

# Robert Vassen

## List of Publications by Citations

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247  
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89  
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260  
ext. papers

10,929  
ext. citations

3.8  
avg, IF

6.47  
L-index

#	Paper	IF	Citations
247	Zirconates as New Materials for Thermal Barrier Coatings. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 83, 2023-2028	3.8	854
246	Overview on advanced thermal barrier coatings. <i>Surface and Coatings Technology</i> , <b>2010</b> , 205, 938-942	4.4	713
245	Thermal Conductivity and Thermal Expansion Coefficients of the Lanthanum Rare-Earth-Element Zirconate System. <i>Journal of the American Ceramic Society</i> , <b>2003</b> , 86, 1338-1344	3.8	342
244	Recent Developments in the Field of Thermal Barrier Coatings. <i>Journal of Thermal Spray Technology</i> , <b>2009</b> , 18, 181-186	2.5	233
243	Atmospheric plasma sprayed thick thermal barrier coatings with high segmentation crack density. <i>Surface and Coatings Technology</i> , <b>2004</b> , 186, 353-363	4.4	206
242	New Thermal Barrier Coatings Based on Pyrochlore/YSZ Double-Layer Systems. <i>International Journal of Applied Ceramic Technology</i> , <b>2005</b> , 1, 351-361	2	203
241	Ceramic Top Coats of Plasma-Sprayed Thermal Barrier Coatings: Materials, Processes, and Properties. <i>Journal of Thermal Spray Technology</i> , <b>2017</b> , 26, 992-1010	2.5	170
240	Development of a micromechanical life prediction model for plasma sprayed thermal barrier coatings. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2001</b> , 303, 100-109	5.3	168
239	The 2016 Thermal Spray Roadmap. <i>Journal of Thermal Spray Technology</i> , <b>2016</b> , 25, 1376-1440	2.5	165
238	New material concepts for the next generation of plasma-sprayed thermal barrier coatings. <i>Journal of Thermal Spray Technology</i> , <b>2004</b> , 13, 76-83	2.5	146
237	Review of New Developments in Suspension and Solution Precursor Thermal Spray Processes. <i>Journal of Thermal Spray Technology</i> , <b>2011</b> , 20, 677-695	2.5	141
236	Application of Suspension Plasma Spraying (SPS) for Manufacture of Ceramic Coatings. <i>Journal of Thermal Spray Technology</i> , <b>2008</b> , 17, 115-123	2.5	134
235	Perovskite-Type Strontium Zirconate as a New Material for Thermal Barrier Coatings. <i>Journal of the American Ceramic Society</i> , <b>2008</b> , 91, 2630-2635	3.8	131
234	Atmospheric plasma sprayed thermal barrier coatings with high segmentation crack densities: Spraying process, microstructure and thermal cycling behavior. <i>Surface and Coatings Technology</i> , <b>2011</b> , 206, 16-23	4.4	128
233	Thermophysical properties and thermal cycling behavior of plasma sprayed thick thermal barrier coatings. <i>Surface and Coatings Technology</i> , <b>2005</b> , 192, 48-56	4.4	122
232	Stress distributions in plasma-sprayed thermal barrier coatings as a function of interface roughness and oxide scale thickness. <i>Surface and Coatings Technology</i> , <b>2002</b> , 161, 26-35	4.4	114
231	Gadolinium Zirconate/YSZ Thermal Barrier Coatings: Plasma Spraying, Microstructure, and Thermal Cycling Behavior. <i>Journal of the American Ceramic Society</i> , <b>2014</b> , 97, 4045-4051	3.8	104

230	Lifetime of Plasma-Sprayed Thermal Barrier Coatings: Comparison of Numerical and Experimental Results. <i>Journal of Thermal Spray Technology</i> , <b>2009</b> , 18, 835-845	2.5	95
229	Yb <sub>2</sub> O <sub>3</sub> and Gd <sub>2</sub> O <sub>3</sub> doped strontium zirconate for thermal barrier coatings. <i>Journal of the European Ceramic Society</i> , <b>2008</b> , 28, 3071-3081	6	95
228	Sintering and creep processes in plasma-sprayed thermal barrier coatings. <i>Journal of Thermal Spray Technology</i> , <b>2004</b> , 13, 432-442	2.5	91
227	Influence of impurity content and porosity of plasma-sprayed yttria-stabilized zirconia layers on the sintering behaviour. <i>Surface and Coatings Technology</i> , <b>2001</b> , 141, 135-140	4.4	90
226	Suspension Plasma Spraying: Process Characteristics and Applications. <i>Journal of Thermal Spray Technology</i> , <b>2010</b> , 19, 219-225	2.5	88
225	Manufacturing of high performance solid oxide fuel cells (SOFCs) with atmospheric plasma spraying (APS). <i>Surface and Coatings Technology</i> , <b>2007</b> , 202, 499-508	4.4	87
224	Process development and coating characteristics of plasma spray-PVD. <i>Surface and Coatings Technology</i> , <b>2013</b> , 220, 219-224	4.4	86
223	Component interactions after long-term operation of an SOFC stack with LSM cathode. <i>Journal of Power Sources</i> , <b>2012</b> , 201, 196-203	8.9	84
222	Plasma-Sprayed Thermal Barrier Coatings: New Materials, Processing Issues, and Solutions. <i>Journal of Thermal Spray Technology</i> , <b>2013</b> , 22, 646-658	2.5	84
221	Columnar-Structured Thermal Barrier Coatings (TBCs) by Thin Film Low-Pressure Plasma Spraying (LPPS-TF). <i>Journal of Thermal Spray Technology</i> , <b>2011</b> , 20, 116-120	2.5	82
220	Porosity-Property Relationships of Plasma-Sprayed Gd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> /YSZ Thermal Barrier Coatings. <i>Journal of the American Ceramic Society</i> , <b>2015</b> , 98, 2647-2654	3.8	79
219	Modelling of the agglomeration of Ni-particles in anodes of solid oxide fuel cells. <i>Journal of Materials Science</i> , <b>2001</b> , 36, 147-151	4.3	74
218	Comparison and Applications of DPV-2000 and Accuraspray-g3 Diagnostic Systems. <i>Journal of Thermal Spray Technology</i> , <b>2007</b> , 16, 414-424	2.5	73
217	Solid particle erosion of thermal spray and physical vapour deposition thermal barrier coatings. <i>Wear</i> , <b>2011</b> , 271, 2909-2918	3.5	72
216	Improved Thermal Cycling Durability of Thermal Barrier Coatings Manufactured by PS-PVD. <i>Journal of Thermal Spray Technology</i> , <b>2014</b> , 23, 182-189	2.5	71
215	Process Conditions and Microstructures of Ceramic Coatings by Gas Phase Deposition Based on Plasma Spraying. <i>Journal of Thermal Spray Technology</i> , <b>2013</b> , 22, 83-89	2.5	70
214	Molten salt shielded synthesis of oxidation prone materials in air. <i>Nature Materials</i> , <b>2019</b> , 18, 465-470	27	69
213	La <sub>2</sub> (Zr <sub>0.7</sub> Ce <sub>0.3</sub> ) <sub>2</sub> O <sub>7</sub> : A new oxide ceramic material with high sintering-resistance. <i>Materials Letters</i> , <b>2008</b> , 62, 2667-2669	3.3	69

212	Characteristics of Ceramic Coatings Made by Thin Film Low Pressure Plasma Spraying (LPPS-TF). <i>Journal of Thermal Spray Technology</i> , <b>2012</b> , 21, 435-440	2.5	68
211	Deposition and Characteristics of Submicrometer-Structured Thermal Barrier Coatings by Suspension Plasma Spraying. <i>Journal of Thermal Spray Technology</i> , <b>2012</b> , 21, 416-424	2.5	67
210	A life time model for ceramic thermal barrier coatings. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2003</b> , 358, 255-265	5.3	67
209	Novel opportunities for thermal spray by PS-PVD. <i>Surface and Coatings Technology</i> , <b>2015</b> , 268, 52-57	4.4	66
208	Thermal Cycling Setup for Testing Thermal Barrier Coatings. <i>Advanced Engineering Materials</i> , <b>2003</b> , 5, 429-432	3.5	63
207	Correlation of splat morphologies with porosity and residual stress in plasma-sprayed YSZ coatings. <i>Surface and Coatings Technology</i> , <b>2017</b> , 318, 157-169	4.4	62
206	Plasma and Particle Temperature Measurements in Thermal Spray: Approaches and Applications. <i>Journal of Thermal Spray Technology</i> , <b>2011</b> , 20, 391-406	2.5	62
205	Hot Corrosion of Lanthanum Zirconate and Partially Stabilized Zirconia Thermal Barrier Coatings. <i>Journal of Engineering for Gas Turbines and Power</i> , <b>2006</b> , 128, 144-152	1.7	62
204	Application of Plasma-Sprayed Complex Perovskites as Thermal Barrier Coatings. <i>Journal of Thermal Spray Technology</i> , <b>2009</b> , 18, 187-193	2.5	61
203	Advanced thermal spray technologies for applications in energy systems. <i>Surface and Coatings Technology</i> , <b>2008</b> , 202, 4432-4437	4.4	61
202	Design of next generation thermal barrier coatings I Experiments and modelling. <i>Surface and Coatings Technology</i> , <b>2013</b> , 220, 20-26	4.4	58
201	Processing and Properties of Nanograin Silicon Carbide. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 82, 2585-2593	3.8	58
200	Functional performance of Gd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> /YSZ multi-layered thermal barrier coatings deposited by suspension plasma spray. <i>Surface and Coatings Technology</i> , <b>2017</b> , 318, 208-216	4.4	57
199	Thermal-gradient testing of thermal barrier coatings under simultaneous attack by molten glassy deposits and its mitigation. <i>Surface and Coatings Technology</i> , <b>2010</b> , 204, 2683-2688	4.4	57
198	Enhanced Characteristics of HVOF-sprayed MCrAlY Bond Coats for TBC Applications. <i>Journal of Thermal Spray Technology</i> , <b>2011</b> , 20, 1209-1216	2.5	55
197	Yb <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> Environmental Barrier Coatings Deposited by Various Thermal Spray Techniques: A Preliminary Comparative Study. <i>Journal of Thermal Spray Technology</i> , <b>2017</b> , 26, 1011-1024	2.5	54
196	Plasma_sprayed components for SOFC applications. <i>Surface and Coatings Technology</i> , <b>2006</b> , 201, 2002-2005	4.4	54
195	Development of YSZ Thermal Barrier Coatings Using Axial Suspension Plasma Spraying. <i>Coatings</i> , <b>2017</b> , 7, 120	2.9	53

194	Stress Distributions in Plasma-Sprayed Thermal Barrier Coatings Under Thermal Cycling in a Temperature Gradient. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2011</b> , 78,	2.7	52
193	New Generation Perovskite Thermal Barrier Coating Materials. <i>Journal of Thermal Spray Technology</i> , <b>2008</b> , 17, 831-837	2.5	51
192	Processing and properties of nanophase non-oxide ceramics. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2001</b> , 301, 59-68	5.3	49
191	Isothermal and cyclic oxidation behavior of free standing MCrAlY coatings manufactured by high-velocity atmospheric plasma spraying. <i>Surface and Coatings Technology</i> , <b>2017</b> , 313, 191-201	4.4	48
190	Testing and evaluation of thermal-barrier coatings. <i>MRS Bulletin</i> , <b>2012</b> , 37, 911-916	3.2	48
189	Atmospheric plasma spraying of yttria-stabilized zirconia coatings with specific porosity. <i>Surface and Coatings Technology</i> , <b>2009</b> , 204, 172-179	4.4	48
188	Densification of ultrafine SiC powders. <i>Journal of Materials Science</i> , <b>1996</b> , 31, 3623-3637	4.3	48
187	Tailoring columnar microstructure of axial suspension plasma sprayed TBCs for superior thermal shock performance. <i>Materials and Design</i> , <b>2018</b> , 144, 192-208	8.1	46
186	A novel test approach for plasma-sprayed coatings tested simultaneously under CMAS and thermal gradient cycling conditions. <i>Surface and Coatings Technology</i> , <b>2010</b> , 205, 2287-2295	4.4	46
185	Multi-layer thin-film electrolytes for metal supported solid oxide fuel cells. <i>Journal of Power Sources</i> , <b>2014</b> , 256, 52-60	8.9	45
184	Correlation between spraying conditions and microcrack density and their influence on thermal cycling life of thermal barrier coatings. <i>Journal of Thermal Spray Technology</i> , <b>2004</b> , 13, 396-404	2.5	45
183	Recent Activities in the Field of Thermal Barrier Coatings Including Burner Rig Testing in the European Union. <i>Advanced Engineering Materials</i> , <b>2008</b> , 10, 907-921	3.5	42
182	Thin and Dense Ceramic Coatings by Plasma Spraying at Very Low Pressure. <i>Journal of Thermal Spray Technology</i> , <b>2010</b> , 19, 495-501	2.5	38
181	Functionally graded vacuum plasma sprayed and magnetron sputtered tungsten/EUROFER97 interlayers for joints in helium-cooled divertor components. <i>Journal of Nuclear Materials</i> , <b>2013</b> , 436, 29-39	3.3	36
180	Improving Atmospheric Plasma Spraying of Zirconate Thermal Barrier Coatings Based on Particle Diagnostics. <i>Journal of Thermal Spray Technology</i> , <b>2012</b> , 21, 363-371	2.5	36
179	Detection of Melting Temperatures and Sources of Errors Using Two-Color Pyrometry During In-flight Measurements of Atmospheric Plasma-Sprayed Particles. <i>International Journal of Thermophysics</i> , <b>2008</b> , 29, 764-786	2.1	36
178	Erosion Performance of Gadolinium Zirconate-Based Thermal Barrier Coatings Processed by Suspension Plasma Spray. <i>Journal of Thermal Spray Technology</i> , <b>2017</b> , 26, 108-115	2.5	35
177	Investigation of the resistance of open-column-structured PS-PVD TBCs to erosive and high-temperature corrosive attack. <i>Surface and Coatings Technology</i> , <b>2017</b> , 324, 222-235	4.4	34

176	Gadolinium zirconate/YSZ thermal barrier coatings: Mixed-mode interfacial fracture toughness and sintering behavior. <i>Surface and Coatings Technology</i> , <b>2016</b> , 286, 119-128	4.4	33
175	The processing of vacuum plasma-sprayed tungsten/copper composite coatings for high heat flux components. <i>Fusion Engineering and Design</i> , <b>2003</b> , 66-68, 259-263	1.7	33
174	Sintering resistance of advanced plasma-sprayed thermal barrier coatings with strain-tolerant microstructures. <i>Journal of the European Ceramic Society</i> , <b>2018</b> , 38, 5092-5100	6	32
173	Atmospheric Plasma Spraying of High Melting Temperature Complex Perovskites for TBC Application. <i>Journal of Thermal Spray Technology</i> , <b>2010</b> , 19, 303-310	2.5	32
172	Mechanical properties of zirconia composite ceramics. <i>Ceramics International</i> , <b>2013</b> , 39, 7595-7603	5.1	31
171	Investigations on the Nature of Ceramic Deposits in Plasma Spray/Physical Vapor Deposition. <i>Journal of Thermal Spray Technology</i> , <b>2017</b> , 26, 83-92	2.5	30
170	Process diagnostics in suspension plasma spraying. <i>Surface and Coatings Technology</i> , <b>2010</b> , 205, 961-966	4.4	30
169	Preparation and sintering behaviour of La <sub>0.5</sub> WO <sub>3</sub> asymmetric membranes with optimised microstructure for hydrogen separation. <i>Journal of Membrane Science</i> , <b>2015</b> , 492, 439-451	9.6	29
168	Ceramic materials for H <sub>2</sub> transport membranes applicable for gas separation under coal-gasification-related conditions. <i>Journal of the European Ceramic Society</i> , <b>2014</b> , 34, 2381-2389	6	28
167	Effect of processing on high-velocity water vapor recession behavior of Yb-silicate environmental barrier coatings. <i>Journal of the European Ceramic Society</i> , <b>2019</b> , 39, 1507-1513	6	27
166	Lifetime and failure modes of plasma sprayed thermal barrier coatings in thermal gradient rig tests with simultaneous CMAS injection. <i>Surface and Coatings Technology</i> , <b>2017</b> , 324, 36-47	4.4	26
165	New environmental barrier coating system on carbon-fiber reinforced silicon carbide composites. <i>Journal of Thermal Spray Technology</i> , <b>2005</b> , 14, 268-272	2.5	26
164	Suspension and Air Plasma-Sprayed Ceramic Thermal Barrier Coatings with High Infrared Reflectance. <i>International Journal of Applied Ceramic Technology</i> , <b>2012</b> , 9, 561-574	2	25
163	Improving Powder Injection in Plasma Spraying by Optical Diagnostics of the Plasma and Particle Characterization. <i>Journal of Thermal Spray Technology</i> , <b>2011</b> , 20, 3-11	2.5	25
162	Tailored microstructures of gadolinium zirconate/YSZ multi-layered thermal barrier coatings produced by suspension plasma spray: Durability and erosion testing. <i>Journal of Materials Processing Technology</i> , <b>2019</b> , 264, 283-294	5.3	25
161	Performance of YSZ and Gd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> /YSZ double layer thermal barrier coatings in burner rig tests. <i>Journal of the European Ceramic Society</i> , <b>2020</b> , 40, 480-490	6	25
160	Impact of Al <sub>2</sub> O <sub>3</sub> -40 wt.% TiO <sub>2</sub> feedstock powder characteristics on the sprayability, microstructure and mechanical properties of plasma sprayed coatings. <i>Journal of the European Ceramic Society</i> , <b>2019</b> , 39, 5391-5402	6	24
159	Environmental resistance of Cr <sub>2</sub> AlC MAX phase under thermal gradient loading using a burner rig. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 1841-1846	3.8	24

158	Advanced crystallographic study of the columnar growth of YZS coatings produced by PS-PVD. <i>Journal of the European Ceramic Society</i> , <b>2018</b> , 38, 2449-2453	6	24
157	Modelling of arc behaviour inside a F4 APS torch. <i>Journal Physics D: Applied Physics</i> , <b>2006</b> , 39, 3323-3331	3	24
156	Metal-Glass Based Composites for Novel TBC-Systems. <i>Materialwissenschaft Und Werkstofftechnik</i> , <b>2001</b> , 32, 669-672	0.9	24
155	Plasma spraying of efficient photoactive TiO <sub>2</sub> coatings. <i>Surface and Coatings Technology</i> , <b>2013</b> , 220, 40-43	4.4	23
154	Manufacturing of high performance solid oxide fuel cells (SOFCs) with atmospheric plasma spraying (APS) and plasma spray-physical vapor deposition (PS-PVD). <i>Surface and Coatings Technology</i> , <b>2017</b> , 318, 170-177	4.4	23
153	Modeling precursor diffusion and reaction of atomic layer deposition in porous structures. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2015</b> , 33, 01A104	2.9	22
152	High-temperature oxidation and compressive strength of Cr <sub>2</sub> AlC MAX phase foams with controlled porosity. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 542-552	3.8	22
151	Self-healing atmospheric plasma sprayed Mn <sub>1.0</sub> Co <sub>1.9</sub> Fe <sub>0.1</sub> O <sub>4</sub> protective interconnector coatings for solid oxide fuel cells. <i>Journal of Power Sources</i> , <b>2017</b> , 363, 185-192	8.9	22
150	Cycling Performance of a Columnar-Structured Complex Perovskite in a Temperature Gradient Test. <i>Journal of Thermal Spray Technology</i> , <b>2015</b> , 24, 1205-1212	2.5	22
149	Thermal cycling testing of TBCs on Cr <sub>2</sub> AlC MAX phase substrates. <i>Surface and Coatings Technology</i> , <b>2018</b> , 340, 17-24	4.4	21
148	Plasma Spray Physical Vapor Deposition of La <sub>1-x</sub> Sr <sub>x</sub> Co <sub>y</sub> Fe <sub>1-y</sub> O <sub>3</sub> Thin-Film Oxygen Transport Membrane on Porous Metallic Supports. <i>Journal of Thermal Spray Technology</i> , <b>2014</b> , 23, 213-219	2.5	21
147	Impact of processing conditions and feedstock characteristics on thermally sprayed MCrAlY bondcoat properties. <i>Surface and Coatings Technology</i> , <b>2017</b> , 318, 114-121	4.4	21
146	In situ SANS study of pore microstructure in YSZ thermal barrier coatings. <i>Acta Materialia</i> , <b>2004</b> , 52, 3305-3312	5.3	21
145	Preliminary study on the TriplexProE200 gun for atmospheric plasma spraying of yttria-stabilized zirconia. <i>Surface and Coatings Technology</i> , <b>2008</b> , 202, 4374-4381	4.4	20
144	Atmospheric Plasma Spraying of Single Phase Lanthanum Zirconate Thermal Barrier Coatings with Optimized Porosity. <i>Coatings</i> , <b>2016</b> , 6, 49	2.9	19
143	Cold spray deposition of Cr <sub>2</sub> AlC MAX phase for coatings and bond-coat layers. <i>Journal of the European Ceramic Society</i> , <b>2019</b> , 39, 860-867	6	19
142	Sintering behavior of columnar thermal barrier coatings deposited by axial suspension plasma spraying (SPS). <i>Journal of the European Ceramic Society</i> , <b>2019</b> , 39, 482-490	6	19
141	Influence of Feedstock Powder Modification by Heat Treatments on the Properties of APS-Sprayed Al <sub>2</sub> O <sub>3</sub> -40% TiO <sub>2</sub> Coatings. <i>Journal of Thermal Spray Technology</i> , <b>2018</b> , 27, 654-666	2.5	18

140	Monte Carlo simulation of column growth in plasma spray physical vapor deposition process. <i>Surface and Coatings Technology</i> , <b>2018</b> , 335, 188-197	4.4	18
139	Development of W-coating with functionally graded W/EUROFER-layers for protection of First-Wall materials. <i>Fusion Engineering and Design</i> , <b>2018</b> , 128, 58-67	1.7	18
138	Suspension plasma spraying of TiO <sub>2</sub> for the manufacture of photovoltaic cells. <i>Surface and Coatings Technology</i> , <b>2009</b> , 203, 2146-2149	4.4	18
137	Partial Evaporation of Strontium Zirconate During Atmospheric Plasma Spraying. <i>Journal of Thermal Spray Technology</i> , <b>2009</b> , 18, 694-701	2.5	18
136	Potential of nanocrystalline low-Z materials for plasma facing, structural applications in fusion reactors. <i>Journal of Nuclear Materials</i> , <b>1996</b> , 233-237, 708-712	3.3	18
135	Manufacturing of Composite Coatings by Atmospheric Plasma Spraying Using Different Feed-Stock Materials as YSZ and MoSi <sub>2</sub> . <i>Journal of Thermal Spray Technology</i> , <b>2017</b> , 26, 708-716	2.5	17
134	Vacuum plasma spraying of functionally graded tungsten/EUROFER97 coatings for fusion applications. <i>Fusion Engineering and Design</i> , <b>2018</b> , 133, 148-156	1.7	17
133	Conditions for nucleation and growth in the substrate boundary layer at plasma spray-physical vapor deposition (PS-PVD). <i>Surface and Coatings Technology</i> , <b>2019</b> , 371, 417-427	4.4	17
132	MCrAlY Bondcoats by High-Velocity Atmospheric Plasma Spraying. <i>Journal of Thermal Spray Technology</i> , <b>2014</b> , 23, 140-146	2.5	17
131	Process Design and Monitoring for Plasma Sprayed Abradable Coatings. <i>Journal of Thermal Spray Technology</i> , <b>2010</b> , 19, 756-764	2.5	17
130	Controlling the oxygen contents in vacuum plasma sprayed metal alloy coatings. <i>Surface and Coatings Technology</i> , <b>2007</b> , 201, 4796-4799	4.4	17
129	Synthesis of Ti <sub>3</sub> SiC <sub>2</sub> MAX phase powder by a molten salt shielded synthesis (MS3) method in air. <i>Journal of the European Ceramic Society</i> , <b>2019</b> , 39, 3651-3659	6	16
128	Scale Formation of Alloy 602 CA During Isothermal Oxidation at 800±100 °C in Different Types of Water Vapor Containing Atmospheres. <i>Oxidation of Metals</i> , <b>2015</b> , 84, 661-694	1.6	16
127	Systematic Investigation on the Influence of Spray Parameters on the Mechanical Properties of Atmospheric Plasma-Sprayed YSZ Coatings. <i>Journal of Thermal Spray Technology</i> , <b>2018</b> , 27, 566-580	2.5	16
126	Aging of atmospherically plasma sprayed chromium evaporation barriers. <i>Surface and Coatings Technology</i> , <b>2016</b> , 291, 115-122	4.4	16
125	Decomposition of Ba(Mg <sub>1/3</sub> Ta <sub>2/3</sub> )O <sub>3</sub> perovskite during atmospheric plasma spraying. <i>Surface and Coatings Technology</i> , <b>2012</b> , 206, 2515-2520	4.4	16
124	La <sub>0.8</sub> Be <sub>0.2</sub> O oxygen transport membranes on metal supports deposited by low pressure plasma spraying-physical vapour deposition. <i>Journal of Membrane Science</i> , <b>2013</b> , 442, 119-123	9.6	16
123	Deposition of La <sub>1-x</sub> Sr <sub>x</sub> Fe <sub>1-y</sub> Co <sub>y</sub> O <sub>3-δ</sub> Coatings with Different Phase Compositions and Microstructures by Low-Pressure Plasma Spraying-Thin Film (LPPS-TF) Processes. <i>Journal of Thermal Spray Technology</i> , <b>2012</b> , 21, 441-447	2.5	16

122	Comparison of atmospheric plasma sprayed anode layers for SOFCs using different feedstock. <i>Journal of Thermal Spray Technology</i> , <b>2006</b> , 15, 593-597	2.5	16
121	Cr <sub>2</sub> AlC MAX phase as bond coat for thermal barrier coatings: Processing, testing under thermal gradient loading, and future challenges. <i>Journal of the American Ceramic Society</i> , <b>2020</b> , 103, 2362-2375	3.8	16
120	Fabrication of Oxide Dispersion Strengthened Bond Coats with Low Al <sub>2</sub> O <sub>3</sub> Content. <i>Journal of Thermal Spray Technology</i> , <b>2017</b> , 26, 868-879	2.5	15
119	Architecture designs for extending thermal cycling lifetime of suspension plasma sprayed thermal barrier coatings. <i>Ceramics International</i> , <b>2019</b> , 45, 18471-18479	5.1	15
118	Investigation on growth mechanisms of columnar structured YSZ coatings in Plasma Spray-Physical Vapor Deposition (PS-PVD). <i>Journal of the European Ceramic Society</i> , <b>2019</b> , 39, 3129-3138	6	15
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