

Robert Vassen

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.

247
papers

9,460
citations

53
h-index

89
g-index

260
ext. papers

10,929
ext. citations

3.8
avg, IF

6.47
L-index

#	Paper	IF	Citations
247	Coated single crystal superalloys: processing, characterization, and modeling of protective coatings 2022 , 283-338		0
246	Effect of Low-CTE Oxide-Dispersion-Strengthened Bond Coats on Columnar-Structured YSZ Coatings. <i>Coatings</i> , 2022 , 12, 396	2.9	0
245	Degradation and lifetime of self-healing thermal barrier coatings containing MoSi ₂ as self-healing particles in thermo-cycling testing. <i>Surface and Coatings Technology</i> , 2022 , 437, 128353	4.4	0
244	A Perspective on Thermally Sprayed Thermal Barrier Coatings: Current Status and Trends. <i>Journal of Thermal Spray Technology</i> , 2022 , 31, 685-698	2.5	2
243	Influence of Substrate Removal Method on the Properties of Free-Standing YSZ Coatings. <i>Coatings</i> , 2021 , 11, 449	2.9	1
242	Processing and oxidation response of Cr ₂ AlC MAX-phase composites containing ceramic fibers. <i>Open Ceramics</i> , 2021 , 6, 100090	3.3	1
241	Columnar Thermal Barrier Coatings Produced by Different Thermal Spray Processes. <i>Journal of Thermal Spray Technology</i> , 2021 , 30, 1437-1452	2.5	6
240	Correlation of Process Conditions, Porosity Levels and Crystallinity in Atmospherically Plasma Sprayed Yb ₂ Si ₂ O ₇ Environmental Barrier Coatings. <i>Journal of Composites Science</i> , 2021 , 5, 198	3	1
239	Synthesis, sintering, and effect of surface roughness on oxidation of submicron Ti ₂ AlC ceramics. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 1669-1688	3.8	7
238	Influence of Process Parameters on the Aerosol Deposition (AD) of Yttria-Stabilized Zirconia Particles. <i>Journal of Thermal Spray Technology</i> , 2021 , 30, 488-502	2.5	3
237	Unique performance of thermal barrier coatings made of yttria-stabilized zirconia at extreme temperatures (>1500°C). <i>Journal of the American Ceramic Society</i> , 2021 , 104, 463-471	3.8	8
236	Mechanism for breakaway oxidation of the Ti ₂ AlC MAX phase. <i>Acta Materialia</i> , 2021 , 215, 117025	8.4	3
235	Microstructure and phase composition evolution of silicon-hafnia feedstock during plasma spraying and following cyclic oxidation. <i>Acta Materialia</i> , 2021 , 214, 117007	8.4	2
234	Determining Interface Fracture Toughness in Multi Layered Environmental Barrier Coatings with Laser Textured Silicon Bond Coat. <i>Coatings</i> , 2021 , 11, 55	2.9	1
233	Improved Adhesion of Different Environmental Barrier Coatings on Al ₂ O ₃ /Al ₂ O ₃ -Ceramic Matrix Composites. <i>Advanced Engineering Materials</i> , 2020 , 22, 2000087	3.5	4
232	Thermal barrier coatings with novel architectures for diesel engine applications. <i>Surface and Coatings Technology</i> , 2020 , 396, 125950	4.4	13
231	Thermal fatigue behavior of functionally graded W/EUROFER-layer systems using a new test apparatus. <i>Fusion Engineering and Design</i> , 2020 , 154, 111550	1.7	4

230	Correlation of Microstructure and Properties of Cold Gas Sprayed INCONEL 718 Coatings. <i>Journal of Thermal Spray Technology</i> , 2020 , 29, 1455-1465	2.5	9
229	An investigation on burner rig testing of environmental barrier coatings for aerospace applications. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 6236-6240	6	5
228	Short SiC fiber/Ti ₃ SiC ₂ MAX phase composites: Fabrication and creep evaluation. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 7072-7081	3.8	6
227	Compressive creep of SiC whisker/Ti ₃ SiC ₂ composites at high temperature in air. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 5952-5965	3.8	6
226	Resistance of pure and mixed rare earth silicates against calcium-magnesium-aluminosilicate (CMAS): A comparative study. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 7056-7071	3.8	11
225	In situ investigation of atmospheric plasma-sprayed MnCoFeO ₄ by synchrotron X-ray nano-tomography. <i>Journal of Materials Science</i> , 2020 , 55, 12725-12736	4.3	0
224	Thermal Spray Processes for the Repair of Gas Turbine Components. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901237	3.5	6
223	Phase Transformation-Induced Changes in Microstructure and Residual Stresses in Thermally Sprayed MnCoFeO ₄ Protective Coatings. <i>Journal of Thermal Spray Technology</i> , 2020 , 29, 1242-1255	2.5	3
222	Development progress of coating first wall components with functionally graded W/EUROFER layers on laboratory scale. <i>Nuclear Fusion</i> , 2020 , 60, 126004	3.3	6
221	Performance of wear resistant MCrAlY coatings with oxide dispersion strengthening. <i>Wear</i> , 2020 , 444-445, 203116	3.5	3
220	Thermal cycling performances of multilayered yttria-stabilized zirconia/gadolinium zirconate thermal barrier coatings. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 2048-2061	3.8	12
219	Coatings with Columnar Microstructures for Thermal Barrier Applications. <i>Advanced Engineering Materials</i> , 2020 , 22, 1900988	3.5	12
218	High-velocity water vapor corrosion of Yb-silicate: Sprayed vs. sintered body. <i>Scripta Materialia</i> , 2020 , 178, 468-471	5.6	11
217	Cr ₂ 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> , 2020 , 103, 2362-2375	3.8	16
216	High-temperature materials for power generation in gas turbines 2020 , 3-62		5
215	Degradation of zirconia in moisture. <i>Corrosion Science</i> , 2020 , 176, 109038	6.8	2
214	Performance of YSZ and Gd ₂ Zr ₂ O ₇ /YSZ double layer thermal barrier coatings in burner rig tests. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 480-490	6	25
213	Crystal structure analysis and high-temperature phase transitions of complex rare-earth perovskite, La ₂ (Al _{1/2} MgTa _{1/2})O ₆ . <i>Journal of the American Ceramic Society</i> , 2020 , 103, 1404-1413	3.8	3

212	Cr2AlC MAX phase foams by replica method. <i>Materials Letters</i> , 2019 , 240, 271-274	3.3	12
211	Mechanical characterisation of the protective Al2O3 scale in Cr2AlC MAX phases. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 5149-5155	6	6
210	YAlO3/Al2O3 Novel Environmental Barrier Coating for Al2O3/Al2O3-Ceramic Matrix Composites. <i>Coatings</i> , 2019 , 9, 609	2.9	6
209	Impact of Al2O3-40 wt.% TiO2 feedstock powder characteristics on the sprayability, microstructure and mechanical properties of plasma sprayed coatings. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 5391-5402	6	24
208	Microtensile creep testing of freestanding MCrAlY bond coats. <i>Journal of Materials Research</i> , 2019 , 34, 2643-2652	2.5	1
207	Surface roughening of Al2O3/Al2O3-ceramic matrix composites by nanosecond laser ablation prior to thermal spraying. <i>Journal of Laser Applications</i> , 2019 , 31, 022018	2.1	7
206	Architecture designs for extending thermal cycling lifetime of suspension plasma sprayed thermal barrier coatings. <i>Ceramics International</i> , 2019 , 45, 18471-18479	5.1	15
205	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> , 2019 , 39, 3129-3138	6	15
204	Water vapor corrosion test using supersonic gas velocities. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 6850-6862	3.8	5
203	Synthesis of Ti3SiC2 MAX phase powder by a molten salt shielded synthesis (MS3) method in air. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 3651-3659	6	16
202	Thermo-mechanical response of FG tungsten/EUROFER multilayer under high thermal loads. <i>Journal of Nuclear Materials</i> , 2019 , 519, 137-144	3.3	8
201	Evolution of porosity, crack density, and CMAS penetration in thermal barrier coatings subjected to burner rig testing. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 6163-6175	3.8	9
200	Lanthanum tungstate membranes for H2 extraction and CO2 utilization: Fabrication strategies based on sequential tape casting and plasma-spray physical vapor deposition. <i>Separation and Purification Technology</i> , 2019 , 219, 100-112	8.3	13
199	A constitutive model for the sintering of suspension plasma-sprayed thermal barrier coating with vertical cracks. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 6202-6212	3.8	4
198	Molten salt shielded synthesis of oxidation prone materials in air. <i>Nature Materials</i> , 2019 , 18, 465-470	27	69
197	Conditions for nucleation and growth in the substrate boundary layer at plasma spray-physical vapor deposition (PS-PVD). <i>Surface and Coatings Technology</i> , 2019 , 371, 417-427	4.4	17
196	Oxide Dispersion Strengthened Bond Coats with Higher Alumina Content: Oxidation Resistance and Influence on Thermal Barrier Coating Lifetime. <i>Oxidation of Metals</i> , 2019 , 92, 167-194	1.6	6
195	Emergence and impact of Al2TiO5 in Al2O3-TiO2 APS coatings. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 480, 012007	0.4	5

194	Miniaturization of low cycle fatigue-testing of single crystal superalloys at high temperature for uncoated and coated specimens. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2019 , 50, 777-787	0.9	2
193	Influence of Different Annealing Atmospheres on the Mechanical Properties of Freestanding MCrAlY Bond Coats Investigated by Micro-Tensile Creep Tests. <i>Metals</i> , 2019 , 9, 692	2.3	2
192	PS-PVD Processing of Single-Phase Lanthanum Tungstate Layers for Hydrogen-Related Applications. <i>Journal of Thermal Spray Technology</i> , 2019 , 28, 1554-1564	2.5	2
191	Environmental Barrier Coatings Made by Different Thermal Spray Technologies. <i>Coatings</i> , 2019 , 9, 784	2.9	12
190	Microstructure and phase evolution of atmospheric plasma sprayed Mn-Co-Fe oxide protection layers for solid oxide fuel cells. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 449-460	6	14
189	Cold spray deposition of Cr ₂ AlC MAX phase for coatings and bond-coat layers. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 860-867	6	19
188	Superior cyclic life of thermal barrier coatings with advanced bond coats on single-crystal superalloys. <i>Surface and Coatings Technology</i> , 2019 , 361, 150-158	4.4	13
187	Cold gas spraying of Ti-48Al-2Cr-2Nb intermetallic for jet engine applications. <i>Surface and Coatings Technology</i> , 2019 , 371, 203-210	4.4	4
186	Effect of processing on high-velocity water vapor recession behavior of Yb-silicate environmental barrier coatings. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 1507-1513	6	27
185	Sintering behavior of columnar thermal barrier coatings deposited by axial suspension plasma spraying (SPS). <i>Journal of the European Ceramic Society</i> , 2019 , 39, 482-490	6	19
184	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> , 2019 , 264, 283-294	5.3	25
183	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> , 2018 , 27, 566-580	2.5	16
182	Influence of Feedstock Powder Modification by Heat Treatments on the Properties of APS-Sprayed Al ₂ O ₃ -40% TiO ₂ Coatings. <i>Journal of Thermal Spray Technology</i> , 2018 , 27, 654-666	2.5	18
181	Environmental resistance of Cr ₂ AlC MAX phase under thermal gradient loading using a burner rig. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 1841-1846	3.8	24
180	Thermal cycling testing of TBCs on Cr ₂ AlC MAX phase substrates. <i>Surface and Coatings Technology</i> , 2018 , 340, 17-24	4.4	21
179	Tailoring columnar microstructure of axial suspension plasma sprayed TBCs for superior thermal shock performance. <i>Materials and Design</i> , 2018 , 144, 192-208	8.1	46
178	Advanced crystallographic study of the columnar growth of YZS coatings produced by PS-PVD. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 2449-2453	6	24
177	Monte Carlo simulation of column growth in plasma spray physical vapor deposition process. <i>Surface and Coatings Technology</i> , 2018 , 335, 188-197	4.4	18

176	Study of stability of microstructure and residual strain after thermal loading of plasma sprayed YSZ by through surface neutron scanning. <i>Physica B: Condensed Matter</i> , 2018 , 551, 69-78	2.8	5
175	Development of W-coating with functionally graded W/EUROFER-layers for protection of First-Wall materials. <i>Fusion Engineering and Design</i> , 2018 , 128, 58-67	1.7	18
174	High-temperature oxidation and compressive strength of Cr ₂ AlC MAX phase foams with controlled porosity. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 542-552	3.8	22
173	Sintering resistance of advanced plasma-sprayed thermal barrier coatings with strain-tolerant microstructures. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 5092-5100	6	32
172	Vacuum plasma spraying of functionally graded tungsten/EUROFER97 coatings for fusion applications. <i>Fusion Engineering and Design</i> , 2018 , 133, 148-156	1.7	17
171	A TEM Investigation of Columnar-Structured Thermal Barrier Coatings Deposited by Plasma Spray-Physical Vapor Deposition (PS-PVD). <i>Plasma Chemistry and Plasma Processing</i> , 2018 , 38, 791-802	3.6	10
170	High-temperature behavior of oxide dispersion strengthening CoNiCrAlY. <i>Materials at High Temperatures</i> , 2018 , 35, 108-119	1.1	11
169	Determination of interface toughness of functionally graded tungsten/EUROFER multilayer at 550 °C by analytical and experimental methods. <i>Engineering Fracture Mechanics</i> , 2018 , 202, 487-499	4.2	8
168	Laser Cladding of Embedded Sensors for Thermal Barrier Coating Applications. <i>Coatings</i> , 2018 , 8, 176	2.9	7
167	Investigations on the Nature of Ceramic Deposits in Plasma Spray Physical Vapor Deposition. <i>Journal of Thermal Spray Technology</i> , 2017 , 26, 83-92	2.5	30
166	Isothermal and cyclic oxidation behavior of free standing MCrAlY coatings manufactured by high-velocity atmospheric plasma spraying. <i>Surface and Coatings Technology</i> , 2017 , 313, 191-201	4.4	48
165	Manufacturing of Composite Coatings by Atmospheric Plasma Spraying Using Different Feed-Stock Materials as YSZ and MoSi ₂ . <i>Journal of Thermal Spray Technology</i> , 2017 , 26, 708-716	2.5	17
164	Recent developments in plasma spray processes for applications in energy technology. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 181, 012001	0.4	4
163	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> , 2017 , 324, 36-47	4.4	26
162	Investigation of the resistance of open-column-structured PS-PVD TBCs to erosive and high-temperature corrosive attack. <i>Surface and Coatings Technology</i> , 2017 , 324, 222-235	4.4	34
161	Monitoring and Improving the Reliability of Plasma Spray Processes. <i>Journal of Thermal Spray Technology</i> , 2017 , 26, 799-810	2.5	6
160	Yb ₂ Si ₂ O ₇ Environmental Barrier Coatings Deposited by Various Thermal Spray Techniques: A Preliminary Comparative Study. <i>Journal of Thermal Spray Technology</i> , 2017 , 26, 1011-1024	2.5	54
159	Fabrication of Oxide Dispersion Strengthened Bond Coats with Low Al ₂ O ₃ Content. <i>Journal of Thermal Spray Technology</i> , 2017 , 26, 868-879	2.5	15

158	Correlation of splat morphologies with porosity and residual stress in plasma-sprayed YSZ coatings. <i>Surface and Coatings Technology</i> , 2017 , 318, 157-169	4.4	62
157	Erosion Performance of Gadolinium Zirconate-Based Thermal Barrier Coatings Processed by Suspension Plasma Spray. <i>Journal of Thermal Spray Technology</i> , 2017 , 26, 108-115	2.5	35
156	Functional performance of Gd ₂ Zr ₂ O ₇ /YSZ multi-layered thermal barrier coatings deposited by suspension plasma spray. <i>Surface and Coatings Technology</i> , 2017 , 318, 208-216	4.4	57
155	Self-healing atmospheric plasma sprayed Mn _{1.0} Co _{1.9} Fe _{0.1} O ₄ protective interconnector coatings for solid oxide fuel cells. <i>Journal of Power Sources</i> , 2017 , 363, 185-192	8.9	22
154	Excitation Temperature and Constituent Concentration Profiles of the Plasma Jet Under Plasma Spray-PVD Conditions. <i>Plasma Chemistry and Plasma Processing</i> , 2017 , 37, 1293-1311	3.6	8
153	Ceramic Top Coats of Plasma-Sprayed Thermal Barrier Coatings: Materials, Processes, and Properties. <i>Journal of Thermal Spray Technology</i> , 2017 , 26, 992-1010	2.5	170
152	Diffusion-Related SOFC Stack Degradation. <i>ECS Transactions</i> , 2017 , 78, 2223-2230	1	3
151	Diagnostics of Cold-Sprayed Particle Velocities Approaching Critical Deposition Conditions. <i>Journal of Thermal Spray Technology</i> , 2017 , 26, 1423-1433	2.5	15
150	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> , 2017 , 318, 170-177	4.4	23
149	Simulation of the effect of the porous support on flux through an asymmetric oxygen transport membrane. <i>Journal of Membrane Science</i> , 2017 , 524, 334-343	9.6	11
148	Impact of processing conditions and feedstock characteristics on thermally sprayed MCrAlY bondcoat properties. <i>Surface and Coatings Technology</i> , 2017 , 318, 114-121	4.4	21
147	Residual Stress Depth Distributions for Atmospheric Plasma Sprayed MnCo _{1.9} Fe _{0.1} O ₄ Spinel Layers on Crofer Steel Substrate. <i>Materials Science Forum</i> , 2017 , 905, 174-181	0.4	2
146	Application of High-Velocity Oxygen-Fuel (HVOF) Spraying to the Fabrication of Yb-Silicate Environmental Barrier Coatings. <i>Coatings</i> , 2017 , 7, 55	2.9	14
145	Development of YSZ Thermal Barrier Coatings Using Axial Suspension Plasma Spraying. <i>Coatings</i> , 2017 , 7, 120	2.9	53
144	Near Net Shaping of Monolithic and Composite MAX Phases by Injection Molding. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 3210-3213	3.8	14
143	Effect of Plasma Enthalpy on the Structure of La ₂ Zr ₂ O ₇ Coatings Prepared by Suspension Plasma Spraying. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 1086-1091	3.8	6
142	The Role of Oxygen Partial Pressure in Controlling the Phase Composition of La _{1-x} Sr _x Co _y Fe _{1-y} O ₃ Oxygen Transport Membranes Manufactured by Means of Plasma Spray-Physical Vapor Deposition. <i>Journal of Thermal Spray Technology</i> , 2016 , 25, 631-638	2.5	4
141	Gadolinium zirconate/YSZ thermal barrier coatings: Mixed-mode interfacial fracture toughness and sintering behavior. <i>Surface and Coatings Technology</i> , 2016 , 286, 119-128	4.4	33

140	Aging of atmospherically plasma sprayed chromium evaporation barriers. <i>Surface and Coatings Technology</i> , 2016 , 291, 115-122	4.4	16
139	Atomic-layer-controlled deposition of TEMAZ/O ₂ /rO ₂ oxidation resistance inner surface coatings for solid oxide fuel cells. <i>Surface and Coatings Technology</i> , 2016 , 288, 211-220	4.4	14
138	Controlling the stress state of La _{1-x} Sr _x Co _y Fe _{1-y} O ₃ oxygen transport membranes on porous metallic supports deposited by plasma spray physical vapor process. <i>Journal of Membrane Science</i> , 2016 , 503, 1-7	9.6	10
137	Probabilistic lifetime model for atmospherically plasma sprayed thermal barrier coating systems. <i>Mechanics of Materials</i> , 2016 , 93, 199-208	3.3	15
136	Atmospheric Plasma Spraying of Single Phase Lanthanum Zirconate Thermal Barrier Coatings with Optimized Porosity. <i>Coatings</i> , 2016 , 6, 49	2.9	19
135	The 2016 Thermal Spray Roadmap. <i>Journal of Thermal Spray Technology</i> , 2016 , 25, 1376-1440	2.5	165
134	Investigations on the Initial Stress Evolution During Atmospheric Plasma Spraying of YSZ by In Situ Curvature Measurement. <i>Journal of Thermal Spray Technology</i> , 2016 , 25, 672-683	2.5	12
133	Reaction Behavior of the Li-N-H Hydrogen Storage System with Boron Nitride as an Additive. <i>Metallurgical and Materials Transactions E</i> , 2015 , 2, 50-57		
132	Preparation and sintering behaviour of La _{5.4} WO ₁₂ asymmetric membranes with optimised microstructure for hydrogen separation. <i>Journal of Membrane Science</i> , 2015 , 492, 439-451	9.6	29
131	Modelling and proper evaluation of volumetric kinetics of hydrogen desorption by metal hydrides. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 10111-10122	6.7	5
130	Effects of Feedstock Decomposition and Evaporation on the Composition of Suspension Plasma-Sprayed Coatings. <i>Journal of Thermal Spray Technology</i> , 2015 , 24, 1187-1194	2.5	11
129	Isothermal aging of a β -strengthened Co-Al-W alloy coated with vacuum plasma-sprayed MCrAlY bond coats. <i>Surface and Coatings Technology</i> , 2015 , 276, 360-367	4.4	7
128	Three-Dimensional, Fibrous Lithium Iron Phosphate Structures Deposited by Magnetron Sputtering. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 22594-600	9.5	15
127	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> , 2015 , 84, 661-694	1.6	16
126	Modelling and evaluation of hydrogen desorption kinetics controlled by surface reaction and bulk diffusion for magnesium hydride. <i>RSC Advances</i> , 2015 , 5, 5363-5371	3.7	6
125	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> , 2015 , 33, 01A104	2.9	22
124	Novel opportunities for thermal spray by PS-PVD. <i>Surface and Coatings Technology</i> , 2015 , 268, 52-57	4.4	66
123	Development of Functionally Graded Tungsten/EUROFER Coating System for First Wall Application. <i>Fusion Science and Technology</i> , 2015 , 68, 578-581	1.1	15

122	Porosity-Property Relationships of Plasma-Sprayed Gd ₂ Zr ₂ O ₇ /YSZ Thermal Barrier Coatings. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 2647-2654	3.8	79
121	Cycling Performance of a Columnar-Structured Complex Perovskite in a Temperature Gradient Test. <i>Journal of Thermal Spray Technology</i> , 2015 , 24, 1205-1212	2.5	22
120	Influence of titanium nitride interlayer on the morphology, structure and electrochemical performance of magnetron-sputtered lithium iron phosphate thin films. <i>Journal of Power Sources</i> , 2015 , 281, 326-333	8.9	10
119	Evolution of microstructure and mechanical properties of coated Co-base superalloys during heat treatment and thermal exposure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 628, 374-381	5.3	11
118	Ceramic materials for H ₂ transport membranes applicable for gas separation under coal-gasification-related conditions. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 2381-2389	6	28
117	MCrAlY Bondcoats by High-Velocity Atmospheric Plasma Spraying. <i>Journal of Thermal Spray Technology</i> , 2014 , 23, 140-146	2.5	17
116	Deposition and Oxidation of Oxide-Dispersed CoNiCrAlY Bondcoats. <i>Journal of Thermal Spray Technology</i> , 2014 , 23, 147-153	2.5	6
115	Multi-layer thin-film electrolytes for metal supported solid oxide fuel cells. <i>Journal of Power Sources</i> , 2014 , 256, 52-60	8.9	45
114	Improved Thermal Cycling Durability of Thermal Barrier Coatings Manufactured by PS-PVD. <i>Journal of Thermal Spray Technology</i> , 2014 , 23, 182-189	2.5	71
113	Effects of thermal cycling parameters on residual stresses in alumina scales of CoNiCrAlY and NiCoCrAlY bond coats. <i>Surface and Coatings Technology</i> , 2014 , 258, 608-614	4.4	8
112	Simulation of the effect of realistic surface textures on thermally induced topcoat stress fields by two-dimensional interface functions. <i>Surface and Coatings Technology</i> , 2014 , 258, 181-188	4.4	9
111	Columnar-Structured Mg-Al-Spinel Thermal Barrier Coatings (TBCs) by Suspension Plasma Spraying (SPS). <i>Journal of Thermal Spray Technology</i> , 2014 , 24, 144	2.5	8
110	Plasma Spraying of Ceramics with Particular Difficulties in Processing. <i>Journal of Thermal Spray Technology</i> , 2014 , 24, 30	2.5	7
109	Plasma Spray Physical Vapor Deposition of La _{1-x} Sr _x Co _y Fe _{1-y} O ₃ Thin-Film Oxygen Transport Membrane on Porous Metallic Supports. <i>Journal of Thermal Spray Technology</i> , 2014 , 23, 213-219	2.5	21
108	Gadolinium Zirconate/YSZ Thermal Barrier Coatings: Plasma Spraying, Microstructure, and Thermal Cycling Behavior. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 4045-4051	3.8	104
107	High-precision green densities of thick films and their correlation with powder, ink, and film properties. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 3897-3916	6	3
106	Thermal Barrier Coatings 2014 , 95-115		1
105	Investigation and Comparison of In-Flight Particle Velocity During the Plasma-Spray Process as Measured by Laser Doppler Anemometry and DPV-2000. <i>Journal of Thermal Spray Technology</i> , 2013 , 22, 892-900	2.5	13

104	JTST Special Issue on Coatings for Energy Applications <i>Journal of Thermal Spray Technology</i> , 2013 , 22, 558-558	2.5	
103	Process Conditions and Microstructures of Ceramic Coatings by Gas Phase Deposition Based on Plasma Spraying. <i>Journal of Thermal Spray Technology</i> , 2013 , 22, 83-89	2.5	70
102	LaBr ₃ Co oxygen transport membranes on metal supports deposited by low pressure plasma spraying-physical vapour deposition. <i>Journal of Membrane Science</i> , 2013 , 442, 119-123	9.6	16
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