.3	8
113	A study of size effects in bioinspired, bacre-like metal-compliant-phase (nickel-alumina) coextruded ceramics. <i>Acta Materialia</i> , 2018 , 148, 147-155	8.4	30
112	Escape from the strength-to-toughness paradox: Bulk ceramics through dual composite architectures. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 2961-2970	6	8
111	Titanium diboride-silicon carbide-boron carbide ceramics with super-high hardness and strength. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 497-501	3.8	25
110	A modified phase-field model for quantitative simulation of crack propagation in single-phase and multi-phase materials. <i>Engineering Fracture Mechanics</i> , 2018 , 200, 339-354	4.2	15
109	Additive manufacturing and mechanical characterization of high density fully stabilized zirconia. <i>Ceramics International</i> , 2017 , 43, 6082-6088	5.1	42
108	Freeform extrusion fabrication of titanium fiber reinforced 13-93 bioactive glass scaffolds. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017 , 69, 153-162	4.1	6
107	Processing, microstructure, and mechanical properties of zirconium diboride-boron carbide ceramics. <i>Ceramics International</i> , 2017 , 43, 6942-6948	5.1	26
106	Mechanical characterization of parts produced by ceramic on-demand extrusion process. <i>International Journal of Applied Ceramic Technology</i> , 2017 , 14, 486-494	2	20
105	Factorial design to minimize residual oxygen in reaction hot-pressed zirconium diboride. <i>International Journal of Applied Ceramic Technology</i> , 2017 , 14, 636-643	2	7

104	A novel freeform extrusion fabrication process for producing solid ceramic components with uniform layered radiation drying. <i>Additive Manufacturing</i> , 2017 , 15, 102-112	6.1	56
103	Freeform extrusion fabrication of titanium fiber reinforced 13-93 bioactive glass scaffolds. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017 , 70, 43-52	4.1	3
102	Fabricating ceramic components with water dissolvable support structures by the Ceramic On-Demand Extrusion process. <i>CIRP Annals - Manufacturing Technology</i> , 2017 , 66, 225-228	4.9	26
101	New insights into the structure, chemistry, and properties of Cu ₄ SnS ₄ . <i>Journal of Solid State Chemistry</i> , 2017 , 253, 192-201	3.3	20
100	A high strength alumina-silicon carbide-boron carbide triplex ceramic. <i>Ceramics International</i> , 2017 , 43, 7958-7962	5.1	7
99	Slip activation controlled nanohardness anisotropy of ZrB ₂ ceramic grains. <i>Acta Materialia</i> , 2017 , 140, 452-464	8.4	16
98	Ultra-high temperature ceramics: Materials for extreme environments. <i>Scripta Materialia</i> , 2017 , 129, 94-99	5.6	318
97	Processing, microstructure, and mechanical properties of large-grained zirconium diboride ceramics. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 670, 196-204	5.3	24
96	Ultra-High Temperature Mechanical Properties of a Zirconium Diboride-Zirconium Carbide Ceramic. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 597-603	3.8	42
95	Elevated Temperature Strength Enhancement of ZrB ₂ -30 vol% SiC Ceramics by Postsintering Thermal Annealing. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 962-970	3.8	16
94	A Novel Approach to Developing Biomimetic ("Nacre-Like") Metal-Compliant-Phase (Nickel-Alumina) Ceramics through Coextrusion. <i>Advanced Materials</i> , 2016 , 28, 10061-10067	24	53
93	Thermal Properties of (Zr, TM)B ₂ Solid Solutions with TM = Ta, Mo, Re, V, and Cr. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 637-644	3.8	17
92	Effect of carbon on the thermal and electrical transport properties of zirconium diboride. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 887-896	6	16
91	Mechanical behavior of zirconium diboride-silicon carbide-boron carbide ceramics up to 2200 °C. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 463-476	6	101
90	Effect of a weak fiber interface coating in ZrB ₂ reinforced with long SiC fibers. <i>Materials and Design</i> , 2015 , 88, 610-618	8.1	36
89	Thermal Properties of Hf-Doped ZrB ₂ Ceramics. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 2689-2691	3.6	24
88	Sintering Mechanisms and Kinetics for Reaction Hot-Pressed ZrB ₂ . <i>Journal of the American Ceramic Society</i> , 2015 , 98, 2344-2351	3.8	33
87	Plasma Arc Welding of TiB ₂ -20 vol% TiC. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 56-59	3.8	15

86	Plasma arc welding of ZrB ₂ -0vol% ZrC ceramics. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 3549-3557	26
85	Modeling of Thermal and Mechanical Behavior of ZrB ₂ -SiC Ceramics after High Temperature Oxidation. <i>Journal of Ceramics</i> , 2014 , 2014, 1-9	3
84	Mechanical Properties of Zirconium-Diboride Based UHTCs 2014 , 167-196	11
83	Thermal Conductivity of ZrB ₂ and HfB ₂ 2014 , 197-235	1
82	Zirconium Diboride with High Thermal Conductivity. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 1689-1691	3.8 44
81	Thermal Properties of (Zr,TM)B ₂ Solid Solutions with TM=Hf, Nb, W, Ti, and Y. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 1552-1558	3.8 44
80	Mechanical behavior of zirconium diboride-silicon carbide ceramics at elevated temperature in air. <i>Journal of the European Ceramic Society</i> , 2013 , 33, 2889-2899	6 78
79	Silicon carbide-titanium diboride ceramic composites. <i>Journal of the European Ceramic Society</i> , 2013 , 33, 2943-2951	6 48
78	Effect of Carbon and Oxygen on the Densification and Microstructure of Hot Pressed Zirconium Diboride. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 3622-3630	3.8 15
77	Oxidation of zirconium diboride with niobium additions. <i>Journal of the European Ceramic Society</i> , 2013 , 33, 1591-1598	6 18
76	Mechanical properties of bioactive glass (13-93) scaffolds fabricated by robotic deposition for structural bone repair. <i>Acta Biomaterialia</i> , 2013 , 9, 7025-34	10.8 146
75	Strength of Zirconium Diboride to 2300°C. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 47-50	3.8 88
74	The effect of a graphite addition on oxidation of ZrB ₂ -SiC in air at 1500 °C. <i>Journal of the European Ceramic Society</i> , 2013 , 33, 413-421	6 39
73	Simulation of Thermal and Mechanical Response of (Zr,W)B ₂ Ceramic after Oxidation. <i>Applied Mechanics and Materials</i> , 2013 , 446-447, 40-44	0.3
72	Hybrid Extrusion Force-Velocity Control Using Freeze-Form Extrusion Fabrication for Functionally Graded Material Parts. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2013 , 135,	3.3 20
71	Microstructural Effects on the Mechanical Properties of SiC-15vol% TiB ₂ Particulate-Reinforced Ceramic Composites. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 577-583	3.8 16
70	Densification Behavior and Thermal Properties of Hafnium Diboride with the Addition of Boron Carbides. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 2035-2043	3.8 11
69	Coextrusion of Zirconia-Iron Oxide Honeycomb Substrates for Solar-Based Thermochemical Generation of Carbon Monoxide for Renewable Fuels. <i>Energy & Fuels</i> , 2012 , 26, 712-721	4.1 19

68	Temperature Jump Phenomenon During Plasmatron Testing of ZrB ₂ -SiC Ultrahigh-Temperature Ceramics. <i>Journal of Thermophysics and Heat Transfer</i> , 2012 , 26, 559-572	1.3	55
67	Effect of material, process parameters, and simulated body fluids on mechanical properties of 13-93 bioactive glass porous constructs made by selective laser sintering. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012 , 13, 14-24	4.1	73
66	Modeling of Oxidation Effects on Heat Transfer Behavior of ZrB ₂ and ZrB ₂ -SiC Ceramics at High Temperature 2012 ,		1
65	Elevated Temperature Thermal Properties of ZrB ₂ with Carbon Additions. <i>Journal of the American Ceramic Society</i> , 2012 , 95, n/a-n/a	3.8	7
64	Freeze-form extrusion fabrication of functionally graded materials. <i>CIRP Annals - Manufacturing Technology</i> , 2012 , 61, 223-226	4.9	49
63	Investigation of laser sintering for freeform fabrication of zirconium diboride parts. <i>Virtual and Physical Prototyping</i> , 2012 , 7, 25-36	10.1	21
62	Oxidation of ultra-high temperature transition metal diboride ceramics. <i>International Materials Reviews</i> , 2012 , 57, 61-72	16.1	152
61	Densification Behavior and Microstructure Evolution of Hot-Pressed HfB ₂ . <i>Journal of the American Ceramic Society</i> , 2011 , 94, 49-58	3.8	28
60	Oxidation of Zirconium Diboride with Tungsten Carbide Additions. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 1198-1205	3.8	39
59	Mechanical properties of sintered ZrB ₂ SiC ceramics. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 893-901	6	86
58	Fabrication of 13-93 bioactive glass scaffolds for bone tissue engineering using indirect selective laser sintering. <i>Biofabrication</i> , 2011 , 3, 025004	10.5	101
57	Superhard Boride-Carbide Particulate Composites. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 3580-3583	3.8	25
56	Processing of Carbon Nanofiber Reinforced ZrB ₂ Matrix Composites for Aerospace Applications. <i>Advanced Engineering Materials</i> , 2010 , 12, 623-626	3.5	15
55	Pressureless sintering of carbon nanotube-Al ₂ O ₃ composites. <i>Journal of the European Ceramic Society</i> , 2010 , 30, 1373-1380	6	120
54	Mechanical properties of reactively processed W/Ta ₂ C-based composites. <i>Journal of the European Ceramic Society</i> , 2010 , 30, 2197-2201	6	13
53	Oxidation of ZrB ₂ -SiC Ultrahigh-Temperature Ceramic Composites in Dissociated Air. <i>Journal of Thermophysics and Heat Transfer</i> , 2009 , 23, 267-278	1.3	42
52	Thermal properties and thermal shock resistance of liquid phase sintered ZrC-Mo cermets. <i>Materials Chemistry and Physics</i> , 2009 , 115, 690-695	4.4	20
51	Aqueous-based extrusion of high solids loading ceramic pastes: Process modeling and control. <i>Journal of Materials Processing Technology</i> , 2009 , 209, 2946-2957	5.3	47

50	Densification and mechanical properties of TaC-based ceramics. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 501, 37-43	5.3	90
49	Thermal Shock Resistance and Fracture Behavior of ZrB ₂ -Based Fibrous Monolith Ceramics. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 161-166	3.8	28
48	Thermal Shock Resistance of an AlN-BN-SiC Ceramic. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 1358-1361	3.8	13
47	Reaction Processing of Ultra-High Temperature W-Ta ₂ C-Based Cermets. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 1966-1971	3.8	15
46	Reactive hot pressing of zirconium diboride. <i>Journal of the European Ceramic Society</i> , 2009 , 29, 3401-3408		82
45	Numerical simulation of wear in a C/C composite multidisk clutch. <i>Carbon</i> , 2009 , 47, 2219-2225	10.4	15
44	Oxidation of ZrB ₂ and ZrB ₂ -SiC Ceramics with Tungsten Additions. <i>ECS Transactions</i> , 2009 , 16, 137-145	1	10
43	Aqueous-based freeze-form extrusion fabrication of alumina components. <i>Rapid Prototyping Journal</i> , 2009 , 15, 88-95	3.8	57
42	Optical Emission Spectroscopy During Plasmatron Testing of ZrB ₂ -SiC Ultrahigh-Temperature Ceramic Composites. <i>Journal of Thermophysics and Heat Transfer</i> , 2009 , 23, 279-285	1.3	18
41	Enhanced densification and mechanical properties of ZrB ₂ -SiC processed by a preceramic polymer coating route. <i>Scripta Materialia</i> , 2008 , 59, 123-126	5.6	62
40	Thermal shock resistance of ZrB ₂ and ZrB ₂ -B ₂ O ₃ -SiC. <i>Materials Chemistry and Physics</i> , 2008 , 112, 140-145	4.4	157
39	Synthesis, densification, and mechanical properties of TaB ₂ . <i>Materials Letters</i> , 2008 , 62, 4251-4253	3.3	95
38	Processing and thermal properties of an Mo ₅ Si ₃ C-B ₄ C ceramic. <i>Intermetallics</i> , 2008 , 16, 854-859	3.5	6
37	Thermal properties of a reaction hot pressed Mo ₅ Si ₃ C-B ₄ C ceramic. <i>Intermetallics</i> , 2008 , 16, 1047-1052	3.5	3
36	Microwave sintering of a ZrB ₂ -B ₄ C particulate ceramic composite. <i>Composites Part A: Applied Science and Manufacturing</i> , 2008 , 39, 449-453	8.4	64
35	Mechanical and thermal properties of AlN-BN-SiC ceramics. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 494, 239-246	5.3	13
34	Microstructure and mechanical characterization of ZrC-Mo cermets produced by hot isostatic pressing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 497, 79-86	5.3	57
33	Pressureless Sintering of Zirconium Diboride: Particle Size and Additive Effects. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 1398-1404	3.8	158

32	Processing of ZrCMo Cermets for High Temperature Applications, Part II: Pressureless Sintering and Mechanical Properties. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 873-878	3.8	29
31	Thermophysical Properties of ZrB ₂ and ZrB ₂ SiC Ceramics. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 1405-1411	3.8	235
30	Improved Oxidation Resistance of Zirconium Diboride by Tungsten Carbide Additions. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 3530-3535	3.8	86
29	Densification, Mechanical Properties, and Oxidation Resistance of TaC/TaB ₂ Ceramics. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 4129-4132	3.8	80
28	Behavior of a composite multidisk clutch subjected to mechanical and frictionally excited thermal load. <i>Wear</i> , 2008 , 264, 1059-1068	3.5	39
27	Pressureless sintering of carbon-coated zirconium diboride powders. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 459, 167-171	5.3	136
26	Influence of silicon carbide particle size on the microstructure and mechanical properties of zirconium diboride/silicon carbide ceramics. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 2077-2083 ⁶		250
25	Evolution of structure during the oxidation of zirconium diboride/silicon carbide in air up to 1500 °C. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 2495-2501	6	313
24	Fabrication and properties of reactively hot pressed ZrB ₂ SiC ceramics. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 2729-2736	6	101
23	Hot Pressing of Tantalum Carbide With and Without Sintering Additives. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 393-401	3.8	120
22	Refractory Diborides of Zirconium and Hafnium. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 1347-1364	3.864	1444
21	Processing of ZrCMo Cermets for High-Temperature Applications, Part I: Chemical Interactions in the ZrCMo System. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 1998-2002	3.8	32
20	Pressureless Sintering of Zirconium Diboride Using Boron Carbide and Carbon Additions. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 3660-3663	3.8	134
19	Pressureless Sintering of ZrB ₂ SiC Ceramics. <i>Journal of the American Ceramic Society</i> , 2007 , 91, 26-32	3.8	120
18	Dispersion of Zirconium Diboride in an Aqueous, High-Solids Paste. <i>International Journal of Applied Ceramic Technology</i> , 2007 , 4, 470-479	2	39
17	Mechanical vs. electrical failure mechanisms in high voltage, high energy density multilayer ceramic capacitors. <i>Journal of Materials Science</i> , 2007 , 42, 5613-5619	4.3	91
16	Effect of hot pressing time and temperature on the microstructure and mechanical properties of ZrB ₂ SiC. <i>Journal of Materials Science</i> , 2007 , 42, 2735-2744	4.3	214
15	Freeze-form extrusion fabrication of ceramic parts. <i>Virtual and Physical Prototyping</i> , 2006 , 1, 93-100	10.1	55

14	Pressureless Sintering of Zirconium Diboride. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 450-456	3.8	253
13	Pressureless Densification of Zirconium Diboride with Boron Carbide Additions. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 1544-1550	3.8	262
12	Oxidation of Zirconium Diboride/Silicon Carbide at 1500°C at a Low Partial Pressure of Oxygen. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 3240-3245	3.8	134
11	Low-Temperature Densification of Zirconium Diboride Ceramics by Reactive Hot Pressing. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 3638-3645	3.8	110
10	Strength of functionally designed cellular cemented carbides produced by coextrusion. <i>Journal of Materials Science</i> , 2006 , 41, 8367-8371	4.3	5
9	High-Strength Zirconium Diboride-Based Ceramics. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 1170-1172	3.8	652
8	Effect of AlN and Al ₂ O ₃ additions on the phase relationships and morphology of SiC Part I Compositions and properties. <i>Journal of Materials Science</i> , 1999 , 34, 5605-5612	4.3	11
7	Advances in the Fabrication of Functionally Graded Materials Using Extrusion Freeform Fabrication 1997 , 319-324		3
6	Microstructural Evolution in Near-Eutectic Yttrium Silicate Compositions Fabricated from a Bulk Melt and as an Intergranular Phase in Silicon Nitride. <i>Journal of the American Ceramic Society</i> , 1990 , 73, 3575-3579	3.8	26
5	Microstructural Changes in Silicon Nitride Grains upon Crystallizing the Grain-Boundary Glass. <i>Journal of the American Ceramic Society</i> , 1989 , 72, 1931-1937	3.8	41
4	Solid-state formation mechanisms of core-shell microstructures in (Zr,Ta)B ₂ ceramics. <i>Journal of the American Ceramic Society</i> ,	3.8	0
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1	High-entropy boride/carbide ceramics by sequential boro/carbothermal synthesis. <i>Journal of the American Ceramic Society</i> ,	3.8	1