

# Brian Derby

## List of Publications by Year in descending order

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295  
papers

16,338  
citations

22099

59  
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18075

120  
g-index

304  
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304  
docs citations

304  
times ranked

16735  
citing authors

#	ARTICLE	IF	CITATIONS
1	Inkjet Printing of Functional and Structural Materials: Fluid Property Requirements, Feature Stability, and Resolution. <i>Annual Review of Materials Research</i> , 2010, 40, 395-414.	4.3	1,465
2	Printing and Prototyping of Tissues and Scaffolds. <i>Science</i> , 2012, 338, 921-926.	6.0	962
3	Biofabrication: reappraising the definition of an evolving field. <i>Biofabrication</i> , 2016, 8, 013001.	3.7	523
4	A definition of bioinks and their distinction from biomaterial inks. <i>Biofabrication</i> , 2019, 11, 013001.	3.7	480
5	Biofabrication: A Guide to Technology and Terminology. <i>Trends in Biotechnology</i> , 2018, 36, 384-402.	4.9	465
6	Delivery of human fibroblast cells by piezoelectric drop-on-demand inkjet printing. <i>Biomaterials</i> , 2008, 29, 193-203.	5.7	438
7	The dependence of grain size on stress during dynamic recrystallisation. <i>Acta Metallurgica Et Materialia</i> , 1991, 39, 955-962.	1.9	359
8	Novel collagen scaffolds with predefined internal morphology made by solid freeform fabrication. <i>Biomaterials</i> , 2003, 24, 1487-1497.	5.7	324
9	Vinculin Regulates the Recruitment and Release of Core Focal Adhesion Proteins in a Force-Dependent Manner. <i>Current Biology</i> , 2013, 23, 271-281.	1.8	310
10	Bioprinting: inkjet printing proteins and hybrid cell-containing materials and structures. <i>Journal of Materials Chemistry</i> , 2008, 18, 5717.	6.7	289
11	Inkjet printing ceramics: From drops to solid. <i>Journal of the European Ceramic Society</i> , 2011, 31, 2543-2550.	2.8	289
12	Review: Bioprinting: A Beginning. <i>Tissue Engineering</i> , 2006, 12, 631-634.	4.9	286
13	A Low Curing Temperature Silver Ink for Use in Ink-Jet Printing and Subsequent Production of Conductive Tracks. <i>Macromolecular Rapid Communications</i> , 2005, 26, 315-318.	2.0	285
14	Ink-jet delivery of particle suspensions by piezoelectric droplet ejectors. <i>Journal of Applied Physics</i> , 2005, 97, 094903.	1.1	274
15	Characterizing the elastic properties of tissues. <i>Materials Today</i> , 2011, 14, 96-105.	8.3	273
16	Inkjet Printing of Highly Loaded Particulate Suspensions. <i>MRS Bulletin</i> , 2003, 28, 815-818.	1.7	264
17	Inkjet printing biomaterials for tissue engineering: bioprinting. <i>International Materials Reviews</i> , 2014, 59, 430-448.	9.4	262
18	On dynamic recrystallisation. <i>Scripta Metallurgica</i> , 1987, 21, 879-884.	1.2	243

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19	Direct ink-jet printing and low temperature conversion of conductive silver patterns. <i>Journal of Materials Science</i> , 2006, 41, 4153-4158.	1.7	239
20	Tin(II) Sulfide (SnS) Nanosheets by Liquid-Phase Exfoliation of Herzenbergite: IV-VI Main Group Two-Dimensional Atomic Crystals. <i>Journal of the American Chemical Society</i> , 2015, 137, 12689-12696.	6.6	220
21	Formation and Stability of Lines Produced by Inkjet Printing. <i>Langmuir</i> , 2010, 26, 10365-10372.	1.6	213
22	Two-Step Electrochemical Intercalation and Oxidation of Graphite for the Mass Production of Graphene Oxide. <i>Journal of the American Chemical Society</i> , 2017, 139, 17446-17456.	6.6	211
23	Inkjet Printing of Wax-Based Alumina Suspensions. <i>Journal of the American Ceramic Society</i> , 2001, 84, 2514-2520.	1.9	207
24	Theoretical model for diffusion bonding. <i>Metal Science</i> , 1982, 16, 49-56.	0.7	197
25	Additive Manufacture of Ceramics Components by Inkjet Printing. <i>Engineering</i> , 2015, 1, 113-123.	3.2	184
26	Mechanical properties of porous ceramic scaffolds: Influence of internal dimensions. <i>Ceramics International</i> , 2015, 41, 8425-8432.	2.3	175
27	Screen-Printing of a Highly Conductive Graphene Ink for Flexible Printed Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 32225-32234.	4.0	174
28	Ink Jet Deposition of Ceramic Suspensions: Modeling and Experiments of Droplet Formation. <i>Materials Research Society Symposia Proceedings</i> , 2000, 625, 117.	0.1	168
29	Limits to feature size and resolution in ink jet printing. <i>Journal of the European Ceramic Society</i> , 2009, 29, 913-918.	2.8	155
30	Oil-in-water separation with graphene-based nanocomposite membranes for produced water treatment. <i>Journal of Membrane Science</i> , 2020, 603, 118007.	4.1	144
31	Fully printed high performance humidity sensors based on two-dimensional materials. <i>Nanoscale</i> , 2018, 10, 5599-5606.	2.8	142
32	Experimental study of the parameters for stable drop-on-demand inkjet performance. <i>Physics of Fluids</i> , 2019, 31, .	1.6	136
33	A universal scaling law for the strength of metal micropillars and nanowires. <i>Scripta Materialia</i> , 2009, 61, 524-527.	2.6	130
34	Wetting behaviour in the Al-Si/SiC system: interface reactions and solubility effects. <i>Acta Metallurgica Et Materialia</i> , 1995, 43, 3061-3073.	1.9	126
35	Silicon carbide particle size effects in alumina-based nanocomposites. <i>Acta Materialia</i> , 1996, 44, 4543-4552.	3.8	123
36	Pristine Graphene Aerogels by Room-Temperature Freeze Gelation. <i>Advanced Materials</i> , 2016, 28, 7993-8000.	11.1	123

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37	Wide-Area Strain Sensors based upon Graphene-Polymer Composite Coatings Probed by Raman Spectroscopy. <i>Advanced Functional Materials</i> , 2014, 24, 2865-2874.	7.8	122
38	Growth differentiation factor 6 and transforming growth factor-beta differentially mediate mesenchymal stem cell differentiation, composition, and micromechanical properties of nucleus pulposus constructs. <i>Arthritis Research and Therapy</i> , 2014, 16, R67.	1.6	122
39	Wetting of titanium nitride and titanium carbide by liquid metals. <i>Acta Materialia</i> , 1996, 44, 307-314.	3.8	117
40	Acoustic emission from particulate-reinforced metal matrix composites. <i>Acta Metallurgica Et Materialia</i> , 1993, 41, 1431-1445.	1.9	114
41	A criterion for the determination of monotectic structure. <i>Acta Metallurgica</i> , 1983, 31, 1123-1130.	2.1	102
42	Diffusion bonding: development of theoretical model. <i>Metal Science</i> , 1984, 18, 427-431.	0.7	99
43	The influence of microstructure on the fracture behaviour of particulate metal matrix composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1991, 135, 221-224.	2.6	92
44	The strength of Al <sub>2</sub> O <sub>3</sub> /SiC nanocomposites after grinding and annealing. <i>Acta Materialia</i> , 1998, 46, 3839-3848.	3.8	85
45	Inkjet Printing and Sintering of PZT. <i>Journal of the American Ceramic Society</i> , 2005, 88, 2053-2058.	1.9	85
46	Solid-state fabrication and interfaces of fibre reinforced metal matrix composites. <i>Progress in Materials Science</i> , 1995, 39, 411-495.	16.0	83
47	Fracture of metal/ceramic laminates—I. Transition from single to multiple cracking. <i>Acta Materialia</i> , 1999, 47, 529-543.	3.8	81
48	Controlling Coffee Ring Formation during Drying of Inkjet Printed 2D Inks. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700944.	1.9	78
49	Dynamic recrystallisation: The steady state grain size. <i>Scripta Metallurgica Et Materialia</i> , 1992, 27, 1581-1585.	1.0	76
50	Alumina/Silicon Carbide Nanocomposites by Hybrid Polymer/Powder Processing: Microstructures and Mechanical Properties. <i>Journal of the American Ceramic Society</i> , 1998, 81, 41-48.	1.9	76
51	Fracture of metal/ceramic laminates—II. Crack growth resistance and toughness. <i>Acta Materialia</i> , 1999, 47, 545-563.	3.8	75
52	The deformation of particle reinforced metal matrix composites during temperature cycling. <i>Acta Metallurgica Et Materialia</i> , 1990, 38, 2537-2552.	1.9	73
53	Nanoindentation of histological specimens: Mapping the elastic properties of soft tissues. <i>Journal of Materials Research</i> , 2009, 24, 638-646.	1.2	73
54	Freeform fabrication by controlled droplet deposition of powder filled melts. <i>Journal of Materials Science</i> , 2002, 37, 3155-3161.	1.7	66

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55	Accurate determination of Young's modulus and Poisson's ratio of thin films by a combination of acoustic microscopy and nanoindentation. <i>Thin Solid Films</i> , 2001, 398-399, 299-305.	0.8	65
56	Ink Jet Printing of PZT Aqueous Ceramic Suspensions. <i>Journal of Materials Science Letters</i> , 1999, 18, 87-90.	0.5	63
57	Residual stress and subsurface damage in machined alumina and alumina/silicon carbide nanocomposite ceramics. <i>Acta Materialia</i> , 2001, 49, 507-517.	3.8	63
58	Solution processing of two-dimensional black phosphorus. <i>Chemical Communications</i> , 2017, 53, 1445-1458.	2.2	63
59	Inkjet printing and cell seeding thermoreversible photocurable gel structures. <i>Soft Matter</i> , 2011, 7, 2639.	1.2	61
60	Inkjet Printing of Zirconia: Coffee Staining and Line Stability. <i>Journal of the American Ceramic Society</i> , 2011, 94, 3787-3792.	1.9	61
61	Formation of Coffee Stains on Porous Surfaces. <i>Langmuir</i> , 2012, 28, 5331-5338.	1.6	61
62	Surface mechanical properties of alumina matrix nanocomposites. <i>Acta Materialia</i> , 1997, 45, 3963-3973.	3.8	60
63	Ink Jet Deposition of Ceramic Suspensions: Modeling and Experiments of Droplet Formation. <i>Materials Research Society Symposia Proceedings</i> , 2000, 624, 65.	0.1	59
64	The strength of gold nanowire forests. <i>Scripta Materialia</i> , 2008, 59, 151-154.	2.6	59
65	Influence of Gas Phase Equilibria on the Chemical Vapor Deposition of Graphene. <i>ACS Nano</i> , 2013, 7, 3104-3117.	7.3	59
66	Manufacture of biomaterials by a novel printing process. <i>Journal of Materials Science: Materials in Medicine</i> , 2002, 13, 1163-1166.	1.7	53
67	A Microstructural model for primary creep. <i>Acta Metallurgica</i> , 1987, 35, 1349-1353.	2.1	52
68	Deformation mechanisms in gold nanowires and nanoporous gold. <i>Philosophical Magazine</i> , 2011, 91, 1070-1083.	0.7	52
69	Biomechanical Properties of Human Corneas Following Low- and High-Intensity Collagen Cross-Linking Determined With Scanning Acoustic Microscopy. , 2013, 54, 5273.		52
70	Inkjet printing ultra-large graphene oxide flakes. <i>2D Materials</i> , 2017, 4, 021021.	2.0	49
71	An analysis of thermal residual stresses in Ti-6-4 alloy reinforced with SiC and Al <sub>2</sub> O <sub>3</sub> fibres. <i>Acta Metallurgica Et Materialia</i> , 1994, 42, 1525-1534.	1.9	48
72	Viscosity and Acoustic Behavior of Ceramic Suspensions Optimized for Phase-Change Ink-Jet Printing. <i>Journal of the American Ceramic Society</i> , 2005, 88, 802-808.	1.9	46

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73	Thermal stress induced microcracking in alumina-20% SiCp composites. <i>Acta Materialia</i> , 2004, 52, 1621-1629.	3.8	45
74	Localised micro-mechanical stiffening in the ageing aorta. <i>Mechanisms of Ageing and Development</i> , 2011, 132, 459-467.	2.2	45
75	The role of enhanced matrix dislocation density in strengthening metal matrix composites. <i>Scripta Metallurgica</i> , 1988, 22, 529-532.	1.2	44
76	Supercapacitor Electrodes from the in Situ Reaction between Two-Dimensional Sheets of Black Phosphorus and Graphene Oxide. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 10330-10338.	4.0	44
77	Photopolymerization of Pluronic F127 diacrylate: a colloid-templated polymerization. <i>Soft Matter</i> , 2011, 7, 4928.	1.2	40
78	Combining AFM and Acoustic Probes to Reveal Changes in the Elastic Stiffness Tensor of Living Cells. <i>Biophysical Journal</i> , 2014, 107, 1502-1512.	0.2	40
79	Diffusion bonds in copper. <i>Journal of Materials Science</i> , 1984, 19, 3140-3148.	1.7	38
80	The formation of TiC/Al <sub>2</sub> O <sub>3</sub> microstructures by a self-propagating high-temperature synthesis reaction. <i>Journal of Materials Science</i> , 1996, 31, 3791-3803.	1.7	37
81	Residual stress distributions around indentations and scratches in polycrystalline Al <sub>2</sub> O <sub>3</sub> and Al <sub>2</sub> O <sub>3</sub> /SiC nanocomposites measured using fluorescence probes. <i>Acta Materialia</i> , 2008, 56, 140-149.	3.8	37
82	Preparation of PZT suspensions for direct ink jet printing. <i>Journal of the European Ceramic Society</i> , 2004, 24, 1069-1072.	2.8	36
83	Non-destructive testing and acoustic microscopy of diffusion bonds. <i>Journal of Materials Science</i> , 1983, 18, 2345-2353.	1.7	35
84	Evaluation of the efficiency of TiB <sub>2</sub> and TiC as protective coatings for SiC monofilament in titanium-based composites. <i>Journal of Materials Science</i> , 1994, 29, 3774-3780.	1.7	35
85	Ceramic nanocomposites: mechanical properties. <i>Current Opinion in Solid State and Materials Science</i> , 1998, 3, 490-495.	5.6	35
86	High-strength nanoporous silver produced by inkjet printing. <i>Scripta Materialia</i> , 2010, 63, 308-311.	2.6	35
87	Wetting of silicon carbide by chromium containing alloys. <i>Acta Materialia</i> , 1998, 46, 3491-3499.	3.8	34
88	Numerical and experimental comparisons of mass transport rate in a piezoelectric drop-on-demand inkjet print head. <i>International Journal of Mechanical Sciences</i> , 2004, 46, 181-199.	3.6	33
89	Yttrium Silicate Powders Produced by the Sol-Gel Method, Structural and Thermal Characterization. <i>Journal of the American Ceramic Society</i> , 2003, 86, 1595-1597.	1.9	32
90	Influence of specimen thickness on the nanoindentation of hydrogels: Measuring the mechanical properties of soft contact lenses. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 35, 144-156.	1.5	32

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91	Probing Ink-Powder Interactions during 3D Binder Jet Printing Using Time-Resolved X-ray Imaging. ACS Applied Materials & Interfaces, 2020, 12, 34254-34264.	4.0	32
92	TEM study of silicon carbide whisker microstructures. Journal of Materials Science, 1991, 26, 6207-6217.	1.7	31
93	Nanoindentation of Molecular Crystals: Lessons Learned from Aspirin. Crystal Growth and Design, 2020, 20, 5956-5966.	1.4	31
94	X-ray microtomographic studies of metal matrix composites using laboratory X-ray sources. Journal of Microscopy, 1995, 177, 399-406.	0.8	29
95	Strain rate dependence of failure in 2124 Al/SiC whisker composite. Scripta Metallurgica, 1988, 22, 601-606.	1.2	28
96	Comparison of interfaces in Ti composites reinforced with uncoated and TiB <sub>2</sub> /Ca-coated SiC fibres. Journal of Microscopy, 1993, 169, 279-287.	0.8	28
97	Matrix flow and densification during the consolidation of matrix coated fibres. Acta Materialia, 2000, 48, 1247-1258.	3.8	28
98	Inkjet delivery of glucose oxidase. Chemical Communications, 2010, 46, 5452.	2.2	28
99	Black phosphorus with near-superhydrophobic properties and long-term stability in aqueous media. Chemical Communications, 2018, 54, 3831-3834.	2.2	28
100	Fabrication of microvascular constructs using high resolution electrohydrodynamic inkjet printing. Biofabrication, 2021, 13, 035006.	3.7	27
101	Diffusion bonding of nickel and zirconia: Mechanical properties and interfacial microstructures. Journal of Materials Research, 1992, 7, 1480-1488.	1.2	26
102	Damage assessment in particle-reinforced metal matrix composites using x-ray microtomography. Scripta Metallurgica Et Materialia, 1993, 29, 1457-1462.	1.0	26
103	Oscillatory limited compressible fluid flow induced by the radial motion of a thick-walled piezoelectric tube. Journal of the Acoustical Society of America, 2003, 114, 1314-1321.	0.5	26
104	The mechanical properties of float glass surfaces measured by nanoindentation and acoustic microscopy. Acta Materialia, 2011, 59, 1790-1799.	3.8	26
105	Scanning Acoustic Microscopy for Mapping the Microelastic Properties of Human Corneal Tissue. Current Eye Research, 2013, 38, 437-444.	0.7	26
106	Direct 3D printing of graphene using capillary suspensions. Nanoscale, 2020, 12, 11440-11447.	2.8	26
107	Alumina/Aluminum Composites Formed by the Directed Oxidation of Aluminum Using Magnesia as a Surface Dopant. Journal of the American Ceramic Society, 1994, 77, 1761-1770.	1.9	25
108	Correlations for single-crystal elastic constants of compound semiconductors and their representation in isomechanical groups. Physical Review B, 2007, 76, .	1.1	25

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109	Tetragonal to Cubic Transformation of SiO <sub>2</sub> -Stabilized ZrO <sub>2</sub> Polymorph through Dysprosium Substitutions. <i>Inorganic Chemistry</i> , 2017, 56, 1273-1281.	1.9	25
110	Effect of TiB <sub>2</sub> , TiC and TiN protective coatings on tensile strength and fracture behaviour of SiC monofilament fibres. <i>Composites</i> , 1995, 26, 531-539.	0.9	24
111	Power-laws, and the $A\dot{\epsilon}^{-n}$ correlation in creep. <i>Scripta Metallurgica</i> , 1984, 18, 1079-1084.	1.2	23
112	Diffusion bonding of a nickel (chromium) alloy to zirconia: Mechanical properties and interface microstructures. <i>Journal of Materials Science</i> , 1993, 28, 4366-4374.	1.7	23
113	Creep and Thermal Cycling. , 1993, , 191-214.		23
114	In situ scanning electron microscope studies of fracture in particulate-reinforced metal-matrix composites. <i>Journal of Materials Science</i> , 1994, 29, 5615-5624.	1.7	23
115	Creep behaviour of a SiC particulate reinforced Al-2618 metal matrix composite. <i>Acta Materialia</i> , 1997, 45, 41-49.	3.8	23
116	Oscillatory Incompressible Fluid Flow in a Tapered Tube With a Free Surface in an Inkjet Print Head. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2005, 127, 98-109.	0.8	23
117	Multi-layer phase analysis: quantifying the elastic properties of soft tissues and live cells with ultra-high-frequency scanning acoustic microscopy. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012, 59, 610-620.	1.7	23
118	Biomechanical Changes After Repeated Collagen Cross-Linking on Human Corneas Assessed In Vitro Using Scanning Acoustic Microscopy. , 2014, 55, 1549.		23
119	High throughput cryopreservation of cells by rapid freezing of sub- $\frac{1}{4}$ l drops using inkjet printing "cryoprinting. <i>Lab on A Chip</i> , 2015, 15, 3503-3513.	3.1	23
120	Stabilization of a t-ZrO <sub>2</sub> polymorph in a glassy SiO <sub>2</sub> matrix at elevated temperatures accomplished by ceria additions. <i>Dalton Transactions</i> , 2017, 46, 6884-6893.	1.6	23
121	Peptide hydrogel <i>in vitro</i> non-inflammatory potential. <i>Journal of Peptide Science</i> , 2017, 23, 148-154.	0.8	23
122	Adhesion testing of glass-ceramic thick films on metal substrates. <i>Journal of Materials Science</i> , 1993, 28, 2989-2998.	1.7	22
123	Finite-difference modelling of self-propagating high-temperature synthesis of materials. <i>Acta Metallurgica Et Materialia</i> , 1995, 43, 3903-3913.	1.9	22
124	Gel-cast glass-ceramic tissue scaffolds of controlled architecture produced via stereolithography of moulds. <i>Biofabrication</i> , 2012, 4, 045002.	3.7	22
125	Localized micro- and nano-scale remodelling in the diabetic aorta. <i>Acta Biomaterialia</i> , 2014, 10, 4843-4851.	4.1	22
126	Rising to the challenge: applying biofabrication approaches for better drug and chemical product development. <i>Biofabrication</i> , 2017, 9, 033001.	3.7	22



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127	Internal stress superplasticity in metal matrix composites. Scripta Metallurgica, 1985, 19, 703-707.	1.2	21
128	Multilayer nitride coatings by closed field unbalanced magnetron sputter ion plating. Surface and Coatings Technology, 2003, 162, 276-287.	2.2	21
129	Inkjet printed carbon nanotube networks: the influence of drop spacing and drying on electrical properties. Journal Physics D: Applied Physics, 2012, 45, 315304.	1.3	21
130	Dynamic recrystallization and grain size. , 1990, , 354-364.		20
131	Acoustic Emissions During Indentation Tests. Materials Research Society Symposia Proceedings, 1991, 239, 361.	0.1	20
132	Characterization of microstructural damage during plastic strain of a particulate-reinforced metal matrix composite at elevated temperature. Journal of Materials Science, 1996, 31, 297-303.	1.7	20
133	Water-based highly conductive graphene inks for fully printed humidity sensors. Journal Physics D: Applied Physics, 2020, 53, 455304.	1.3	20
134	Alumina/Aluminum Composites Formed by the Directed Oxidation of Aluminum Using Sodium Hydroxide as a Surface Dopant. Journal of the American Ceramic Society, 1994, 77, 1771-1776.	1.9	19
135	Microstructural characterization in diffusion-bonded SiC/Ti-6Al-4V composites. Journal of Microscopy, 1993, 169, 269-277.	0.8	18
136	Manufacture of 3-dimensional objects by reactive inkjet printing. Soft Matter, 2008, 4, 2513.	1.2	18
137	Tiled Monolayer Films of 2D Molybdenum Disulfide Nanoflakes Assembled at Liquid/Liquid Interfaces. ACS Applied Materials & Interfaces, 2020, 12, 25125-25134.	4.0	18
138	Theoretical model for solid-state consolidation of long-fibre reinforced metal-matrix composites. Acta Metallurgica Et Materialia, 1994, 42, 461-473.	1.9	17
139	Interface microstructures in Ti-based composites using TiB <sub>2</sub> /C-coated and uncoated SiCf after short-term thermal exposure. Composites, 1994, 25, 887-890.	0.9	17
140	The wetting of silicon nitride by chromium-containing alloys. Journal of Materials Science, 1995, 30, 5915-5922.	1.7	17
141	Diffusion bonds in iron and a low-alloy steel. Journal of Materials Science, 1984, 19, 3149-3158.	1.7	16
142	The compatibility of TiB <sub>2</sub> protective coatings with SiC fibre and Ti-6Al-4V. Journal of Microscopy, 1993, 169, 289-295.	0.8	16
143	Interfaces in Ti3Al composites reinforced with sigma SiC fibres. Scripta Metallurgica Et Materialia, 1994, 30, 89-94.	1.0	16
144	Direct Inkjet Deposition of Ceramic Green Bodies: II – Jet Behaviour and Deposit Formation. Materials Research Society Symposia Proceedings, 1998, 542, 147.	0.1	16

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145	Stiffness of particulate reinforced metal matrix composites with damaged reinforcements. <i>Materials Science and Technology</i> , 1999, 15, 827-832.	0.8	16
146	Intermediate Phases in Mullite Synthesis Via Aluminum and Alumina Filled Polymethylsiloxane. <i>Journal of the American Ceramic Society</i> , 2005, 88, 2085-2091.	1.9	16
147	A pilot study of scanning acoustic microscopy as a tool for measuring arterial stiffness in aortic biopsies. <i>Artery Research</i> , 2016, 13, 1.	0.3	16
148	Frequency-modulated atomic force microscopy localises viscoelastic remodelling in the ageing sheep aorta. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 64, 10-17.	1.5	16
149	Synthetic 2-D lead tin sulfide nanosheets with tuneable optoelectronic properties from a potentially scalable reaction pathway. <i>Chemical Science</i> , 2019, 10, 1035-1045.	3.7	16
150	The deformation characteristics of SiC particulate-reinforced aluminium alloy 6061. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1995, 197, 11-18.	2.6	15
151	The effect of focused ion beam machining on residual stress and crack morphologies in alumina. <i>Journal of Physics: Conference Series</i> , 2006, 26, 219-222.	0.3	15
152	Strain gradients and the strength of nanoporous gold. <i>Journal of Materials Research</i> , 2010, 25, 746-753.	1.2	15
153	Angiogenesis and tissue formation driven by an arteriovenous loop in the mouse. <i>Scientific Reports</i> , 2019, 9, 10478.	1.6	15
154	Stability of Lines with Zero Receding Contact Angle Produced by Inkjet Printing at Small Drop Volume. <i>Langmuir</i> , 2021, 37, 26-34.	1.6	15
155	The size dependent strength of Fe, Nb and V micropillars at room and low temperature. <i>Materialia</i> , 2019, 7, 100424.	1.3	14
156	The influence of microstructure on internal stress superplasticity in polycrystalline zinc. <i>Scripta Metallurgica Et Materialia</i> , 1991, 25, 467-472.	1.0	13
157	Palladium-zirconia diffusion bonds: Mechanical properties and interface reactions. <i>Acta Metallurgica Et Materialia</i> , 1992, 40, 925-938.	1.9	13
158	Freeform Fabrication of Ceramics by Hot-Melt Ink-Jet Printing. <i>Materials Research Society Symposia Proceedings</i> , 2000, 625, 195.	0.1	13
159	Duplication and plagiarism increasing among students. <i>Nature</i> , 2008, 452, 29-29.	13.7	13
160	Fabrication of a Glucose Biosensor by Piezoelectric Inkjet Printing. , 2009, , .		13
161	Microstructure Evolution and Hardness of an Ultra-High Strength Cu-Ni-Si Alloy During Thermo-mechanical Processing. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 2615-2625.	1.2	13
162	The formation mechanism of hexagonal Mo <sub>2</sub> C defects in CVD graphene grown on liquid copper. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2176-2180.	1.3	13

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163	The systemic influence of chronic smoking on skin structure and mechanical function. <i>Journal of Pathology</i> , 2020, 251, 420-428.	2.1	13
164	Chemical vapour deposition of graphene on copper-nickel alloys: the simulation of a thermodynamic and kinetic approach. <i>Nanoscale</i> , 2020, 12, 15283-15294.	2.8	13
165	Monotectic microstructure at high growth rates. <i>Scripta Metallurgica</i> , 1984, 18, 169-172.	1.2	12
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