

Brian Derby

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56
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304
ext. papers

14,632
ext. citations

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L-index

#	Paper	IF	Citations
293	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	12.8	1119
292	Printing and prototyping of tissues and scaffolds. <i>Science</i> , 2012 , 338, 921-6	33.3	816
291	Biofabrication: reappraising the definition of an evolving field. <i>Biofabrication</i> , 2016 , 8, 013001	10.5	387
290	Delivery of human fibroblast cells by piezoelectric drop-on-demand inkjet printing. <i>Biomaterials</i> , 2008 , 29, 193-203	15.6	374
289	Biofabrication: A Guide to Technology and Terminology. <i>Trends in Biotechnology</i> , 2018 , 36, 384-402	15.1	309
288	The dependence of grain size on stress during dynamic recrystallisation. <i>Acta Metallurgica Et Materialia</i> , 1991 , 39, 955-962		307
287	Novel collagen scaffolds with predefined internal morphology made by solid freeform fabrication. <i>Biomaterials</i> , 2003 , 24, 1487-97	15.6	292
286	A definition of bioinks and their distinction from biomaterial inks. <i>Biofabrication</i> , 2018 , 11, 013001	10.5	273
285	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	4.8	260
284	Vinculin regulates the recruitment and release of core focal adhesion proteins in a force-dependent manner. <i>Current Biology</i> , 2013 , 23, 271-81	6.3	258
283	Bioprinting: inkjet printing proteins and hybrid cell-containing materials and structures. <i>Journal of Materials Chemistry</i> , 2008 , 18, 5717		242
282	Review: bioprinting: a beginning. <i>Tissue Engineering</i> , 2006 , 12, 631-4		239
281	Inkjet printing ceramics: From drops to solid. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 2543-2550		226
280	Ink-jet delivery of particle suspensions by piezoelectric droplet ejectors. <i>Journal of Applied Physics</i> , 2005 , 97, 094903	2.5	225
279	On dynamic recrystallisation. <i>Scripta Metallurgica</i> , 1987 , 21, 879-884		221
278	Direct ink-jet printing and low temperature conversion of conductive silver patterns. <i>Journal of Materials Science</i> , 2006 , 41, 4153-4158	4.3	218
277	Inkjet Printing of Highly Loaded Particulate Suspensions. <i>MRS Bulletin</i> , 2003 , 28, 815-818	3.2	209

276	Inkjet printing biomaterials for tissue engineering: bioprinting. <i>International Materials Reviews</i> , 2014 , 59, 430-448	16.1	193
275	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, 12689-96	16.4	187
274	Characterizing the elastic properties of tissues. <i>Materials Today</i> , 2011 , 14, 96-105	21.8	184
273	Formation and stability of lines produced by inkjet printing. <i>Langmuir</i> , 2010 , 26, 10365-72	4	181
272	Ink-Jet Printing of Wax-Based Alumina Suspensions. <i>Journal of the American Ceramic Society</i> , 2001 , 84, 2514-2520	3.8	179
271	Theoretical model for diffusion bonding. <i>Metal Science</i> , 1982 , 16, 49-56		164
270	Mechanical properties of porous ceramic scaffolds: Influence of internal dimensions. <i>Ceramics International</i> , 2015 , 41, 8425-8432	5.1	140
269	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	16.4	135
268	Limits to feature size and resolution in ink jet printing. <i>Journal of the European Ceramic Society</i> , 2009 , 29, 913-918	6	134
267	Ink Jet Deposition of Ceramic Suspensions: Modeling and Experiments of Droplet Formation. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 625, 117		132
266	Additive Manufacture of Ceramics Components by Inkjet Printing. <i>Engineering</i> , 2015 , 1, 113-123	9.7	123
265	A universal scaling law for the strength of metal micropillars and nanowires. <i>Scripta Materialia</i> , 2009 , 61, 524-527	5.6	112
264	Wetting behaviour in the Al-Si/SiC system: interface reactions and solubility effects. <i>Acta Metallurgica Et Materialia</i> , 1995 , 43, 3061-3073		112
263	Wetting of titanium nitride and titanium carbide by liquid metals. <i>Acta Materialia</i> , 1996 , 44, 307-314	8.4	109
262	Silicon carbide particle size effects in alumina-based nanocomposites. <i>Acta Materialia</i> , 1996 , 44, 4543-4552		104
261	Acoustic emission from particulate-reinforced metal matrix composites. <i>Acta Metallurgica Et Materialia</i> , 1993 , 41, 1431-1445		103
260	Wide-Area Strain Sensors based upon Graphene-Polymer Composite Coatings Probed by Raman Spectroscopy. <i>Advanced Functional Materials</i> , 2014 , 24, 2865-2874	15.6	102
259	Fully printed high performance humidity sensors based on two-dimensional materials. <i>Nanoscale</i> , 2018 , 10, 5599-5606	7.7	101

258	Pristine Graphene Aerogels by Room-Temperature Freeze Gelation. <i>Advanced Materials</i> , 2016 , 28, 7993-8000	100	
257	A criterion for the determination of monotectic structure. <i>Acta Metallurgica</i> , 1983 , 31, 1123-1130	97	
256	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	5.7	92
255	Screen-Printing of a Highly Conductive Graphene Ink for Flexible Printed Electronics. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 32225-32234	9.5	86
254	The influence of microstructure on the fracture behaviour of particulate metal matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1991 , 135, 221-224	5.3	85
253	Diffusion bonding: development of theoretical model. <i>Metal Science</i> , 1984 , 18, 427-431		85
252	Ink-Jet Printing and Sintering of PZT. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 2053-2058	3.8	82
251	The strength of Al ₂ O ₃ /SiC nanocomposites after grinding and annealing. <i>Acta Materialia</i> , 1998 , 46, 3839-3848	79	
250	Oil-in-water separation with graphene-based nanocomposite membranes for produced water treatment. <i>Journal of Membrane Science</i> , 2020 , 603, 118007	9.6	76
249	Solid-state fabrication and interfaces of fibre reinforced metal matrix composites. <i>Progress in Materials Science</i> , 1995 , 39, 411-495	42.2	71
248	The deformation of particle reinforced metal matrix composites during temperature cycling. <i>Acta Metallurgica Et Materialia</i> , 1990 , 38, 2537-2552		69
247	Nanoindentation of histological specimens: Mapping the elastic properties of soft tissues. <i>Journal of Materials Research</i> , 2009 , 24, 638-646	2.5	67
246	Dynamic recrystallisation: The steady state grain size. <i>Scripta Metallurgica Et Materialia</i> , 1992 , 27, 1581-1585		67
245	Experimental study of the parameters for stable drop-on-demand inkjet performance. <i>Physics of Fluids</i> , 2019 , 31, 032004	4.4	65
244	Alumina/Silicon Carbide Nanocomposites by Hybrid Polymer/Powder Processing: Microstructures and Mechanical Properties. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 41-48	3.8	65
243	Freeform fabrication by controlled droplet deposition of powder filled melts. <i>Journal of Materials Science</i> , 2002 , 37, 3155-3161	4.3	60
242	Fracture of metal/ceramic laminates. Transition from single to multiple cracking. <i>Acta Materialia</i> , 1999 , 47, 529-543	8.4	60
241	Fracture of metal/ceramic laminates. Crack growth resistance and toughness. <i>Acta Materialia</i> , 1999 , 47, 545-563	8.4	60

240	Inkjet printing and cell seeding thermoreversible photocurable gel structures. <i>Soft Matter</i> , 2011 , 7, 2639-2646	3.6	58
239	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	2.2	58
238	Residual stress and subsurface damage in machined alumina and alumina/silicon carbide nanocomposite ceramics. <i>Acta Materialia</i> , 2001 , 49, 507-517	8.4	56
237	Solution processing of two-dimensional black phosphorus. <i>Chemical Communications</i> , 2017 , 53, 1445-1458	3.8	55
236	Surface mechanical properties of alumina matrix nanocomposites. <i>Acta Materialia</i> , 1997 , 45, 3963-3973	8.4	54
235	Ink Jet Deposition of Ceramic Suspensions: Modeling and Experiments of Droplet Formation. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 624, 65		54
234	Ink Jet Printing of PZT Aqueous Ceramic Suspensions. <i>Journal of Materials Science Letters</i> , 1999 , 18, 87-90		54
233	Formation of coffee stains on porous surfaces. <i>Langmuir</i> , 2012 , 28, 5331-8	4	53
232	Ink-Jet Printing of Zirconia: Coffee Staining and Line Stability. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 3787-3792	3.8	53
231	The strength of gold nanowire forests. <i>Scripta Materialia</i> , 2008 , 59, 151-154	5.6	53
230	Manufacture of biomaterials by a novel printing process. <i>Journal of Materials Science: Materials in Medicine</i> , 2002 , 13, 1163-6	4.5	50
229	Controlling Coffee Ring Formation during Drying of Inkjet Printed 2D Inks. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700944	4.6	49
228	Influence of gas phase equilibria on the chemical vapor deposition of graphene. <i>ACS Nano</i> , 2013 , 7, 3104-3117	4.7	49
227	Biomechanical properties of human corneas following low- and high-intensity collagen cross-linking determined with scanning acoustic microscopy 2013 , 54, 5273-80		46
226	Deformation mechanisms in gold nanowires and nanoporous gold. <i>Philosophical Magazine</i> , 2011 , 91, 1070-1083	1.6	46
225	A Microstructural model for primary creep. <i>Acta Metallurgica</i> , 1987 , 35, 1349-1353		46
224	An analysis of thermal residual stresses in Ti-6-4 alloy reinforced with SiC and Al ₂ O ₃ fibres. <i>Acta Metallurgica Et Materialia</i> , 1994 , 42, 1525-1534		45
223	Inkjet printing ultra-large graphene oxide flakes. <i>2D Materials</i> , 2017 , 4, 021021	5.9	42

222	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	3.8	40
221	The role of enhanced matrix dislocation density in strengthening metal matrix composites. <i>Scripta Metallurgica</i> , 1988 , 22, 529-532		40
220	Localised micro-mechanical stiffening in the ageing aorta. <i>Mechanisms of Ageing and Development</i> , 2011 , 132, 459-67	5.6	39
219	Supercapacitor Electrodes from the in Situ Reaction between Two-Dimensional Sheets of Black Phosphorus and Graphene Oxide. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 10330-10338	9.5	38
218	Thermal stress induced microcracking in alumina/20% SiCp composites. <i>Acta Materialia</i> , 2004 , 52, 1621-1629	6.2	38
217	Residual stress distributions around indentations and scratches in polycrystalline Al ₂ O ₃ and Al ₂ O ₃ /SiC nanocomposites measured using fluorescence probes. <i>Acta Materialia</i> , 2008 , 56, 140-149	8.4	35
216	Combining AFM and acoustic probes to reveal changes in the elastic stiffness tensor of living cells. <i>Biophysical Journal</i> , 2014 , 107, 1502-12	2.9	33
215	High-strength nanoporous silver produced by inkjet printing. <i>Scripta Materialia</i> , 2010 , 63, 308-311	5.6	33
214	The formation of TiC/Al ₂ O ₃ microstructures by a self-propagating high-temperature synthesis reaction. <i>Journal of Materials Science</i> , 1996 , 31, 3791-3803	4.3	33
213	Non-destructive testing and acoustic microscopy of diffusion bonds. <i>Journal of Materials Science</i> , 1983 , 18, 2345-2353	4.3	32
212	Preparation of PZT suspensions for direct ink jet printing. <i>Journal of the European Ceramic Society</i> , 2004 , 24, 1069-1072	6	31
211	Evaluation of the efficiency of TiB ₂ and TiC as protective coatings for SiC monofilament in titanium-based composites. <i>Journal of Materials Science</i> , 1994 , 29, 3774-3780	4.3	31
210	Diffusion bonds in copper. <i>Journal of Materials Science</i> , 1984 , 19, 3140-3148	4.3	31
209	Wetting of silicon carbide by chromium containing alloys. <i>Acta Materialia</i> , 1998 , 46, 3491-3499	8.4	30
208	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	5.5	30
207	Photopolymerization of Pluronic F127 diacrylate: a colloid-templated polymerization. <i>Soft Matter</i> , 2011 , 7, 4928	3.6	29
206	Ceramic nanocomposites: mechanical properties. <i>Current Opinion in Solid State and Materials Science</i> , 1998 , 3, 490-495	12	29
205	Comparison of interfaces in Ti composites reinforced with uncoated and TiB ₂ /C-coated SiC fibres. <i>Journal of Microscopy</i> , 1993 , 169, 279-287	1.9	28

204	TEM study of silicon carbide whisker microstructures. <i>Journal of Materials Science</i> , 1991 , 26, 6207-6217	4.3	28
203	Strain rate dependence of failure in 2124 Al/SiC whisker composite. <i>Scripta Metallurgica</i> , 1988 , 22, 601-606		28
202	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	3.8	27
201	Matrix flow and densification during the consolidation of matrix coated fibres. <i>Acta Materialia</i> , 2000 , 48, 1247-1258	8.4	27
200	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, 144-56	4.1	25
199	Inkjet delivery of glucose oxidase. <i>Chemical Communications</i> , 2010 , 46, 5452-4	5.8	25
198	Effect of TiB ₂ , TiC and TiN protective coatings on tensile strength and fracture behaviour of SiC monofilament fibres. <i>Composites</i> , 1995 , 26, 531-539		24
197	Oscillatory limited compressible fluid flow induced by the radial motion of a thick-walled piezoelectric tube. <i>Journal of the Acoustical Society of America</i> , 2003 , 114, 1314-21	2.2	23
196	Damage assessment in particle-reinforced metal matrix composites using x-ray microtomography. <i>Scripta Metallurgica Et Materialia</i> , 1993 , 29, 1457-1462		23
195	Diffusion bonding of nickel and zirconia: Mechanical properties and interfacial microstructures. <i>Journal of Materials Research</i> , 1992 , 7, 1480-1488	2.5	23
194	Black phosphorus with near-superhydrophobic properties and long-term stability in aqueous media. <i>Chemical Communications</i> , 2018 , 54, 3831-3834	5.8	22
193	The mechanical properties of float glass surfaces measured by nanoindentation and acoustic microscopy. <i>Acta Materialia</i> , 2011 , 59, 1790-1799	8.4	22
192	X-ray microtomographic studies of metal matrix composites using laboratory X-ray sources. <i>Journal of Microscopy</i> , 1995 , 177, 399-406	1.9	22
191	Scanning acoustic microscopy for mapping the microelastic properties of human corneal tissue. <i>Current Eye Research</i> , 2013 , 38, 437-44	2.9	21
190	Gel-cast glass-ceramic tissue scaffolds of controlled architecture produced via stereolithography of moulds. <i>Biofabrication</i> , 2012 , 4, 045002	10.5	21
189	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, 610-20	3.2	21
188	Alumina/Aluminum Composites Formed by the Directed Oxidation of Aluminum Using Magnesia as a Surface Dopant. <i>Journal of the American Ceramic Society</i> , 1994 , 77, 1761-1770	3.8	21
187	Power-laws, and the A ⁿ correlation in creep. <i>Scripta Metallurgica</i> , 1984 , 18, 1079-1084		21

186	Localized micro- and nano-scale remodelling in the diabetic aorta. <i>Acta Biomaterialia</i> , 2014 , 10, 4843-4851	10.8	20
185	Rising to the challenge: applying biofabrication approaches for better drug and chemical product development. <i>Biofabrication</i> , 2017 , 9, 033001	10.5	20
184	Creep and Thermal Cycling 1993 , 191-214		20
183	Diffusion bonding of a nickel (chromium) alloy to zirconia: Mechanical properties and interface microstructures. <i>Journal of Materials Science</i> , 1993 , 28, 4366-4374	4.3	20
182	Internal stress superplasticity in metal matrix composites. <i>Scripta Metallurgica</i> , 1985 , 19, 703-707		20
181	Tetragonal to Cubic Transformation of SiO-Stabilized ZrO Polymorph through Dysprosium Substitutions. <i>Inorganic Chemistry</i> , 2017 , 56, 1273-1281	5.1	19
180	Inkjet printed carbon nanotube networks: the influence of drop spacing and drying on electrical properties. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 315304	3	19
179	In situ scanning electron microscope studies of fracture in particulate-reinforced metal-matrix composites. <i>Journal of Materials Science</i> , 1994 , 29, 5615-5624	4.3	19
178	Adhesion testing of glass-ceramic thick films on metal substrates. <i>Journal of Materials Science</i> , 1993 , 28, 2989-2998	4.3	19
177	Correlations for single-crystal elastic constants of compound semiconductors and their representation in isomechanical groups. <i>Physical Review B</i> , 2007 , 76,	3.3	18
176	Multilayer nitride coatings by closed field unbalanced magnetron sputter ion plating. <i>Surface and Coatings Technology</i> , 2003 , 162, 276-287	4.4	18
175	Finite-difference modelling of self-propagating high-temperature synthesis of materials. <i>Acta Metallurgica Et Materialia</i> , 1995 , 43, 3903-3913		18
174	Microstructural characterization in diffusion-bonded SiC/TiBAl/V composites. <i>Journal of Microscopy</i> , 1993 , 169, 269-277	1.9	18
173	Acoustic Emissions During Indentation Tests. <i>Materials Research Society Symposia Proceedings</i> , 1991 , 239, 361		18
172	High throughput cryopreservation of cells by rapid freezing of sub- μ drops using inkjet printing-cryoprinting. <i>Lab on A Chip</i> , 2015 , 15, 3503-13	7.2	17
171	Biomechanical changes after repeated collagen cross-linking on human corneas assessed in vitro using scanning acoustic microscopy 2014 , 55, 1549-54		17
170	Creep behaviour of a SiC particulate reinforced Al-2618 metal matrix composite. <i>Acta Materialia</i> , 1997 , 45, 41-49	8.4	17
169	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	2.1	17

168	Characterization of microstructural damage during plastic strain of a particulate-reinforced metal matrix composite at elevated temperature. <i>Journal of Materials Science</i> , 1996 , 31, 297-303	4.3	17
167	Theoretical model for solid-state consolidation of long-fibre reinforced metal-matrix composites. <i>Acta Metallurgica Et Materialia</i> , 1994 , 42, 461-473		17
166	Dynamic recrystallization and grain size 1990 , 354-364		17
165	Manufacture of 3-dimensional objects by reactive inkjet printing. <i>Soft Matter</i> , 2008 , 4, 2513	3.6	16
164	Alumina/Aluminum Composites Formed by the Directed Oxidation of Aluminum Using Sodium Hydroxide as a Surface Dopant. <i>Journal of the American Ceramic Society</i> , 1994 , 77, 1771-1776	3.8	16
163	Interface microstructures in Ti-based composites using TiB ₂ /C-coated and uncoated SiCf after short-term thermal exposure. <i>Composites</i> , 1994 , 25, 887-890		16
162	Interfaces in Ti ₃ Al composites reinforced with sigma SiC fibres. <i>Scripta Metallurgica Et Materialia</i> , 1994 , 30, 89-94		16
161	Nanoindentation of Molecular Crystals: Lessons Learned from Aspirin. <i>Crystal Growth and Design</i> , 2020 , 20, 5956-5966	3.5	16
160	Stabilization of a t-ZrO polymorph in a glassy SiO matrix at elevated temperatures accomplished by ceria additions. <i>Dalton Transactions</i> , 2017 , 46, 6884-6893	4.3	15
159	Peptide hydrogel in vitro non-inflammatory potential. <i>Journal of Peptide Science</i> , 2017 , 23, 148-154	2.1	15
158	Intermediate Phases in Mullite Synthesis Via Aluminum- and Alumina-Filled Polymethylsiloxane. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 2085-2091	3.8	15
157	Stiffness of particulate reinforced metal matrix composites with damaged reinforcements. <i>Materials Science and Technology</i> , 1999 , 15, 827-832	1.5	15
156	The compatibility of TiB ₂ protective coatings with SiC fibre and Ti-6Al-4V. <i>Journal of Microscopy</i> , 1993 , 169, 289-295	1.9	15
155	Strain gradients and the strength of nanoporous gold. <i>Journal of Materials Research</i> , 2010 , 25, 746-753	2.5	14
154	The deformation characteristics of SiC particulate-reinforced aluminium alloy 6061. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1995 , 197, 11-18	5.3	14
153	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, 10-7	4.1	14
152	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	13
151	Direct Inkjet Deposition of Ceramic Green Bodies: II - Jet Behaviour and Deposit Formation. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 542, 147		13

150	Palladium-zirconia diffusion bonds: Mechanical properties and interface reactions. <i>Acta Metallurgica Et Materialia</i> , 1992 , 40, 925-938		13
149	The influence of microstructure on internal stress superplasticity in polycrystalline zinc. <i>Scripta Metallurgica Et Materialia</i> , 1991 , 25, 467-472		13
148	Direct 3D printing of graphene using capillary suspensions. <i>Nanoscale</i> , 2020 , 12, 11440-11447	7.7	13
147	Probing Ink-Powder Interactions during 3D Binder Jet Printing Using Time-Resolved X-ray Imaging. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 34254-34264	9.5	12
146	Freeform Fabrication of Ceramics by Hot-Melt Ink-Jet Printing. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 625, 195		12
145	Fibre uniformity and cavitation during the consolidation of metal-matrix composite via fibre-mat and matrix-foil diffusion bonding. <i>Acta Metallurgica Et Materialia</i> , 1993 , 41, 3257-3266		12
144	Diffusion bonds in iron and a low-alloy steel. <i>Journal of Materials Science</i> , 1984 , 19, 3149-3158	4.3	12
143	Water-based highly conductive graphene inks for fully printed humidity sensors. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 455304	3	12
142	Measured Anisotropy of Alumina Components Produced by Direct Ink-Jet Printing. <i>Key Engineering Materials</i> , 2004 , 264-268, 693-696	0.4	11
141	The wetting of silicon nitride by chromium-containing alloys. <i>Journal of Materials Science</i> , 1995 , 30, 5915-5922	4.9	11
140	The behaviour of metal matrix composites during temperature cycling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1991 , 135, 213-216	5.3	11
139	Monotectic microstructure at high growth rates. <i>Scripta Metallurgica</i> , 1984 , 18, 169-172		11
138	Joining methods in space: A theoretical model for diffusion bonding. <i>Acta Astronautica</i> , 1980 , 7, 685-698	2.9	11
137	Fabrication of microvascular constructs using high resolution electrohydrodynamic inkjet printing. <i>Biofabrication</i> , 2020 ,	10.5	11
136	A pilot study of scanning acoustic microscopy as a tool for measuring arterial stiffness in aortic biopsies. <i>Artery Research</i> , 2016 , 13, 1-5	2.2	11
135	Continuous Deposition of a Liquid Thread onto a Moving Substrate. Numerical Analysis and Comparison With Experiments. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2012 , 134,	2.1	10
134	Fabrication of a Glucose Biosensor by Piezoelectric Inkjet Printing 2009 ,		10
133	Mullite formation from the pyrolysis of aluminium-loaded polymethylsiloxanes: The influence of aluminium powder characteristics. <i>Journal of the European Ceramic Society</i> , 2006 , 26, 1107-1119	6	10

132	The effect of temporary hydrogenation on the processing and interface of titanium composites. <i>Composites</i> , 1994 , 25, 881-886		10
131	Chemistry effects on interface microstructure and reaction in titanium-based composites. <i>Composites</i> , 1994 , 25, 630-636		10
130	The size dependent strength of Fe, Nb and V micropillars at room and low temperature. <i>Materialia</i> , 2019 , 7, 100424	3.2	9
129	Interdependence of Resistance and Optical Transmission in Conductive Nanowire Networks. <i>Advanced Theory and Simulations</i> , 2018 , 1, 1700011	3.5	9
128	Processing and microstructural characterisation of RBSiC-TaSi ₂ composites. <i>Journal of Materials Science</i> , 1998 , 33, 5557-5568	4.3	9
127	A finite element model for consolidation of vacuum plasma spray-formed metal matrix composites. <i>Acta Materialia</i> , 1998 , 46, 4339-4350	8.4	9
126	Mapping the Micromechanical Properties of Cryo-sectioned Aortic Tissue with Scanning Acoustic Microscopy. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1132E, ukpmcpa27262		9
125	Characterisation of void and reinforcement distributions in a metal matrix composite by X-ray edge-contrast microtomography. <i>Scripta Materialia</i> , 2003 , 48, 1259-1264	5.6	9
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