Chris Berndt

List of Publications by Year
in descending order

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230	11,150	26630	37204
papers	citations	56 h-index	96 g-index

245	245	245	7990
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Multifunctional cold spray coatings for biological and biomedical applications: A review. Progress in Surface Science, 2022, 97, 100654.	8.3	27
2	Antibacterial Longevity of a Novel Gallium Liquid Metal/Hydroxyapatite Composite Coating Fabricated by Plasma Spray. ACS Applied Materials & Interfaces, 2022, 14, 18974-18988.	8.0	24
3	Nano- and micro-mechanical properties and corrosion performance of a HVOF sprayed AlCoCrFeNi high-entropy alloy coating. Journal of Alloys and Compounds, 2022, 912, 165000.	5.5	19
4	Tribological and corrosion performance of an atmospheric plasma sprayed AlCoCr0.5Ni high-entropy alloy coating. Wear, 2022, 506-507, 204443.	3.1	12
5	Multiscale mechanical performance and corrosion behaviour of plasma sprayed AlCoCrFeNi high-entropy alloy coatings. Journal of Alloys and Compounds, 2021, 854, 157140.	5.5	107
6	Carbide dissolution in WC-17Co thermal spray coatings: Part 1-project concept and as-sprayed coatings. Journal of Alloys and Compounds, 2021, 856, 157464.	5.5	21
7	Numerical modelling of particle impact and residual stresses in cold sprayed coatings: A review. Surface and Coatings Technology, 2021, 409, 126835.	4.8	63
8	Baghdadite coating formed by hybrid water-stabilized plasma spray for bioceramic applications: Mechanical and biological evaluations. Materials Science and Engineering C, 2021, 122, 111873.	7.3	11
9	Thermally induced metallurgical transformations in WC-17Co thermal spray coatings as a function of carbide dissolution: Part 2 - Heat-treated coatings. International Journal of Refractory Metals and Hard Materials, 2021, 96, 105486.	3.8	14
10	Sliding Wear of Conventional and Suspension Sprayed Nanocomposite WC-Co Coatings: An Invited Review. Journal of Thermal Spray Technology, 2021, 30, 800-861.	3.1	36
11	Evaluating the influence of microstructural attributes: Fraction, composition, size and spatial distribution of phases on the oxidation behaviour of high-entropy alloys. Corrosion Science, 2021, 184, 109381.	6.6	27
12	Boride-based ultra-high temperature ceramic coatings deposited via controlled atmosphere plasma spray. Surface and Coatings Technology, 2021, 416, 127128.	4.8	7
13	Corrosion and mechanical performance of HVOF WC-based coatings with alloyed nickel binder for use in marine hydraulic applications. Surface and Coatings Technology, 2021, 418, 127239.	4.8	23
14	Strengthening mechanisms in CrMoNbTiW refractory high entropy alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 819, 141503.	5.6	34
15	Mechanical performance and residual stress of WC-Co coatings manufactured by Kinetic Metallizationâ„¢. Surface and Coatings Technology, 2021, 421, 127359.	4.8	12
16	Development of high entropy alloys in Australia: a review. Australian Journal of Mechanical Engineering, 2021, 19, 692-698.	2.1	1
17	Influence of Cold Spray Parameters on Bonding Mechanisms: A Review. Metals, 2021, 11, 2016.	2.3	31
18	Micro- to nano-scale chemical and mechanical mapping of antimicrobial-resistant fungal biofilms. Nanoscale, 2020, 12, 19888-19904.	5.6	12

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19	Surface Engineering: Applications for Advanced Manufacturing. Jom, 2020, 72, 4574-4575.	1.9	1
20	Optimization of modulation-assisted drilling of Ti-6Al-4V aerospace alloy via response surface method. Materials and Manufacturing Processes, 2020, 35, 1313-1329.	4.7	12
21	Thermal Spray High-Entropy Alloy Coatings: A Review. Journal of Thermal Spray Technology, 2020, 29, 857-893.	3.1	162
22	Mechanical Properties of Strontiumâ€“Hardystoniteâ€“Gahnite Coating Formed by Atmospheric Plasma Spray. Coatings, 2019, 9, 759.	2.6	9
23	2D layered organicâ€“inorganic heterostructures for clean energy applications. Journal of Materials Chemistry A, 2018, 6, 3824-3849.	10.3	51
24	Application of High-Density Electropulsing to Improve the Performance of Metallic Materials: Mechanisms, Microstructure and Properties. Materials, 2018, 11, 185.	2.9	64
25	Influence of charged defects on the interfacial bonding strength of tantalum- and silver-doped nanograined TiO₂. Physical Chemistry Chemical Physics, 2017, 19, 11881-11891.	2.8	10
26	Structural and mechanical properties of magnetron-sputtered Alâ€“Au thin films. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	3
27	Tantalum- and Silver-Doped Titanium Dioxide Nanosheets Film: Influence on Interfacial Bonding Structure and Hardness of the Surface System. Industrial & Engineering Chemistry Research, 2017, 56, 434-439.	3.7	13
28	The 2016 Thermal Spray Roadmap. Journal of Thermal Spray Technology, 2016, 25, 1376-1440.	3.1	243
29	Development of Processing Windows for HVOF Carbide-Based Coatings. Journal of Thermal Spray Technology, 2016, 25, 28-35.	3.1	27
30	Nanolaminated composite materials: structure, interface role and applications. RSC Advances, 2016, 6, 109361-109385.	3.6	50
31	Manufacturing of nickel based cermet coatings by the HVOF process. Surface Engineering, 2016, 32, 713-724.	2.2	20
32	New Approaches to the Study of Spinel Ferrite Nanoparticles for Biomedical Applications. , 2016, , 1417-1441.		2
33	Fabrication and Characterization of Nanoporous Niobia, and Nanotubular Tantala, Titania and Zirconia via Anodization. Journal of Functional Biomaterials, 2015, 6, 153-170.	4.4	40
34	Nanocomposite coatings: thermal spray processing, microstructure and performance. International Materials Reviews, 2015, 60, 195-244.	19.3	55
35	Plasma-Sprayed High Entropy Alloys: Microstructure and Properties of AlCoCrFeNi and MnCoCrFeNi. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 791-800.	2.2	149
36	Development of Surface Nano-Crystallization in Alloys by Surface Mechanical Attrition Treatment (SMAT). Critical Reviews in Solid State and Materials Sciences, 2015, 40, 164-181.	12.3	85

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37	Thermal spray forming of titanium and its alloys. , 2015, , 425-446.		10
38	Modular implementation of artificial neural network in predicting in-flight particle characteristics of an atmospheric plasma spray process. Engineering Applications of Artificial Intelligence, 2015, 45, 57-70.	8.1	18
39	Determination of the Mechanical Properties of Plasma-Sprayed Hydroxyapatite Coatings Using the Knoop Indentation Technique. Journal of Thermal Spray Technology, 2015, 24, 865-877.	3.1	18
40	Cell response and bioactivity of titaniaâ€“zirconiaâ€“zirconium titanate nanotubes with different nanoscale topographies fabricated in a non-aqueous electrolyte. Biomaterials Science, 2015, 3, 636-644.	5.4	14
41	New Approaches to the Study of Spinel Ferrite Nanoparticles for Biomedical Applications. , 2015, , 1-21.		2
42	The influence of titaniaâ€“zirconiaâ€“zirconium titanate nanotube characteristics on osteoblast cell adhesion. Acta Biomaterialia, 2015, 12, 281-289.	8.3	56
43	Investigating the anisotropic mechanical properties of plasma sprayed yttria-stabilised zirconia coatings. Surface and Coatings Technology, 2014, 259, 551-559.	4.8	19
44	Deformation and Energy Absorption of Composite Sandwich Beams. Key Engineering Materials, 2014, 626, 468-473.	0.4	2
45	A Review of Hydroxyapatite Coatings Manufactured by Thermal Spray. Springer Series in Biomaterials Science and Engineering, 2014, , 267-329.	1.0	37
46	Behavior of <scp>CFRC</scp>/<scp>A</scp>l Foam Composite Sandwich Beams under Threeâ€Point Bending. Advanced Engineering Materials, 2014, 16, 9-14.	3.5	7
47	Analysis of EMAA Splats on Glass and Mild Steel Substrates. Journal of Thermal Spray Technology, 2014, 23, 317-324.	3.1	5
48	A review on hybrid nanolaminate materials synthesized by deposition techniques for energy storage applications. Journal of Materials Chemistry A, 2014, 2, 3695-3708.	10.3	96
49	Fabrication and characterization of TiO₂â€“ZrO₂â€“ZrTiO₄nanotubes on TiZr alloy manufactured via anodization. Journal of Materials Chemistry B, 2014, 2, 71-83.	5.8	33
50	Investigation of bacterial attachment on hydroxyapatite-coated titanium and tantalum. International Journal of Surface Science and Engineering, 2014, 8, 255.	0.4	15
51	Biocompatibility of transition metal-substituted cobalt ferrite nanoparticles. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	48
52	A review of testing methods for thermal spray coatings. International Materials Reviews, 2014, 59, 179-223.	19.3	138
53	Topographical and Microstructural Property Evolution of Air Plasmaâ€Sprayed Zirconia Thermal Barrier Coatings. Journal of the American Ceramic Society, 2014, 97, 1218-1225.	3.8	4
54	Evaluation of the mechanical properties of plasma sprayed hydroxyapatite coatings. Applied Surface Science, 2014, 303, 155-162.	6.1	42

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55	An Extreme Learning Machine Algorithm to Predict the In-flight Particle Characteristics of an Atmospheric Plasma Spray Process. Plasma Chemistry and Plasma Processing, 2013, 33, 993-1023.	2.4	9
56	Thermal Spray Maps: Material Genomics of Processing Technologies. Journal of Thermal Spray Technology, 2013, 22, 1170-1183.	3.1	32
57	Transition metal-substituted cobalt ferrite nanoparticles for biomedical applications. Acta Biomaterialia, 2013, 9, 5830-5837.	8.3	284
58	Quantification and Taxonomy of Pores in Thermal Spray Coatings by Image Analysis and Stereology Approach. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 4844-4858.	2.2	14
59	Review on the Oxidation of Metallic Thermal Sprayed Coatings: A Case Study with Reference to Rare-Earth Permanent Magnetic Coatings. Journal of Thermal Spray Technology, 2013, 22, 1069-1091.	3.1	27
60	Void Formation and Spatial Distribution in Plasma Sprayed Nd-Fe-B Coatings. Journal of Thermal Spray Technology, 2013, 22, 337-344.	3.1	4
61	Influence of the different organic chelating agents on the topography, physical properties and phase of SPPS-deposited spinel ferrite splats. Applied Surface Science, 2013, 284, 171-178.	6.1	10
62	Effects of standoff distance on porosity, phase distribution and mechanical properties of plasma sprayed Ndâ€“Feâ€“B coatings. Surface and Coatings Technology, 2013, 216, 127-138.	4.8	18
63	Effect of the chelating agent contents on the topography, composition and phase of SPPS-deposited cobalt ferrite splats. Surface and Coatings Technology, 2013, 232, 247-253.	4.8	11
64	Cell response of anodized nanotubes on titanium and titanium alloys. Journal of Biomedical Materials Research - Part A, 2013, 101A, 2726-2739.	4.0	159
65	Microstructure, composition and hardness of laser-assisted hydroxyapatite and Ti-6Al-4V composite coatings. Surface and Coatings Technology, 2013, 232, 482-488.	4.8	29
66	Effect of Power and Stand-Off Distance on Plasma Sprayed Hydroxyapatite Coatings. Materials and Manufacturing Processes, 2013, 28, 1279-1285.	4.7	34
67	Ethylene Methacrylic Acid (EMAA) Single Splat Morphology. Coatings, 2013, 3, 82-97.	2.6	9
68	Feedstock Material Considerations for Thermal Spray. , 2013, , 93-120.		0
69	Biological Performances of Titanium Scaffolds: A Review. Advanced Materials Research, 2012, 535-537, 1634-1637.	0.3	0
70	Microstructural and antibacterial properties of zinc-substituted cobalt ferrite nanopowders synthesized by sol-gel methods. Journal of Applied Physics, 2012, 112, .	2.5	90
71	Effect of Zinc Substitution on Microstructure and Antibacterial Properties of Cobalt Ferrite Nanopowders Synthesized by Sol-Gel Methods. Advanced Materials Research, 2012, 535-537, 436-439.	0.3	11
72	Improving the Generalization Ability of an Artificial Neural Network in Predicting In-Flight Particle Characteristics of an Atmospheric Plasma Spray Process. Journal of Thermal Spray Technology, 2012, 21, 935-949.	3.1	18

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73	Influence of Titanium Alloying Element Substrata on Bacterial Adhesion. Advanced Materials Research, 2012, 535-537, 992-995.	0.3	1
74	Spreading Behavior and Morphology of Ethylene Methacrylic Acid (EMAA) Deposits via the Flame Spray Process. Coatings, 2012, 2, 76-93.	2.6	6
75	A review of the application of anodization for the fabrication of nanotubes on metal implant surfaces. Acta Biomaterialia, 2012, 8, 2875-2888.	8.3	359
76	Modeling the Coverage of Splat Areas Arising from Thermal Spray Processes. Journal of the American Ceramic Society, 2012, 95, 1572-1580.	3.8	4
77	Effect of substrate temperature on the splat formation of flame sprayed polypropylene. Surface and Coatings Technology, 2011, 206, 1180-1187.	4.8	8
78	Artificial Neural Network application for predicting in-flight particle characteristics of an atmospheric plasma spray process. Surface and Coatings Technology, 2011, 205, 4886-4895.	4.8	38
79	Intelligent system for prediction and control: Application in plasma spray process. Expert Systems With Applications, 2011, 38, 260-271.	7.6	18
80	Selection of the implant and coating materials for optimized performance by means of nanoindentation. Acta Biomaterialia, 2011, 7, 874-881.	8.3	63
81	Deposition effects of WC particle size on cold sprayed WCâ€“Co coatings. Surface and Coatings Technology, 2011, 205, 3260-3267.	4.8	83
82	Design and manufacture of Ndâ€“Feâ€“B thick coatings by the thermal spray process. Surface and Coatings Technology, 2011, 205, 4697-4704.	4.8	9
83	Splat taxonomy of polymeric thermal spray coating. Surface and Coatings Technology, 2011, 205, 5028-5034.	4.8	14
84	Microscopic observation of laser glazed yttria-stabilized zirconia coatings. Applied Surface Science, 2010, 256, 6213-6218.	6.1	70
85	Yield stress and zeta potential of washed and highly spherical oxide dispersions â€” Critical zeta potential and Hamaker constant. Powder Technology, 2010, 198, 114-119.	4.2	40
86	Splat formation of polypropylene flame sprayed onto a flat surface. Surface and Coatings Technology, 2010, 205, 2518-2524.	4.8	15
87	Corrosion and oxidation properties of NiCr coatings sprayed in presence of gas shroud system. Applied Surface Science, 2010, 256, 4322-4327.	6.1	36
88	Using Artificial Neural Network to predict the particle characteristics of an Atmospheric Plasma Spray process. , 2010, , .		1
89	IFTHSE Global 21: heat treatment and surface engineering in the twenty-first century Part 10 â€“ Thermal spray coatings: a technology review. International Heat Treatment and Surface Engineering, 2010, 4, 7-13.	0.2	28
90	Impact of Nanoscale Roughness of Titanium Thin Film Surfaces on Bacterial Retention. Langmuir, 2010, 26, 1973-1982.	3.5	177

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91	Plasma-Enhanced Synthesis of Bioactive Polymeric Coatings from Monoterpene Alcohols: A Combined Experimental and Theoretical Study. Biomacromolecules, 2010, 11, 2016-2026.	5.4	63
92	Bacterial attachment response to nanostructured titanium surfaces. , 2010, , .		2
93	Effect of ultrafine-grained titanium surfaces on adhesion of bacteria. Applied Microbiology and Biotechnology, 2009, 83, 925-937.	3.6	100
94	Artificial Neural Networks vs. Fuzzy Logic: Simple Tools to Predict and Control Complex Processesâ€"Application to Plasma Spray Processes. Journal of Thermal Spray Technology, 2008, 17, 365-376.	3.1	29
95	Enhanced thick thermal barrier coatings that exhibit varying porosity. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 476, 1-7.	5.6	31
96	Fabrication of a novel organic polymer thin film. Thin Solid Films, 2008, 516, 3884-3887.	1.8	50
97	Metal Ions Solubility in Plant Phosphoric AcidDegree of Ammonia Neutralization and Temperature Effects. Industrial & Engineering Chemistry Research, 2008, 47, 1380-1385.	3.7	4
98	Effect of Nanostructured Thermal Spray Coatings on Fatigue Behavior of Low-Carbon Steel. , 2008, , .		0
99	Fatigue and mechanical properties of nanostructured and conventional titania (TiO2) thermal spray coatings. Surface and Coatings Technology, 2007, 201, 7589-7596.	4.8	66
100	Mechanical property variations within thermal barrier coatings. Surface and Coatings Technology, 2007, 202, 362-369.	4.8	35
101	Erosion behavior of thermal sprayed, recycled polymer and ethyleneâ€"methacrylic acid composite coatings. Wear, 2007, 262, 274-281.	3.1	15
102	Fatigue and deformation of HVOF sprayed WCâ€"Co coatings and hard chrome plating. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 456, 114-119.	5.6	69
103	Materials properties of barricade bricks for mining applications. Geotechnical and Geological Engineering, 2007, 25, 449-471.	1.7	12
104	Activism in Thermal Spray: A Call to Arms!. Journal of Thermal Spray Technology, 2007, 16, 167-167.	3.1	0
105	The End of the Beginning; Now Letâ€™s Make a Real Effort!. Journal of Thermal Spray Technology, 2007, 16, 320-320.	3.1	0
106	One Way to Pick â€œLow-Hanging Fruitâ€•Is To Chop the Tree Down!. Journal of Thermal Spray Technology, 2007, 16, 465-465.	3.1	0
107	Nanostructured and conventional YSZ coatings deposited using APS and TTPR techniques. Surface and Coatings Technology, 2006, 201, 338-346.	4.8	53
108	Image-based extended finite element modeling of thermal barrier coatings. Surface and Coatings Technology, 2006, 201, 2369-2380.	4.8	48

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109	Thermal Spray: Preserving 100 Years Of Technology. Journal of Thermal Spray Technology, 2006, 15, 5-8.	3.1	2
110	Ammonium phosphate slurry rheology and particle propertiesâ€"The influence of Fe(III) and Al(III) impurities, solid concentration and degree of neutralization. Chemical Engineering Science, 2006, 61, 5856-5866.	3.8	13
111	Effects of Supercritical Carbon Dioxide on Phase Homogeneity, Morphology, and Mechanical Properties of Poly(styrene-blend-ethylene-stat-vinyl acetate). Macromolecules, 2005, 38, 9180-9186.	4.8	5
112	Mechanical and erosion properties of CaCO3-EMAA thermal sprayed coatings. Polymer Engineering and Science, 2004, 44, 1448-1459.	3.1	16
113	Computational Study and Experimental Comparison of the In-Flight Particle Behavior for an External Injection Plasma Spray Process. Journal of Thermal Spray Technology, 2003, 12, 508-522.	3.1	26
114	Peel-strength behavior of bilayer thermal-sprayed polymer coatings. Journal of Applied Polymer Science, 2003, 88, 214-226.	2.6	21
115	Phase, structural and microstructural investigations of plasma sprayed hydroxyapatite coatings. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 360, 70-84.	5.6	174
116	Small-angle neutron scattering study of the role of feedstock particle size on the microstructural behavior of plasma-sprayed yttria-stabilized zirconia deposits. Journal of Materials Research, 2003, 18, 624-634.	2.6	10
117	Hydroxyapatite/polymer composite flame-sprayed coatings for orthopedic applications. Journal of Biomaterials Science, Polymer Edition, 2002, 13, 977-990.	3.5	30
118	Biomedical Application of Apatites. Reviews in Mineralogy and Geochemistry, 2002, 48, 631-672.	4.8	93
119	Surface characteristics and dissolution behavior of plasma-sprayed hydroxyapatite coating. Journal of Biomedical Materials Research Part B, 2002, 62, 228-236.	3.1	123
120	Bimodal distribution of mechanical properties on plasma sprayed nanostructured partially stabilized zirconia. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 327, 224-232.	5.6	184
121	Microstructural characteristics of cold-sprayed nanostructured WCâ€"Co coatings. Thin Solid Films, 2002, 416, 129-135.	1.8	223
122	Deposition efficiency, mechanical properties and coating roughness in cold-sprayed titanium. Journal of Materials Science Letters, 2002, 21, 1687-1689.	0.5	67
123	Influence of Plasma Spray Parameters on the Cracking Behavior of Yttria Stabilized Zirconia Coatings. Journal of Failure Analysis and Prevention, 2001, 1, 55-64.	0.9	2
124	Evaluation of microhardness and elastic modulus of thermally sprayed nanostructured zirconia coatings. Surface and Coatings Technology, 2001, 135, 166-172.	4.8	185
125	Microstructural characterization of yttria-stabilized zirconia plasma-sprayed deposits using multiple small-angle neutron scattering. Acta Materialia, 2001, 49, 1661-1675.	7.9	117
126	Integrity of nanostructured partially stabilized zirconia after plasma spray processing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 313, 75-82.	5.6	147

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127	Material fundamentals and clinical performance of plasma-sprayed hydroxyapatite coatings: A review. Journal of Biomedical Materials Research Part B, 2001, 58, 570-592.	3.1	895
128	Porosity determinations in thermally sprayed hydroxyapatite coatings. Journal of Materials Science, 2001, 36, 3891-3896.	3.7	48
129	Thermal Spray Processing of Nanoscale Materials II. Journal of Thermal Spray Technology, 2001, 10, 147-182.	3.1	16
130	Influence of Plasma Spray Parameters on In-Flight Characteristics of ZrO2?8 wt% Y2O3Ceramic Particles. Journal of the American Ceramic Society, 2001, 84, 685-692.	3.8	28
131	Influence of Plasma Spray Parameters on Formation and Morphology of ZrO2?8 wt% Y2O3Deposits. Journal of the American Ceramic Society, 2001, 84, 693-700.	3.8	32
132	On the size-dependent phase transformation in nanoparticulate zirconia. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 286, 169-178.	5.6	236
133	Influence of plasma spray parameters on mechanical properties of yttria stabilized zirconia coatings. I: Four point bend test. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 284, 29-40.	5.6	82
134	Influence of plasma spray parameters on mechanical properties of yttria stabilized zirconia coatings. II: Acoustic emission response. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 284, 41-50.	5.6	51
135	Composite Coatings of Si₃N₄-Soda Lime Silica Produced by the Thermal Spray Process. Journal of Materials Engineering and Performance, 2000, 9, 603-608.	2.5	8
136	Deformation of Plasma Sprayed Thermal Barrier Coatings. Journal of Engineering for Gas Turbines and Power, 2000, 122, 387-392.	1.1	8
137	Effects of Pores on Mechanical Properties of Plasmaâ€Sprayed Ceramic Coatings. Journal of the American Ceramic Society, 2000, 83, 578-584.	3.8	123
138	Modelling of elastic constants of plasma spray deposits with ellipsoid-shaped voids. Acta Materialia, 1999, 47, 1575-1586.	7.9	65
139	Evolution of the void structure in plasma-sprayed YSZ deposits during heating. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 272, 215-221.	5.6	88
140	Relationships between the mode II fracture toughness and microstructure of thermal spray coatings. Surface and Coatings Technology, 1999, 114, 114-128.	4.8	37
141	Quantitative Evaluation of Void Distributions within a Plasmaâ€Sprayed Ceramic. Journal of the American Ceramic Society, 1999, 82, 17-21.	3.8	49
142	Nondestructive Determination of Thickness and Elastic Modulus of Plasma Spray Coatings Using Laser Ultrasonics. , 1999, , 373-380.		3
143	Deformation of Plasma Sprayed Thermal Barrier Coatings. , 1999, , .		0
144	The effect of high-velocity oxygen fuel, thermally sprayed WCâ€“Co coatings on the high-cycle fatigue of aluminium alloy and steel. Journal of Materials Science, 1998, 33, 3095-3100.	3.7	16

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145	Oxyapatite in hydroxyapatite coatings. Journal of Materials Science, 1998, 33, 3985-3991.	3.7	94
146	Microstructural Index to Quantify Thermal Spray Deposit Microstructures Using Image Analysis. Journal of Thermal Spray Technology, 1998, 7, 229-241.	3.1	30
147	Amorphous phase formation in plasma-sprayed hydroxyapatite coatings. , 1998, 39, 407-414.		192
148	Thermal processing of hydroxyapatite for coating production. Journal of Biomedical Materials Research Part B, 1998, 39, 580-587.	3.1	211
149	Thermal Conductivity of a Zirconia Thermal Barrier Coating. Journal of Thermal Spray Technology, 1998, 7, 43-46.	3.1	63
150	Long-term engineering properties of recycled plastic lumber used in pier construction. Resources, Conservation and Recycling, 1998, 23, 243-258.	10.8	45
151	Physical and relaxation properties of flame-sprayed ethylene-methacrylic acid copolymer. Polymer Engineering and Science, 1998, 38, 1873-1881.	3.1	10
152	Acoustic emission studies on thermal spray materials. Surface and Coatings Technology, 1998, 102, 1-7.	4.8	22
153	Thermal expansion properties of metallic and cermet coatings. Surface and Coatings Technology, 1998, 102, 19-24.	4.8	13
154	Effects of thermal gradient and residual stresses on thermal barrier coating fracture. Mechanics of Materials, 1998, 27, 91-110.	3.2	101
155	Indentation Response of Molybdenum Disilicide. Journal of Materials Research, 1998, 13, 2662-2671.	2.6	22
156	Thermal Analysis of Amorphous Phases in Hydroxyapatite Coatings. Journal of the American Ceramic Society, 1998, 81, 106-112.	3.8	173
157	Nanomaterial Deposits Formed by DC Plasma Spraying of Liquid Feedstocks. Journal of the American Ceramic Society, 1998, 81, 121-128.	3.8	88
158	Thermal processing of hydroxyapatite for coating production. , 1998, 39, 580.		2
159	Thermal processing of hydroxyapatite for coating production. Journal of Biomedical Materials Research Part B, 1998, 39, 580-587.	3.1	3
160	Thermal Conductivity of a Zirconia Thermal Barrier Coating. Journal of Thermal Spray Technology, 1998, 7, 43-46.	3.1	2
161	Variability of hydroxyapatite-coated dental implants. International Journal of Oral and Maxillofacial Implants, 1998, 13, 601-10.	1.4	27
162	Phase Transformation as a Function of Particle Size in Nanocrystalline Zirconia. Materials Research Society Symposia Proceedings, 1997, 481, 613.	0.1	4

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163	Preparation of nanophase materials by thermal spray processing of liquid precursors. Scripta Materialia, 1997, 9, 137-140.	0.5	79
164	Nanomaterial powders and deposits prepared by flame spray processing of liquid precursors. Scripta Materialia, 1997, 8, 61-74.	0.5	107
165	Influence of Spray Angle on the Pore and Crack Microstructure of Plasmaâ€Sprayed Deposits. Journal of the American Ceramic Society, 1997, 80, 733-742.	3.8	97
166	The coalescence of combustion-sprayed ethyleneâ€“methacrylic acid copolymer. Journal of Materials Science, 1997, 32, 2099-2106.	3.7	22
167	Mercury intrusion porosimetry of plasma-sprayed ceramic. Journal of Materials Science, 1997, 32, 3925-3932.	3.7	35
168	Characterization of the closed porosity in plasma-sprayed alumina. Journal of Materials Science, 1997, 32, 3407-3410.	3.7	15
169	Quality control of the intrinsic deposition efficiency from the controls of the splat morphologies and the deposit microstructure. Journal of Thermal Spray Technology, 1997, 6, 153-166.	3.1	25
170	Alumina-base plasma-sprayed materialsâ€”Part II: Phase transformations in aluminas. Journal of Thermal Spray Technology, 1997, 6, 439-444.	3.1	42
171	Tensile toughness test and high temperature fracture analysis of thermal barrier coatings. Acta Materialia, 1997, 45, 1767-1784.	7.9	67
172	Plasma spray synthesis of nanomaterial powders and deposits. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 238, 275-286.	5.6	181
173	Evaluation of off-angle thermal spray. Surface and Coatings Technology, 1997, 89, 213-224.	4.8	56
174	Effects of the spray angle on splat morphology during thermal spraying. Surface and Coatings Technology, 1997, 91, 107-115.	4.8	77
175	Characteristics of the liquid flame spray process. Surface and Coatings Technology, 1997, 90, 210-216.	4.8	113
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