

William Fahrenheitz

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.

227
papers

11,001
citations

53
h-index

100
g-index

244
ext. papers

12,389
ext. citations

4.5
avg, IF

6.81
L-index

#	Paper	IF	Citations
227	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
226	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
225	Relating detonation parameters to the detonation synthesis of silicon carbide. <i>Journal of Applied Physics</i> , 2022 , 131, 175902	2.5	2
224	Detonation synthesis of nanoscale silicon carbide from elemental silicon. <i>Ceramics International</i> , 2021 , 48, 4456-4456	5.1	1
223	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
222	Mechanical properties of borothermally synthesized zirconium diboride at elevated temperatures. <i>International Journal of Applied Ceramic Technology</i> , 2021 , 18, 1235-1243	2	2
221	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
220	Zirconium diboride laminates for improved damage tolerance at elevated temperatures. <i>International Journal of Applied Ceramic Technology</i> , 2021 , 18, 1845-1852	2	2
219	High-Entropy Ultra-High-Temperature Borides and Carbides: A New Class of Materials for Extreme Environments. <i>Annual Review of Materials Research</i> , 2021 , 51, 165-185	12.8	8
218	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
217	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
216	Strength of single-phase high-entropy carbide ceramics up to 2300°C. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 419-427	3.8	34
215	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
214	Characterization of Cobalt-Containing and Cobalt-free Trivalent Chromium Passivation Layers on ZnNi-Coated Al6061-T6 Substrates. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 4535-4544	9.5	1
213	Shock focusing effects on silica phase production during cyclotrimethylene trinitramine/2,4,6-trinitrotoluene detonations. <i>Journal of Applied Physics</i> , 2021 , 129, 045901	2.5	3
212	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
211	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

210	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
209	Thermal properties of ZrB ₂ -TiB ₂ solid solutions. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 7434-7434	0	0
208	Entropy Landscaping of High-Entropy Carbides. <i>Advanced Materials</i> , 2021 , 33, e2102904	24	2
207	Sequential ion-electron irradiation of zirconium carbide ceramics: Microstructural analysis. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 48-48	6	0
206	Design of ultra-high temperature ceramic nano-composites from multi-scale length microstructure approach. <i>Composites Part B: Engineering</i> , 2021 , 109344	10	0
205	Characterization of cobalt containing and cobalt-free trivalent chromium passivations on $\sqrt{3}\times\sqrt{3}$ ZnNi coated steel substrates. <i>Thin Solid Films</i> , 2021 , 735, 138894	2.2	0
204	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
203	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
202	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
201	Early stage oxidation of ZrC under 10 MeV Au ³⁺ ion-irradiation at 800 °C. <i>Corrosion Science</i> , 2020 , 169, 108609	6.8	4
200	Processing of dense high-entropy boride ceramics. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 3815-3823	6	22
199	Effects of inert additives on cyclotrimethylene-trinitramine (RDX)/trinitrotoluene (TNT) detonation parameters to predict detonation synthesis phase production 2020 ,		1
198	Two-step synthesis process for high-entropy diboride powders. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 724-730	3.8	25
197	Thermal properties and elastic constants of $\sqrt{3}\times\sqrt{3}$ Ta ₄ C ₃ . <i>Journal of the American Ceramic Society</i> , 2020 , 103, 2986-2990	3.8	4
196	Solute distributions in tantalum-containing zirconium diboride ceramics. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 2880-2890	3.8	5
195	Carbon vacancy ordering in zirconium carbide powder. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 2891-2898	3.8	8
194	Detonation synthesis of silicon carbide nanoparticles. <i>Ceramics International</i> , 2020 , 46, 6951-6954	5.1	10
193	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

192	Formation kinetics and cation inversion in mechanically activated MgAl ₂ O ₄ spinel ceramics. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 140, 95-107	4.1	2
191	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
190	Ceria-based coatings and pigments 2020 , 211-257		3
189	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
188	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
187	Densification, microstructure, and mechanical properties of ZrCBiC ceramics. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 5786-5795	3.8	14
186	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
185	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
184	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
183	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
182	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
181	Characterization of MgAl ₂ O ₄ sintered ceramics. <i>Science of Sintering</i> , 2019 , 51, 363-376	0.7	2
180	Response of isotopically tailored titanium diboride to neutron irradiation. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 85-89	3.8	5
179	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
178	Nano-scale microstructure damage by neutron irradiations in a novel Boron-11 enriched TiB ₂ ultra-high temperature ceramic. <i>Acta Materialia</i> , 2019 , 165, 26-39	8.4	18
177	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
176	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
175	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

174	Solidification of welded SiC _z B ₂ ZrC ceramics. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 4331-4339	8.3	8
173	A study of size effects in bioinspired, "acre-like" metal-compliant-phase (nickel-alumina) coextruded ceramics. <i>Acta Materialia</i> , 2018 , 148, 147-155	8.4	30
172	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
171	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
170	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
169	Detonation synthesis of alpha-variant silicon carbide 2018 ,		3
168	Microstructural evolution and mechanical properties of (Mg,Co,Ni,Cu,Zn)O high-entropy ceramics. <i>Journal of the American Ceramic Society</i> , 2018 , 102, 2228	3.8	23
167	The response of ZrB ₂ to simulated plasma-facing material conditions of He irradiation at high temperature. <i>Journal of Nuclear Materials</i> , 2018 , 507, 112-125	3.3	5
166	Super-strong materials for temperatures exceeding 2000 °C. <i>Scientific Reports</i> , 2017 , 7, 40730	4.9	68
165	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
164	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
163	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> , 2017 , 100, 1777-1803	3.8	17
162	Ultra-high temperature ceramics: Materials for extreme environments. <i>Scripta Materialia</i> , 2017 , 129, 94-99	5.6	318
161	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
160	Mechanical Behavior and Applications of Plasma Arc Welded Ceramics. <i>International Journal of Applied Ceramic Technology</i> , 2016 , 13, 41-49	2	5
159	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
158	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
157	Investigations into the slip behavior of zirconium diboride. <i>Journal of Materials Research</i> , 2016 , 31, 2749-2756	2.5	6

156	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
155	Synthesis of ultra-refractory transition metal diboride compounds. <i>Journal of Materials Research</i> , 2016 , 31, 2757-2772	2.5	41
154	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
153	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
152	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
151	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
150	Thermal Properties of Hf-Doped ZrB ₂ Ceramics. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 2689-2691	3.691	24
149	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
148	Cerium-based oxide coatings. <i>Current Opinion in Solid State and Materials Science</i> , 2015 , 19, 69-76	12	76
147	Sintering and Densification Mechanisms of Ultra-High Temperature Ceramics 2014 , 112-143		13
146	Plasma Arc Welding of TiB ₂ -0vol% TiC. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 56-59	3.8	15
145	Plasma arc welding of ZrB ₂ -0vol% ZrC ceramics. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 3549-3557	3.557	26
144	Nuclear Applications for Ultra-High Temperature Ceramics and MAX Phases 2014 , 391-415		11
143	Titanium Diboride 2014 , 316-360		3
142	Tantalum Carbides 2014 , 291-315		3
141	Modeling and Evaluating the Environmental Degradation of UHTCs under Hypersonic Flow 2014 , 267-290		1
140	UHTC Composites for Hypersonic Applications 2014 , 144-166		12
139	Near-Net-Shaping of Ultra-High Temperature Ceramics 2014 , 83-111		2

138	First-Principles Investigation on the Chemical Bonding and Intrinsic Elastic Properties of Transition Metal Diborides TMB ₂ (TM=Zr, Hf, Nb, Ta, and Y) 2014 , 60-82		3
137	Reactive Processes for Diboride-Based Ultra-High Temperature Ceramics 2014 , 33-59		2
136	UHTC-Based Hot Structures 2014 , 416-436		3
135	Mechanical Properties of Zirconium-Diboride Based UHTCs 2014 , 167-196		11
134	A Historical Perspective on Research Related to Ultra-High Temperature Ceramics 2014 , 6-32		3
133	Deformation and Hardness of UHTCs as a Function of Temperature 2014 , 236-266		3
132	Thermal Conductivity of ZrB ₂ and HfB ₂ 2014 , 197-235		1
131	Zirconium Diboride with High Thermal Conductivity. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 1689-1691	3.8	44
130	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
129	Effects of temperature and the incorporation of W on the oxidation of ZrB ₂ ceramics. <i>Corrosion Science</i> , 2014 , 80, 221-228	6.8	29
128	Microstructural evolution of cerium-based coatings on AZ31 magnesium alloys. <i>Surface and Coatings Technology</i> , 2014 , 246, 77-84	4.4	18
127	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
126	Silicon carbide-titanium diboride ceramic composites. <i>Journal of the European Ceramic Society</i> , 2013 , 33, 2943-2951	6	48
125	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
124	Photo-assisted reduction in nanostructured cerium-based coatings. <i>Scripta Materialia</i> , 2013 , 69, 489-492	5.6	13
123	Oxidation of zirconium diboride with niobium additions. <i>Journal of the European Ceramic Society</i> , 2013 , 33, 1591-1598	6	18
122	Strength of Zirconium Diboride to 2300°C. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 47-50	3.8	88
121	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

120	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	
119	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
118	Mechanical Characterization of Annealed ZrB ₂ -SiC Composites. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 845-851	3.8	6
117	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
116	Chromate formation at the interface between a solid oxide fuel cell sealing glass and interconnect alloy. <i>Journal of Power Sources</i> , 2012 , 205, 301-306	8.9	38
115	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
114	Dissolution of cerium from cerium-based conversion coatings on Al 7075-T6 in 0.1 M NaCl solutions. <i>Corrosion Science</i> , 2012 , 60, 290-295	6.8	41
113	Modeling of Oxidation Effects on Heat Transfer Behavior of ZrB ₂ and ZrB ₂ -SiC Ceramics at High Temperature 2012 ,		1
112	Deposition of Cerium-Based Conversion Coatings on Aluminum Alloy 380. <i>International Journal of Corrosion</i> , 2012 , 2012, 1-9	2	6
111	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
110	Investigation of laser sintering for freeform fabrication of zirconium diboride parts. <i>Virtual and Physical Prototyping</i> , 2012 , 7, 25-36	10.1	21
109	Oxidation of ultra-high temperature transition metal diboride ceramics. <i>International Materials Reviews</i> , 2012 , 57, 61-72	16.1	152
108	Three-Dimensional Micromechanical Modeling of Continuous Fiber Reinforced Ceramic Composites With Interfaces 2012 ,		1
107	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
106	Effect of Starting Particle Size and Oxygen Content on Densification of ZrB ₂ . <i>Journal of the American Ceramic Society</i> , 2011 , 94, 429-435	3.8	71
105	Oxidation of Zirconium Diboride with Tungsten Carbide Additions. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 1198-1205	3.8	39
104	Mechanical Characterization of ZrB ₂ -SiC Composites with Varying SiC Particle Sizes. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 4410-4418	3.8	67
103	Thermal decomposition behavior of praseodymium oxides, hydroxides, and carbonates. <i>Inorganic Materials</i> , 2011 , 47, 974-978	0.9	9

102	Chemical and structural analyses of subsurface crevices formed during spontaneous deposition of cerium-based conversion coatings. <i>Materials Characterization</i> , 2011 , 62, 1071-1075	3.9	14
101	Effect of alkaline cleaning and activation on aluminum alloy 7075-T6. <i>Applied Surface Science</i> , 2011 , 257, 1859-1863	6.7	41
100	Mechanical properties of sintered ZrB ₂ /SiC ceramics. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 893-901	6	86
99	Measurement of thermal residual stresses in ZrB ₂ /SiC composites. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 1811-1820	6	74
98	Alkaline activation of Al 7075-T6 for deposition of cerium-based conversion coatings. <i>Surface and Coatings Technology</i> , 2011 , 205, 4312-4319	4.4	28
97	Electrochemical Characterization of Al 7075-T6 Surface Oxide After Alkaline Treatments. <i>Journal of the Electrochemical Society</i> , 2011 , 158, C296	3.9	7
96	Characterization of Cerium-Based Conversion Coatings on Al 7075-T6 Deposited from Chloride and Nitrate Salt Solutions. <i>Journal of the Electrochemical Society</i> , 2011 , 158, C88	3.9	21
95	TEM investigation of hot pressed -10 vol.%SiC/ZrB ₂ composite. <i>Advances in Applied Ceramics</i> , 2011 , 110, 1-7	2.3	44
94	Superhard Boride/Carbide Particulate Composites. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 3580-3583	3.8	25
93	Corrosion Protection of Cerium-Based Conversion Coatings with Subsurface Crevices. <i>ECS Transactions</i> , 2010 , 28, 187-201	1	3
92	Effect of Phase on the Electrochemical and Morphological Properties of Praseodymium-Based Coatings. <i>ECS Transactions</i> , 2010 , 33, 53-66	1	5
91	Effect of Humidity on Cerium-based Conversion Coatings on Al 7075-T6. <i>ECS Transactions</i> , 2010 , 28, 217-228		3
90	Directly Deposited Cerium Phosphate Coatings for the Corrosion Protection of Al 2024-T3. <i>ECS Transactions</i> , 2010 , 28, 203-215	1	5
89	Characterization of Transport Processes in a Praseodymium-Containing Coating. <i>ECS Transactions</i> , 2010 , 28, 229-237	1	4
88	Characterization of Localized Surface States of Al 7075-T6 during Deposition of Cerium-Based Conversion Coatings. <i>Journal of the Electrochemical Society</i> , 2010 , 157, C282	3.9	21
87	Multifunctional UV (MUV) curable corrosion coatings for aerospace applications. <i>Metal Finishing</i> , 2010 , 108, 28-31		2
86	The effect of post-treatment time and temperature on cerium-based conversion coatings on Al 2024-T3. <i>Corrosion Science</i> , 2010 , 52, 360-368	6.8	87
85	Screening study of spray solution parameters for depositing cerium-based conversion coatings on Al alloy 2024-T3. <i>Journal of Applied Electrochemistry</i> , 2010 , 40, 551-559	2.6	13

84	Processing of Carbon Nanofiber Reinforced ZrB ₂ Matrix Composites for Aerospace Applications. <i>Advanced Engineering Materials</i> , 2010 , 12, 623-626	3.5	15
83	Pressureless sintering of carbon nanotube/Al ₂ O ₃ composites. <i>Journal of the European Ceramic Society</i> , 2010 , 30, 1373-1380	6	120
82	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
81	Stress measurements in ZrB ₂ /SiC composites using Raman spectroscopy and neutron diffraction. <i>Journal of the European Ceramic Society</i> , 2010 , 30, 2165-2171	6	53
80	Formation of subsurface crevices in aluminum alloy 2024-T3 during deposition of cerium-based conversion coatings. <i>Surface and Coatings Technology</i> , 2010 , 204, 4095-4100	4.4	31
79	Sub-Surface Electrochemical Effects on the Spontaneous Deposition of Cerium Conversion Coatings on Aluminum Alloys. <i>ECS Transactions</i> , 2009 , 19, 101-113	1	5
78	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
77	Electrochemical and Structural Changes in Cerium Based Conversion Coatings during Exposure to Salt Spray. <i>ECS Transactions</i> , 2009 , 25, 3-17	1	2
76	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
75	Effects of acid and alkaline based surface preparations on spray deposited cerium based conversion coatings on Al 2024-T3. <i>Applied Surface Science</i> , 2009 , 255, 4061-4065	6.7	64
74	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
73	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
72	Thermal Shock Resistance of an AlN/B ₄ C Ceramic. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 1358-1361	3.8	13
71	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
70	Effect of gelatin additions on the corrosion resistance of cerium based conversion coatings spray deposited on Al 2024-T3. <i>Surface and Coatings Technology</i> , 2009 , 203, 3533-3540	4.4	29
69	Reactive hot pressing of zirconium diboride. <i>Journal of the European Ceramic Society</i> , 2009 , 29, 3401-3408		82
68	Oxidation of ZrB ₂ and ZrB ₂ -SiC Ceramics with Tungsten Additions. <i>ECS Transactions</i> , 2009 , 16, 137-145	1	10
67	Effect of Phosphate Source on Post-Treatment of Cerium-Based Conversion Coatings on Al 2024-T3. <i>Journal of the Electrochemical Society</i> , 2009 , 156, C400	3.9	33

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