Bill Clyne

List of Publications by Year in descending order

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RILL CLYNE

#	Article	IF	CITATIONS
1	Plasma sprayed hydroxyapatite coatings on titanium substrates Part 1: Mechanical properties and residual stress levels. Biomaterials, 1998, 19, 2015-2029.	11.4	482
2	The quenching stress in thermally sprayed coatings. Thin Solid Films, 1991, 200, 49-66.	1.8	452
3	An analytical model for predicting residual stresses in progressively deposited coatings Part 1: Planar geometry. Thin Solid Films, 1997, 306, 23-33.	1.8	367
4	Porosity in plasma electrolytic oxide coatings. Acta Materialia, 2006, 54, 1985-1993.	7.9	351
5	A review of recent work on discharge characteristics during plasma electrolytic oxidation of various metals. International Materials Reviews, 2019, 64, 127-162.	19.3	341
6	The effect of heat treatment on the stiffness of zirconia top coats in plasma-sprayed TBCs. Acta Materialia, 2001, 49, 1565-1575.	7.9	335
7	Characterisation of discharge events during plasma electrolytic oxidation. Surface and Coatings Technology, 2009, 203, 3410-3419.	4.8	304
8	Thermo-physical properties of plasma electrolytic oxide coatings on aluminium. Surface and Coatings Technology, 2005, 199, 168-176.	4.8	287
9	Characterisation of carbon nano-onions using Raman spectroscopy. Chemical Physics Letters, 2003, 373, 52-56.	2.6	252
10	Surface roughness of diamond-like carbon films prepared using various techniques. Surface and Coatings Technology, 2001, 138, 23-32.	4.8	240
11	The effect of cell wall microstructure on the deformation and fracture of aluminium-based foams. Acta Materialia, 2001, 49, 1677-1686.	7.9	224
12	A critical appraisal of the extraction of creep parameters from nanoindentation data obtained at room temperature. Acta Materialia, 2006, 54, 5489-5499.	7.9	211
13	A sintering model for plasma-sprayed zirconia TBCs. Part I: Free-standing coatings. Acta Materialia, 2009, 57, 980-992.	7.9	185
14	Plasma sprayed hydroxyapatite coatings on titanium substrates Part 2: optimisation of coating properties. Biomaterials, 1998, 19, 2031-2043.	11.4	182
15	The thermal conductivity of plasma electrolytic oxide coatings on aluminium and magnesium. Surface and Coatings Technology, 2005, 199, 177-183.	4.8	159
16	Heat Transfer Through Plasma-Sprayed Thermal Barrier Coatings in Gas Turbines: A Review of Recent Work. Journal of Thermal Spray Technology, 2009, 18, 809-821.	3.1	143
17	Oxygen transport by gas permeation through the zirconia layer in plasma sprayed thermal barrier coatings. Surface and Coatings Technology, 2004, 184, 311-321.	4.8	135
18	Mullite-rich plasma electrolytic oxide coatings for thermal barrier applications. Surface and Coatings Technology, 2007, 201, 8683-8687.	4.8	131

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19	Porous materials for thermal management under extreme conditions. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2006, 364, 125-146.	3.4	110
20	Measurement and modelling of the nanoindentation response of shape memory alloys. Acta Materialia, 2006, 54, 5607-5615.	7.9	107
21	Sintering characteristics of plasma sprayed zirconia coatings containing different stabilisers. Surface and Coatings Technology, 2009, 203, 1069-1074.	4.8	100
22	Fracture behaviour of ceramic laminates in bending—I. Modelling of crack propagation. Acta Metallurgica Et Materialia, 1993, 41, 805-817.	1.8	99
23	Drainage in standing liquid metal foams: modelling and experimental observations. Acta Materialia, 2004, 52, 3047-3058.	7.9	95
24	Application of a three-dimensional heat flow model to treat laser drilling of carbon fibre composites. Acta Materialia, 1998, 46, 4273-4285.	7.9	93
25	A simple development of the shear lag theory appropriate for composites with a relatively small modulus mismatch. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1989, 122, 183-192.	5.6	92
26	An Alî—,Fe intermetallic phase formed during controlled solidification. Scripta Metallurgica, 1981, 15, 1211-1216.	1.2	91
27	Effect of individual discharge cascades on the microstructure of plasma electrolytic oxidation coatings. Applied Surface Science, 2016, 389, 260-269.	6.1	88
28	Energy absorption during projectile perforation of thin steel plates and the kinetic energy of ejected fragments. International Journal of Impact Engineering, 2009, 36, 1250-1258.	5.0	85
29	A sintering model for plasma-sprayed zirconia thermal barrier coatings. Part II: Coatings bonded to a rigid substrate. Acta Materialia, 2009, 57, 993-1003.	7.9	85
30	High speed video evidence for localised discharge cascades during plasma electrolytic oxidation. Surface and Coatings Technology, 2015, 269, 125-130.	4.8	83
31	Mechanical stability of DLC films on metallic substrates: Part l—Film structure and residual stress levels. Thin Solid Films, 1998, 312, 207-218.	1.8	81
32	Melt ejection during laser drilling of metals. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 356, 414-424.	5.6	81
33	A methodology, based on sintering-induced stiffening, for prediction of the spallation lifetime of plasma-sprayed coatings. Acta Materialia, 2013, 61, 579-588.	7.9	81
34	The effect of residual stresses on the debonding of coatings—I. A model for delamination at a bimaterial interface. Acta Metallurgica Et Materialia, 1994, 42, 2823-2836.	1.8	78
35	An Analytical Model for Simulation of Heat Flow in Plasma-Sprayed Thermal Barrier Coatings. Journal of Thermal Spray Technology, 2005, 14, 205-214.	3.1	78
36	Fracture behaviour of ceramic laminates in bending—II. Comparison of model predictions with experimental data. Acta Metallurgica Et Materialia, 1993, 41, 819-827.	1.8	74

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37	Residual Stresses in Surface Coatings and Their Effects on Interfacial Debonding. Key Engineering Materials, 1996, 116-117, 307-330.	0.4	74
38	Laser drilling of cooling holes through plasma sprayed thermal barrier coatings. Surface and Coatings Technology, 2004, 176, 296-306.	4.8	73
39	Raman spectroscopy determination of phases within thermal sprayed hydroxyapatite splats and subsequent in vitro dissolution examination. Acta Materialia, 2004, 52, 445-453.	7.9	72
40	Synchronised electrical monitoring and high speed video of bubble growth associated with individual discharges during plasma electrolytic oxidation. Applied Surface Science, 2015, 359, 405-411.	6.1	72
41	Mechanical and magnetic properties of metal fibre networks, with and without a polymeric matrix. Composites Science and Technology, 2005, 65, 2492-2499.	7.8	69
42	Comparison between stress-strain plots obtained from indentation plastometry, based on residual indent profiles, and from uniaxial testing. Acta Materialia, 2019, 168, 87-99.	7.9	66
43	Investigation of residual stress generation during thermal spraying by continuous curvature measurement. Thin Solid Films, 1994, 250, 172-180.	1.8	65
44	Extraction of plasticity parameters from a single test using a spherical indenter and FEM modelling. Mechanics of Materials, 2017, 105, 112-122.	3.2	65
45	Effects of reinforcement content and shape on cavitation and failure in metal-matrix composites. Composites, 1993, 24, 256-261.	0.7	63
46	A multiple field image analysis procedure for characterisation of fibre alignment in composites. Composites Part A: Applied Science and Manufacturing, 2001, 32, 221-229.	7.6	63
47	Fibre swelling during laser drilling of carbon fibre composites. Optics and Lasers in Engineering, 2006, 44, 1185-1197.	3.8	63
48	Time dependent statistics of plasma discharge parameters during bulk AC plasma electrolytic oxidation of aluminium. Applied Surface Science, 2013, 268, 397-409.	6.1	63
49	An analytical model for predicting residual stresses in progressively deposited coatings Part 2: Cylindrical geometry. Thin Solid Films, 1997, 306, 34-51.	1.8	62
50	Use of quasi-static nanoindentation data to obtain stress–strain characteristics for metallic materials. Acta Materialia, 2010, 58, 3613-3623.	7.9	60
51	Formation and adhesion of hot filament CVD diamond films on titanium substrates. Thin Solid Films, 1997, 293, 261-269.	1.8	59
52	The Effect of a High Thermal Gradient on Sintering and Stiffening in the Top Coat of a Thermal Barrier Coating System. Journal of Thermal Spray Technology, 2004, 13, 370-376.	3.1	59
53	Cell structure, stiffness and permeability of freeze-dried collagen scaffolds in dry and hydrated states. Acta Biomaterialia, 2016, 33, 166-175.	8.3	59
54	Experimental and computational issues for automated extraction of plasticity parameters from spherical indentation. Mechanics of Materials, 2018, 124, 118-131.	3.2	59

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55	Analysis of Tomography Images of Bonded Fibre Networks to Measure Distributions of Fibre Segment Length and Fibre Orientation. Advanced Engineering Materials, 2006, 8, 495-500.	3.5	57
56	Residual Stress Generation during Laser Cladding of Steel with a Particulate Metal Matrix Composite. Advanced Engineering Materials, 2006, 8, 619-624.	3.5	57
57	Extrusion and high-temperature deformation of fibre-reinforced aluminium. Composites Science and Technology, 1989, 35, 121-157.	7.8	55
58	Mechanics of thin ultra-light stainless steel sandwich sheet material. Acta Materialia, 2003, 51, 1341-1350.	7.9	55
59	Johnson-Cook parameter evaluation from ballistic impact data via iterative FEM modelling. International Journal of Impact Engineering, 2018, 112, 180-192.	5.0	55
60	The use of single fibre pushout testing to explore interfacial mechanics in SiC monofilament-reinforced Ti—II. Application of the test to composite material. Acta Metallurgica Et Materialia, 1992, 40, 141-148.	1.8	54
61	Use of nanoindentation to measure residual stresses in surface layers. Acta Materialia, 2011, 59, 2749-2761.	7.9	53
62	Recrystallization in fibrous and particulate metal matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 135, 281-285.	5.6	51
63	Effects of Impurity Content on the Sintering Characteristics of Plasma-Sprayed Zirconia. Journal of Thermal Spray Technology, 2007, 16, 798-803.	3.1	51
64	A procedure for extracting primary and secondary creep parameters from nanoindentation data. Mechanics of Materials, 2013, 65, 124-134.	3.2	50
65	Mechanical stability of DLC films on metallic substrates Part II — Interfacial toughness, debonding and blistering. Thin Solid Films, 1998, 312, 219-227.	1.8	49
66	Residual stress and debonding of DLC films on metallic substrates. Diamond and Related Materials, 1998, 7, 944-950.	3.9	49
67	Magneto-mechanical actuation of bonded ferromagnetic fibre arrays. Acta Materialia, 2005, 53, 877-889.	7.9	49
68	Energy absorption during projectile perforation of lightweight sandwich panels with metallic fibre cores. Composite Structures, 2011, 93, 1089-1095.	5.8	49
69	Sputter deposited barrier coatings on SiC monofilaments for use in reactive metallic matrices—I. Optimisation of barrier structure. Acta Metallurgica Et Materialia, 1991, 39, 427-435.	1.8	48
70	Heat flow in controlled directional solidification of metals. Journal of Crystal Growth, 1980, 50, 684-690.	1.5	47
71	Self-similar scaling of discharge events through PEO coatings on aluminium. Surface and Coatings Technology, 2011, 206, 1051-1061.	4.8	47
72	Properties and Performance of High-Purity Thermal Barrier Coatings. Journal of Thermal Spray Technology, 2007, 16, 804-808.	3.1	46

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73	Production of a highly porous material by liquid phase sintering of short ferritic stainless steel fibres and a preliminary study of its mechanical behaviour. Composites Science and Technology, 2003, 63, 2345-2351.	7.8	43
74	AFM observation of diamond indenters after oxidation at elevated temperatures. Diamond and Related Materials, 2010, 19, 1348-1353.	3.9	43
75	The incorporation of particles suspended in the electrolyte into plasma electrolytic oxidation coatings on Ti and Al substrates. Surface and Coatings Technology, 2020, 385, 125354.	4.8	43
76	The fabrication and properties of metal-matrix composites based on aluminium alloy infiltrated alumina fibre preforms. Composites Science and Technology, 1985, 23, 287-301.	7.8	42
77	Nanoindentation of binary and ternary Ni–Ti-based shape memory alloy thin films. Surface and Coatings Technology, 2008, 202, 3115-3120.	4.8	41
78	Cracking patterns in metal-ceramic laminates: Effects of plasticity. Journal of the Mechanics and Physics of Solids, 1996, 44, 801-821.	4.8	40
79	A critical assessment of the "stable indenter velocity―method for obtaining the creep stress exponent from indentation data. Acta Materialia, 2014, 80, 56-66.	7.9	40
80	Evaluation of residual stress levels in plasma electrolytic oxidation coatings using a curvature method. Surface and Coatings Technology, 2015, 269, 47-53.	4.8	40
81	Modelling of heat flow in solidification. Materials Science and Engineering, 1984, 65, 111-124.	0.1	39
82	The production of anatase-rich photoactive coatings by plasma electrolytic oxidation. Surface and Coatings Technology, 2012, 207, 66-71.	4.8	39
83	Measurement of interfacial fracture energy by single fibre push-out testing and its application to the titanium–silicon carbide system. Acta Materialia, 1998, 46, 3175-3189.	7.9	38
84	A steady-state Bi-substrate technique for measurement of the thermal conductivity of ceramic coatings. Surface and Coatings Technology, 2006, 201, 1414-1420.	4.8	38
85	Critical stress criteria for interfacial cavitation in MMCs. Acta Metallurgica Et Materialia, 1995, 43, 2107-2114.	1.8	37
86	Residual stresses and debonding of diamond films on titanium alloy substrates. Diamond and Related Materials, 1996, 5, 674-681.	3.9	36
87	An analytical model for predicting residual stresses in progressively deposited coatings Part 3: Further development and applications. Thin Solid Films, 1997, 306, 52-61.	1.8	35
88	The fracture energy of metal fibre reinforced ceramic composites (MFCs). Composites Science and Technology, 2011, 71, 266-275.	7.8	35
89	Heat flow in controlled directional solidification of metals. Journal of Crystal Growth, 1980, 50, 691-700.	1.5	34
90	Nanoindentation of a Pseudoelastic NiTiFe Shape Memory Alloy. Advanced Engineering Materials, 2010, 12, 13-19.	3.5	34

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91	Cell adhesion to plasma electrolytic oxidation (PEO) titania coatings, assessed using a centrifuging technique. Journal of the Mechanical Behavior of Biomedical Materials, 2011, 4, 2103-2112.	3.1	34
92	Influence of the composition and viscosity of volcanic ashes on their adhesion within gas turbine aeroengines. Acta Materialia, 2016, 109, 8-16.	7.9	34
93	Characterisation of a glass-fibre reinforced vinylester to steel joint for use between a naval GRP superstructure and a steel hull. Composite Structures, 2002, 57, 59-66.	5.8	33
94	Adhesion of Volcanic Ash Particles under Controlled Conditions and Implications for Their Deposition in Gas Turbines. Advanced Engineering Materials, 2016, 18, 803-813.	3.5	33
95	Profilometryâ€Based Inverse Finite Element Method Indentation Plastometry. Advanced Engineering Materials, 2021, 23, 2100437.	3.5	33
96	The effect of biological fluids on the adhesion of diamond-like carbon films to metallic substrates. Diamond and Related Materials, 1995, 4, 852-856.	3.9	32
97	Nano-impact indentation for high strain rate testing: The influence of rebound impacts. Extreme Mechanics Letters, 2019, 26, 35-39.	4.1	31
98	The compressive strength of highly-aligned carbon-fibre/epoxy composites produced by pultrusion. Composites Science and Technology, 2000, 60, 525-533.	7.8	30
99	Mechanics of thin ultra-light stainless steel sandwich sheet material. Acta Materialia, 2003, 51, 1351-1357.	7.9	30
100	Modelling of transient liquid phase bonding in binary systems—A new parametric study. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 445-446, 493-500.	5.6	28
101	The failure of layered ceramics in bending and tension. Composites, 1994, 25, 524-533.	0.7	27
102	Ferrous Fibre Network Materials for Jet Noise Reduction in Aeroengines Part I: Acoustic Effects. Advanced Engineering Materials, 2008, 10, 192-200.	3.5	27
103	Assessment of a new model for heat flow during unidirectional solidification of metals. International Journal of Heat and Mass Transfer, 1980, 23, 773-782.	4.8	26
104	Stiffness, residual stresses and interfacial fracture energy of diamond films on titanium. Diamond and Related Materials, 1997, 6, 1612-1621.	3.9	25
105	The effect of processing route and reinforcement geometry on isothermal creep behaviour of particulate and short fibre MMCs. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1998, 242, 57-69.	5.6	25
106	Characterisation of impact response of metallic foam/ceramic laminates. Materials Science and Technology, 2000, 16, 785-791.	1.6	25
107	Development and assessment of photo-catalytic membranes for water purification using solar radiation. Applied Surface Science, 2018, 433, 101-107.	6.1	25
108	Mechanical properties of sprayed overlayers on superalloy substrates, obtained via indentation testing. Acta Materialia, 2018, 154, 237-245.	7.9	25

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109	The correlation of interfacial and macroscopic toughness in SiC laminates. Composites, 1993, 24, 166-176.	0.7	24
110	Profilometry-based indentation plastometry to obtain stress-strain curves from anisotropic superalloy components made by additive manufacturing. Materialia, 2021, 15, 101017.	2.7	24
111	Sputter deposited barrier coatings on SiC monofilaments for use in reactive metallic matrices—III. Microstructural stability in composites based on magnesium and titanium. Acta Metallurgica Et Materialia, 1991, 39, 445-452.	1.8	23
112	Sintering Kinetics of Plasma-Sprayed Zirconia TBCs. Journal of Thermal Spray Technology, 2007, 16, 809-815.	3.1	23
113	A Critical Appraisal of the Instrumented Indentation Technique and Profilometryâ€Based Inverse Finite Element Method Indentation Plastometry for Obtaining Stress–Strain Curves. Advanced Engineering Materials, 2021, 23, 2001496.	3.5	23
114	The axial compressive failure of titanium reinforced with silicon carbide monofilaments. Acta Materialia, 1999, 47, 671-687.	7.9	22
115	Optimization of the microstructure of TiO2 photocatalytic surfaces created by Plasma Electrolytic Oxidation of titanium substrates. Surface and Coatings Technology, 2021, 411, 127000.	4.8	22
116	The tensioned push-out test for fibre-matrix interface characterisation under mixed mode loading. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1993, 160, 1-5.	5.6	21
117	Mechanical properties of long-fibre thermoplastic composites with laser drilled microperforations. Composites Science and Technology, 1999, 59, 1169-1180.	7.8	21
118	The effect of interfacial reaction on thermal properties of titanium reinforced with particulate SiC. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 141, 129-138.	5.6	20
119	Ferrous Fibre Network Materials for Jet Noise Reduction in Aeroengines Part II: Thermoâ€Mechanical Stability. Advanced Engineering Materials, 2008, 10, 201-209.	3.5	20
120	Cathodic discharges during high frequency plasma electrolytic oxidation. Surface and Coatings Technology, 2018, 352, 591-599.	4.8	20
121	A simple procedure for the characterization of spray deposition processes — The linescan test. Surface and Coatings Technology, 1990, 41, 103-115.	4.8	18
122	Effect of inter-layer toughness in ballistic protection systems on absorption of projectile energy. International Journal of Impact Engineering, 2015, 76, 75-82.	5.0	18
123	The Effect of Residual Stresses on Stress–Strain Curves Obtained via Profilometryâ€Based Inverse Finite Element Method Indentation Plastometry. Advanced Engineering Materials, 2021, 23, 2001478.	3.5	18
124	The application of scanning laser extensometry to explore thermal cycling creep of metal matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 141, 199-207.	5.6	17
125	Development of the tensioned push-out test for study of fibre/matrix interfaces. Composites, 1994, 25, 637-644.	0.7	17
126	Plasma electrolytic oxidation of aluminium networks to form a metal-cored ceramic composite hybrid material. Composites Science and Technology, 2011, 71, 908-915.	7.8	17

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127	Filtration Performance of Membranes Produced Using Nanoscale Alumina Fibers (NAF). Advanced Engineering Materials, 2012, 14, 1088-1096.	3.5	17
128	Interfacial fracture toughness of vacuum-plasma-sprayed coatings. Surface and Coatings Technology, 1991, 45, 333-342.	4.8	16
129	Reaction-induced changes in interfacial and macroscopic mechanical properties of SiC monofilament-reinforced titanium. Composites, 1993, 24, 222-228.	0.7	16
130	Composite Materials—Reflections on the First Half Century. Physics Today, 1999, 52, 37-41.	0.3	16
131	Optimisation of Metallic Fibre Network Materials for Compact Heat Exchangers. Advanced Engineering Materials, 2008, 10, 210-218.	3.5	16
132	Characterization of the strength and adhesion of diamond films on metallic substrates using a substrate plastic straining technique. Diamond and Related Materials, 1994, 3, 791-798.	3.9	15
133	Quantification of Melt Ejection Phenomena During Laser Drilling. Materials Research Society Symposia Proceedings, 2000, 617, 561.	0.1	15
134	Modelling of gas permeation through ceramic coatings produced by thermal spraying. Acta Materialia, 2008, 56, 874-883.	7.9	15
135	Indentation Plastometry of Very Hard Metals. Advanced Engineering Materials, 2022, 24, .	3.5	15
136	The effect of the interface on the thermal conductivity of titanium-based composites. Composites, 1994, 25, 583-592.	0.7	14
137	Indentation Plastometry of Welds. Advanced Engineering Materials, 2022, 24, .	3.5	14
138	Measurement of melt ejection velocities during laser drilling of steel, using a novel droplet stream interception technique. Acta Materialia, 2002, 50, 4219-4230.	7.9	13
139	The effect of vermiculite on the degradation and spallation of plasma sprayed thermal barrier coatings. Surface and Coatings Technology, 2013, 216, 172-177.	4.8	13
140	Mechanical properties of long-fibre thermoplastic composites with laser drilled microperforations. Composites Science and Technology, 1999, 59, 1181-1187.	7.8	12
141	Energy absorption during failure of layered metal foam/ceramic laminates. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 323, 260-269.	5.6	12
142	A methodology for obtaining plasticity characteristics of metallic coatings via instrumented indentation. International Journal of Solids and Structures, 2016, 80, 128-136.	2.7	12
143	Highly porous hybrid particle-fibre ceramic composite materials for use as diesel particulate filters. Journal of the European Ceramic Society, 2020, 40, 542-551.	5.7	12
144	Hybrid Filtration Membranes incorporating Nanoporous Silica within a Nanoscale Alumina Fibre Scaffold. Advanced Engineering Materials, 2016, 18, 96-104.	3.5	11

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145	Interfacial control and macroscopic failure in long-fibre-reinforced and laminated inorganic composites. Composites Science and Technology, 1994, 51, 271-282.	7.8	10
146	A methodology for obtaining primary and secondary creep characteristics from indentation experiments, using a recess. International Journal of Mechanical Sciences, 2020, 176, 105577.	6.7	10
147	The influence of process parameters on consolidation efficiency when forming composites by spraying onto monofilaments. Acta Metallurgica Et Materialia, 1995, 43, 2541-2550.	1.8	9
148	The Contribution of Bridging Ligament Rupture to Energy Absorption during Fracture of Metal-Ceramic Laminates. Key Engineering Materials, 1996, 127-131, 1127-1136.	0.4	9
149	The Effect of Prior Deformation on the Foaming Behavior of "FORMGRIP―Precursor Material. Advanced Engineering Materials, 2002, 4, 749-752.	3.5	9
150	Extraction of superelasticity parameter values from instrumented indentation via iterative FEM modelling. Mechanics of Materials, 2019, 134, 143-152.	3.2	9
151	Use of the frozen-stress photoelastic method to explore load partitioning in short-fibre composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 135, 173-178.	5.6	8
152	Simulation of the effect of creep on stress fields during vacuum plasma spraying onto titanium substrates. Surface and Coatings Technology, 1994, 64, 61-68.	4.8	8
153	Nanoindentation of palladium–hydrogen. International Journal of Hydrogen Energy, 2012, 37, 14315-14322.	7.1	8
154	Electrical monitoring of crack propagation during quasi-static loading and ballistic impact of alumina plates. Journal of the European Ceramic Society, 2013, 33, 2663-2675.	5.7	8
155	Tribological characterization of diamond-like carbon films on nonledeburitic high-speed steels. Materials Characterization, 2000, 45, 233-239.	4.4	7
156	Effects of temperature and filler content on the creep behaviour of a polyurethane rubber. Mechanics of Materials, 2020, 148, 103461.	3.2	7
157	Microstructure and cooling conditions of steel solidified in the continuous casting mould. Archiv Für Das Eisenhüttenwesen, 1982, 53, 91-96.	0.1	6
158	Instabilities in the vacuum plasma spraying process. Surface and Coatings Technology, 1991, 46, 25-38.	4.8	6
159	Tensile-compressive asymmetry in extruded AZ31B rod and its effect on Profilometry-based Indentation Plastometry (PIP). Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 848, 143429.	5.6	6
160	Intra-crystalline liquation as a result of solute supersaturation in metallic slurries. Acta Metallurgica, 1989, 37, 663-674.	2.1	5
161	Sputter deposited barrier coatings on SiC monofilaments for use in reactive metallic matrices—II. System stress state. Acta Metallurgica Et Materialia, 1991, 39, 437-443.	1.8	5
162	An accelerated buoyancy adhesion assay combined with 3-D morphometric analysis for assessing osteoblast adhesion on microgrooved substrata. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 60, 22-37.	3.1	5

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163	Control over fine scale terrace structures induced on polycrystalline Pd by simple heat treatments in air. Surface and Coatings Technology, 2017, 326, 327-335.	4.8	5
164	Experimental investigation of a multi-stage purification process for metals. Journal of Crystal Growth, 1981, 55, 317-324.	1.5	4
165	Surface preparation of titanium for vacuum plasma spraying and its effect on substrate/coating interfacial fracture toughness. Composites, 1993, 24, 603-610.	0.7	4
166	The effect of biological fluids on the response of DLC films to a novel erosion durability test. Diamond and Related Materials, 1996, 5, 410-414.	3.9	4
167	Path to single-crystalline repair and manufacture of Ni-based superalloy using directional annealing. Surface and Coatings Technology, 2021, 405, 126494.	4.8	4
168	The Gas Permeability of Plasma Sprayed Ceramic Coatings. , 1997, , .		4
169	Toughness of metal fibre/ceramic matrix composites (MFCs) after severe heat treatments. Materials Science and Technology, 2014, 30, 1135-1141.	1.6	3
170	The Effect of Bond Coat Creep on Residual Stresses and Debonding in Plasma Sprayed Thermal Barrier Systems. , 1998, , .		3
171	Metal matrix composites: Processing and interfaces. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1992, 154, 111-112.	5.6	2
172	Possible technique for the characterization of diamond films using an ultrasonic resonance technique. Diamond and Related Materials, 1993, 2, 977-983.	3.9	2
173	Heat Flow Modelling of the Laser Drilling Process as Applied to Unidirectional Carbon Fibre Composites. Materials Research Society Symposia Proceedings, 1998, 526, 155.	0.1	2
174	Evaluation of the fracture energy of magnesium via ballistic impact experiments. Materialia, 2020, 10, 100652.	2.7	2
175	Oxygen Transport Through the Zirconia Top Coat in Thermal Barrier Coating Systems. , 1998, , .		2
176	Theoretical solute redistribution during a modified form of zone refining — cascade purification. Journal of Crystal Growth, 1979, 47, 85-92.	1.5	1
177	Smart materials. Materials Science and Technology, 2014, 30, 1515-1516.	1.6	1
178	The Permeability of Novel Hybrid Fiber Composite Material for Use as Diesel Particulate Filters. Advanced Engineering Materials, 2020, 22, 2000562.	3.5	1
179	A Constitutive Stress–Strain Law for Metals with Sigmoidal Curves. Advanced Engineering Materials, 0, , 2100739	3.5	1
180	Use of Profilometry-Based Indentation Plastometry to Obtain Stress-Strain Curves from Small Superalloy Components Made by Additive Manufacturing. SSRN Electronic Journal, 0, , .	0.4	1

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181	Creep of particle and short fibre reinforced polyurethane rubber. Mechanics of Time-Dependent Materials, 0, , 1.	4.4	1
182	Modeling of Material Redistribution during Melt Route Processing of Metallic Foams. , 2006, , 51-56.		0
183	Materials use by design. Materials Today, 2007, 10, 53.	14.2	0
184	Comparison between Stress-Strain Plots Obtained from Indentation Plastometry, Based on Residual Indent Profiles, and from Uniaxial Testing. SSRN Electronic Journal, 0, , .	0.4	0
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