David Graham McCartney

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

 168
 6,645
 45
 76

 papers
 citations
 h-index
 g-index

 169
 7,324
 3.8
 5.99

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
168	On the Influence of Alloy Composition on the Additive Manufacturability of Ni-Based Superalloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2022 , 53, 962-983	2.3	2
167	A new class of alumina-forming superalloy for 3D printing. Additive Manufacturing, 2022, 52, 102608	6.1	0
166	On the solid-state dendritic growth of M7C3 carbide at interfaces in an austenitic system. <i>Scripta Materialia</i> , 2022 , 213, 114585	5.6	O
165	Alloys-by-design: Application to new superalloys for additive manufacturing. <i>Acta Materialia</i> , 2021 , 202, 417-436	8.4	72
164	Small-angle neutron scattering reveals the effect of Mo on interphase nano-precipitation in Ti-Mo micro-alloyed steels. <i>Scripta Materialia</i> , 2020 , 174, 24-28	5.6	10
163	The influence of microstructure on the ductile to brittle transition and fracture behaviour of HVOF NiCoCrAlY coatings determined via small punch tensile testing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 754, 479-490	5.3	15
162	Correlation and capability of using site inspection data and small specimen creep testing for a service-exposed CrMoV pipe section. <i>Materials at High Temperatures</i> , 2019 , 36, 173-186	1.1	2
161	Investigation of the effect of forming parameters in incremental sheet forming using a micromechanics based damage model. <i>International Journal of Material Forming</i> , 2019 , 12, 553-574	2	14
160	Ice Crystal Coarsening in Ice Cream during Cooling: A Comparison of Theory and Experiment. <i>Crystals</i> , 2019 , 9, 321	2.3	6
159	Processability of Atypical WC-Co Composite Feedstock by Laser Powder-Bed Fusion. <i>Materials</i> , 2019 , 13,	3.5	2
158	Fabrication and microstrain evolution of Al-TiB2 composite coating by cold spray deposition. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2019, 233, 1044-1052	1.3	2
157	Effects of pre-cracking on small punch creep testing of a vacuum plasma-sprayed CoNiCrAlY coating. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2018 , 232, 242-249	1.3	1
156	Evaluation of formability and fracture of pure titanium in incremental sheet forming. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 95, 625-641	3.2	16
155	Investigating nano-precipitation in a V-containing HSLA steel using small angle neutron scattering. <i>Acta Materialia</i> , 2018 , 145, 84-96	8.4	32
154	Time-Resolved Tomographic Quantification of the Microstructural Evolution of Ice Cream. <i>Materials</i> , 2018 , 11,	3.5	10
153	Deformation and fracture characteristics of Al6092/SiC/17.5p metal matrix composite sheets due to heat treatments. <i>Materials Characterization</i> , 2018 , 142, 365-376	3.9	27
152	Some aspects on modelling of the Ephase depletion behaviour under different oxide growth kinetics in HVOF CoNiCrAlY coatings. <i>Surface and Coatings Technology</i> , 2017 , 313, 107-114	4.4	23

(2015-2017)

151	Characterising precipitate evolution in multi-component cast aluminium alloys using small-angle X-ray scattering. <i>Journal of Alloys and Compounds</i> , 2017 , 703, 344-353	5.7	11
150	An analytical approach to the Ephase coarsening behaviour in a thermally sprayed CoNiCrAlY bond coat alloy. <i>Journal of Alloys and Compounds</i> , 2017 , 704, 359-365	5.7	25
149	The Application of the Small Punch Tensile Test to Evaluate the Ductile to Brittle Transition of a Thermally Sprayed CoNiCrAlY Coating. <i>Key Engineering Materials</i> , 2017 , 734, 144-155	0.4	6
148	The High Temperature Creep Properties of a Thermally Sprayed CoNiCrAlY Coating via Small Punch Creep Testing. <i>Key Engineering Materials</i> , 2017 , 734, 37-48	0.4	4
147	Modelling of ductile fracture in single point incremental forming using a modified GTN model. Engineering Fracture Mechanics, 2017 , 186, 59-79	4.2	40
146	An evaluation of the capability of data conversion of impression creep test. <i>Materials at High Temperatures</i> , 2017 , 34, 415-424	1.1	4
145	A study on the evolution of the contact angle of small punch creep test of ductile materials. <i>International Journal of Pressure Vessels and Piping</i> , 2016 , 145, 60-74	2.4	10
144	Corrosion behaviour of Al86.0Co7.6Ce6.4 glass forming alloy with different microstructures. <i>Applied Surface Science</i> , 2016 , 384, 116-124	6.7	4
143	Effect of carbide dissolution on the corrosion performance of tungsten carbide reinforced Inconel 625 wire laser coating. <i>Journal of Materials Processing Technology</i> , 2016 , 231, 89-99	5.3	51
142	Modelling and experimental study on Ephase depletion behaviour of HVOF sprayed free-standing CoNiCrAlY coatings during oxidation. <i>Surface and Coatings Technology</i> , 2016 , 291, 34-42	4.4	23
141	Review on the influence of process parameters in incremental sheet forming. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 87, 479-499	3.2	110
140	A review of friction stir welding of aluminium matrix composites. <i>Materials and Design</i> , 2015 , 86, 61-71	8.1	193
139	High-temperature oxidation of HVOF thermally sprayed NiCr©r3C2 coatings: microstructure and kinetics. <i>Journal of Materials Science</i> , 2015 , 50, 6808-6821	4.3	38
138	Residual stress distribution in a TiBAlBV T-joint weld measured using synchrotron X-ray diffraction. <i>Journal of Strain Analysis for Engineering Design</i> , 2015 , 50, 445-454	1.3	4
137	Laser cladding of Inconel 625 wire for corrosion protection. <i>Journal of Materials Processing Technology</i> , 2015 , 217, 232-240	5.3	170
136	Numerical simulation and experimental investigation of ductile fracture in SPIF using modified GTN model. <i>MATEC Web of Conferences</i> , 2015 , 21, 04013	0.3	6
135	Effect of surface conditions on internal oxidation and nitridation of HVOF MCrAlY coatings. <i>Materials at High Temperatures</i> , 2015 , 32, 215-220	1.1	12
134	Requirement for and Use of Coated P92 Steel for Enhanced Structural Integrity at High Temperature. <i>Acta Physica Polonica A</i> , 2015 , 128, 514-520	0.6	2

133	Supplementary Microstructural Features Induced During Laser Surface Melting of Thermally Sprayed Inconel 625 Coatings. <i>Journal of Thermal Spray Technology</i> , 2014 , 23, 402-409	2.5	2
132	Corrosion behaviour of a rapidly solidified Al 87.4 Co 7.9 Ce 4.7 [layer prepared by large area electron beam irradiation. <i>Applied Surface Science</i> , 2014 , 320, 581-590	6.7	6
131	Modelling Chemical and Microstructural Evolution Across Dissimilar Interfaces in Power Plants 2014 ,		2
130	Process modelling and optimization of keyhole plasma arc welding of thin Ti-6Al-4V. <i>Journal of Strain Analysis for Engineering Design</i> , 2014 , 49, 410-420	1.3	3
129	Effect of prior laser microstructural refinement on the formation of amorphous layer in an Al86Co7.6Ce6.4 alloy. <i>Applied Surface Science</i> , 2014 , 289, 230-236	6.7	5
128	Application of small punch creep testing to a thermally sprayed CoNiCrAlY bond coat. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 585, 205-213	5.3	48
127	Amorphous layer formation in Al86.0Co7.6Ce6.4 glass-forming alloy by large-area electron beam irradiation. <i>Applied Surface Science</i> , 2013 , 280, 431-438	6.7	20
126	Developing higher strength microalloyed medium carbon steel capable of being fracture split after laser transformation notching. <i>Materials Science and Technology</i> , 2013 , 29, 616-625	1.5	
125	Concurrent Inconel 625 wire and WC powder laser cladding: process stability and microstructural characterisation. <i>Surface Engineering</i> , 2013 , 29, 647-653	2.6	22
124	Bonding between aluminium and copper in cold spraying: story of asymmetry. <i>Materials Science and Technology</i> , 2012 , 28, 1371-1378	1.5	31
123	Corrosion behaviour of crystalline and amorphous forms of the glass forming alloy Fe43Cr16Mo16C15B10. <i>Journal of Alloys and Compounds</i> , 2012 , 527, 210-218	5.7	46
122	Finite element-based analysis of experimentally identified parametric envelopes for stable keyhole plasma arc welding of a titanium alloy. <i>Journal of Strain Analysis for Engineering Design</i> , 2012 , 47, 266-2	7 5 .3	18
121	Corrosion Behavior of Cold Sprayed Titanium Coatings and Free Standing Deposits. <i>Journal of Thermal Spray Technology</i> , 2011 , 20, 260-274	2.5	62
120	Study on Process Optimization of Cold Gas Spraying. <i>Journal of Thermal Spray Technology</i> , 2011 , 20, 608	8- <u>6</u> .30	51
119	Corrosion Performance of Laser Posttreated Cold Sprayed Titanium Coatings. <i>Journal of Thermal Spray Technology</i> , 2011 , 20, 909-917	2.5	54
118	Mechanical Properties and Microstructure of VPS and HVOF CoNiCrAlY Coatings. <i>Journal of Thermal Spray Technology</i> , 2011 , 20, 1231-1243	2.5	52
117	Computational modelling of titanium particles in warm spray. <i>Computers and Fluids</i> , 2011 , 44, 358-368	2.8	25
116	Impact phenomena in cold-spraying of titanium onto various ferrous alloys. <i>Surface and Coatings Technology</i> , 2011 , 205, 5021-5027	4.4	26

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115	Influence of nozzle orifice diameter in keyhole plasma arc welding. <i>Science and Technology of Welding and Joining</i> , 2011 , 16, 446-452	3.7	7
114	Finite-element-based parametric study on welding-induced distortion of TIG-welded stainless steel 304 sheets. <i>Journal of Strain Analysis for Engineering Design</i> , 2011 , 46, 267-279	1.3	13
113	Combined Butt Joint Welding and Post Weld Heat Treatment Simulation Using SYSWELD and ABAQUS. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2011 , 225, 1-10	1.3	13
112	Microstructure and complex magnetic permeability of thermally sprayed NiZn ferrite coatings for electromagnetic wave absorbers. <i>Surface Engineering</i> , 2010 , 26, 484-490	2.6	8
111	Investigation into the effect of beam shape on melt pool characteristics using analytical modelling. <i>Optics and Lasers in Engineering</i> , 2010 , 48, 548-554	4.6	22
110	Characterization and solderability of cold sprayed SnIIu coatings on Al and Cu substrates. <i>Surface and Coatings Technology</i> , 2010 , 204, 1395-1404	4.4	25
109	The effects of microstructural features on the performance gap in corrosion resistance between bulk and HVOF sprayed Inconel 625. <i>Surface and Coatings Technology</i> , 2010 , 204, 2294-2301	4.4	58
108	X-ray photoelectron spectroscopy study of the passive films formed on thermally sprayed and wrought Inconel 625. <i>Applied Surface Science</i> , 2010 , 257, 786-794	6.7	23
107	Microstructure and wear properties of aluminum/aluminumBilicon composite coatings prepared by cold spraying. <i>Surface and Coatings Technology</i> , 2009 , 204, 503-510	4.4	44
106	Bonding Mechanisms in Cold Spraying: The Contributions of Metallurgical and Mechanical Components. <i>Journal of Thermal Spray Technology</i> , 2009 , 18, 364-379	2.5	224
105	Quantitatively Evaluating the Effect of Oxygen/Fuel Ratio on Fe2+ Content in HVOF-Sprayed Ni-Zn Ferrite Coatings. <i>Journal of Thermal Spray Technology</i> , 2009 , 18, 343-352	2.5	2
104	The Effect of Heat Treatment on the Oxidation Behavior of HVOF and VPS CoNiCrAlY Coatings. Journal of Thermal Spray Technology, 2009 , 18, 209-216	2.5	83
103	Effects of particle crushing in abrasion testing of steels with ash from biomass-fired powerplants. <i>Wear</i> , 2009 , 267, 34-42	3.5	13
102	Particle motion and modes of wear in the dry sandflubber wheel abrasion test. <i>Wear</i> , 2009 , 267, 2083-2	09.15	46
101	Microstructure evolution and thermal stability of an Fe-based amorphous alloy powder and thermally sprayed coatings. <i>Journal of Alloys and Compounds</i> , 2009 , 480, 351-359	5.7	52
100	Laser and arc weld methods for direct metal deposition of Waspaloy. <i>International Journal of Manufacturing Technology and Management</i> , 2009 , 17, 419	0.4	2
99	Deformation and damage mechanisms of multiwalled carbon nanotubes under high-velocity impact. <i>Scripta Materialia</i> , 2008 , 59, 499-502	5.6	37
98	Semi-automated structural characterisation of high velocity oxy fuel thermally sprayed WC-Co based coatings. <i>Journal of Physics: Conference Series</i> , 2008 , 126, 012081	0.3	

97	The effect of laser transformation notching on the controlled fracture of a high carbon (C70S6) steel. <i>Materials Science & Damp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 489, 273-284	5.3	16
96	Carbon nanotube reinforced aluminum composite coating via cold spraying. <i>Surface and Coatings Technology</i> , 2008 , 202, 5162-5169	4.4	175
95	Microstructure formation in Waspaloy multilayer builds following direct metal deposition with laser and wire. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 497, 260-269	5.3	36
94	A comparison of the abrasive wear behaviour of iron-chromium based hardfaced coatings deposited by SMAW and electric arc spraying. <i>Wear</i> , 2008 , 264, 542-549	3.5	52
93	Microstructure and abrasive wear behaviour of shielded metal arc welding hardfacings used in the sugarcane industry. <i>Wear</i> , 2007 , 263, 99-110	3.5	70
92	Analysis of microstructure formation in gas-atomised All 2 wt.% Sn wt.% Cu alloy powder. <i>Materials Science & Discounty Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 454-455, 252-259	5.3	9
91	John D. Hunt Symposium on Solidification Modeling and Microstructure Formation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2007 , 38, 1377-1377	2.3	0
90	A Method for Characterizing the Degree of Inter-particle Bond Formation in Cold Sprayed Coatings. Journal of Thermal Spray Technology, 2007 , 16, 566-570	2.5	60
89	Growth and characterization of Cu-catalyzed ZnO nanowires. <i>Journal of Physics: Conference Series</i> , 2007 , 61, 703-707	0.3	9
88	Low-Temperature Magnetic Properties of Hematite Nanorods. <i>Chemistry of Materials</i> , 2007 , 19, 916-92	19.6	70
87	Thermally Sprayed Quaternary Al-Sn Based Alloys for Applications in Automotive Journal Bearings. <i>Materials Science Forum</i> , 2006 , 519-521, 1317-1322	0.4	1
86	Spark plasma sintering assisted diamond formation from carbon nanotubes at very low pressure. <i>Nanotechnology</i> , 2006 , 17, 2187-2191	3.4	20
85	Two-dimensional tungsten oxide nanowire networks. <i>Applied Physics Letters</i> , 2006 , 89, 133116	3.4	27
84	Effect of cold spray deposition of a titanium coating on fatigue behavior of a titanium alloy. <i>Journal of Thermal Spray Technology</i> , 2006 , 15, 507-512	2.5	79
83	Crystallization kinetics of a bulk amorphous Cullill Ni alloy investigated by differential scanning calorimetry. <i>Journal of Alloys and Compounds</i> , 2006 , 415, 106-110	5.7	67
82	Superplastic formability of a Zr TiDiCuB e bulk metallic glass. <i>Journal of Alloys and Compounds</i> , 2006 , 415, 198-203	5.7	26
81	Growth and characterization of iron oxide nanorods/nanobelts prepared by a simple iron-water reaction. <i>Small</i> , 2006 , 2, 422-7	11	132
80	Direct synthesis of diamond from low purity carbon nanotubes. <i>Carbon</i> , 2006 , 44, 3136-3138	10.4	19

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79	A new criterion for evaluating the glass-forming ability of bulk metallic glasses. <i>Materials Science</i> & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 433, 155-160	5.3	130
78	Effect of deposition conditions on the properties and annealing behavior of cold-sprayed copper. Journal of Thermal Spray Technology, 2006 , 15, 255-262	2.5	41
77	Production of titanium deposits by cold-gas dynamic spray: Numerical modeling and experimental characterization. <i>Journal of Thermal Spray Technology</i> , 2006 , 15, 263-272	2.5	110
76	Microstructure and properties of thermally sprayed Al-Sn-based alloys for plain bearing applications. <i>Journal of Thermal Spray Technology</i> , 2006 , 15, 634-639	2.5	27
75	Enhanced thermal stability by pre-charged hydrogen of a Zr-based bulk metallic glass. <i>Journal of Alloys and Compounds</i> , 2005 , 400, 197-201	5.7	12
74	The microstructures of a thermally sprayed and heat treated Alū0 wt.%SnB wt.%Si alloy. <i>Materials Science & Microstructure and Processing</i> , 2005 , 403, 205-214	5.3	21
73	Conversion of carbon nanotubes to diamond by spark plasma sintering. <i>Carbon</i> , 2005 , 43, 1254-1258	10.4	54
72	Cold gas dynamic spraying of aluminum: The role of substrate characteristics in deposit formation. Journal of Thermal Spray Technology, 2005 , 14, 109-116	2.5	93
71	High-velocity oxyfuel reactive spraying of mechanically alloyed Ni-Ti-C powders. <i>Journal of Thermal Spray Technology</i> , 2005 , 14, 77-84	2.5	15
70	Sliding wear behaviour of conventional and nanostructured HVOF sprayed WCIIo coatings. <i>Wear</i> , 2005 , 259, 820-827	3.5	177
69	Enhanced glass forming ability of Fettotr Mowb alloys with Ni addition. <i>Materials Science</i> & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 402, 188-192	5.3	29
68	Glass-Forming Ability of an Iron-Based Alloy Enhanced by Co Addition and Evaluated by a New Criterion. <i>Chinese Physics Letters</i> , 2005 , 22, 1736-1738	1.8	42
67	Numerical modeling of in-flight characteristics of inconel 625 particles during high-velocity oxy-fuel thermal spraying. <i>Journal of Thermal Spray Technology</i> , 2004 , 13, 200-213	2.5	20
66	Coagulation equations with mass loss. <i>Journal of Engineering Mathematics</i> , 2004 , 49, 113-131	1.2	6
65	TEM assessment of HVOLF thermally sprayed All 2 wt.% Snl wt.% Cu alloy. <i>Materials Science</i> & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 595-	5 9 8	4
64	Microstructural characterisation of high velocity oxyfuel thermally sprayed Stellite 6. <i>Materials Science and Technology</i> , 2003 , 19, 1003-1011	1.5	23
63	Abrasive wear behaviour of Ni(Cr) iB2 coatings deposited by HVOF spraying of SHS-derived cermet powders. <i>Wear</i> , 2003 , 254, 340-349	3.5	40
62	Sliding wear behaviour of HVOF sprayed WCILo coatings deposited with both gas-fuelled and liquid-fuelled systems. <i>Wear</i> , 2003 , 255, 943-949	3.5	92

61	Microstructure formation and corrosion behaviour in HVOF-sprayed Inconel 625 coatings. <i>Materials Science & Microstructure and Processing</i> , 2003 , 344, 45-56	5.3	102
60	Thermally sprayed Ni(Cr)IIiB2 coatings using powder produced by self-propagating high temperature synthesis: microstructure and abrasive wear behaviour. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 336, 88-98	5.3	47
59	Influence of High Velocity Spraying Conditions on the Microstructure and Properties of an Al-12wt%Sn-1wt%Cu Alloys. <i>Materials Science Forum</i> , 2002 , 396-402, 1133-1138	0.4	2
58	Computational fluid dynamic modeling of gas flow characteristics in a high-velocity oxy-fuel thermal spray system. <i>Journal of Thermal Spray Technology</i> , 2001 , 10, 461-469	2.5	43
57	Microstructural characterisation of a Ni-Cr-B-C based alloy coating produced by high velocity oxy-fuel thermal spraying. <i>Surface and Coatings Technology</i> , 2001 , 139, 244-250	4.4	78
56	Microstructure and abrasive wear behaviour of FeCrIIiC coatings deposited by HVOF spraying of SHS powders. <i>Wear</i> , 2001 , 249, 246-253	3.5	44
55	A comparison of the abrasive wear behaviour of HVOF sprayed titanium carbide- and titanium boride-based cermet coatings. <i>Wear</i> , 2001 , 251, 1009-1016	3.5	75
54	The influence of HVOF powder feedstock characteristics on the abrasive wear behaviour of CrxCyNiCr coatings. <i>Wear</i> , 2001 , 249, 829-837	3.5	73
53	Microstructure formation in high velocity oxy-fuel thermally sprayed Ni©rMoB alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000 , 283, 242-250	5.3	39
52	Microstructural evolution in thermally sprayed WCITo coatings: comparison between nanocomposite and conventional starting powders. <i>Acta Materialia</i> , 2000 , 48, 1593-1604	8.4	267
51	Production of Ultrafine Microstructures in Al-Sn, Al-Sn-Cu and Al-Sn-Cu-Si Alloys for Use in Tribological Applications. <i>Materials Science Forum</i> , 2000 , 331-337, 519-526	0.4	15
50	Abrasive wear behaviour of conventional and nanocomposite HVOF-sprayed WCILo coatings. <i>Wear</i> , 1999 , 225-229, 789-798	3.5	311
49	The corrosion behavior and microstructure of high-velocity oxy-fuel sprayed nickel-base amorphous/nanocrystalline coatings. <i>Journal of Thermal Spray Technology</i> , 1999 , 8, 399-404	2.5	38
48	Phase transformations and phase equilibria in a TiB7% Al20% Mn alloy. <i>Intermetallics</i> , 1999 , 7, 663-669	3.5	9
47	An experimental study of phase transformations and a comparison with calculated phase equilibria in TiAlMn alloys. <i>Acta Materialia</i> , 1998 , 46, 1875-1886	8.4	15
46	Influence of heat treatment on the abrasive wear behaviour of HVOF sprayed WCILo coatings. <i>Surface and Coatings Technology</i> , 1998 , 105, 13-24	4.4	125
45	The growth of melt-textured superconductors. Superconductor Science and Technology, 1998, 11, 541-54	19 .1	4
44	SOLIDIFICATION MICROSTRUCTURES AND CALCULATED PHASE EQUILIBRIA IN THE Ti-Al-Mn SYSTEM. <i>Acta Materialia</i> , 1997 , 45, 2931-2947	8.4	18

43	The effect of electromagnetic stirring on macrostructure and macrosegregation in the aluminium alloy 7150. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1997 , 222, 140-148	5.3	31
42	The control of growth orientation during the production of melt-textured YBCO quasi-single crystals. <i>Superconductor Science and Technology</i> , 1996 , 9, 1092-1098	3.1	7
41	The influence of bulk liquid natural convection on the formation of the equiaxed regions in Al?Cu and Al?Si alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 1996 , 205, 31-39	5.3	11
40	The effect of electromagnetic stirring during solidification on the structure of Al-Si alloys. <i>Materials Science & Microstructure and Processing</i> , 1996 , 216, 47-60	5.3	117
39	Particle Collisions and Inclusion Removal in Molten Aluminium: A Numerical Simulation. <i>Materials Science Forum</i> , 1996 , 217-222, 159-164	0.4	0
38	Observations on crystal growth mechanisms in the directionally solidified high temperature superconductor Y1Ba2Cu3O7[] <i>Journal of Materials Science</i> , 1995 , 30, 4839-4846	4.3	1
37	The microstructure of CO2 laser welds in an Al-Fe-V-Si alloy. <i>Materials Science & Discourse A: Structural Materials: Properties, Microstructure and Processing</i> , 1995 , 196, 155-163	5.3	12
36	Nucleation of an Al alloy in a fibre reinforced Al alloy metal-matrix composite (MMC). <i>Journal of Materials Processing Technology</i> , 1995 , 51, 235-243	5.3	8
35	Measurements on fibre distribution in a fibre-reinforced Al metal-matrix composite (MMC) (matrix intercept-length measurements). <i>Journal of Materials Processing Technology</i> , 1995 , 51, 244-254	5.3	3
34	A review of reinforcement distribution and its measurement in metal matrix composites. <i>Journal of Materials Processing Technology</i> , 1994 , 41, 249-262	5.3	5
33	Observations on the microstructure and performance of an Al?Ti?C grain-refining master alloy. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1994 , 188, 283-290	5.3	25
32	Solidification macrostructures and macrosegregation in aluminum alloys cooled from above. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1994 , 25, 1097-110	2.3	7
31	Fracture of bead-on-plate CO2 laser welds in the Al?Li alloy 8090. <i>Scripta Metallurgica Et Materialia</i> , 1994 , 31, 1717-1722		5
30	Influence of microstructure on grain refining performance of AlliB master alloys. <i>Materials Science and Technology</i> , 1993 , 9, 97-103	1.5	46
29	Macrostructural development in aluminium alloys solidified vertically downwards. <i>Materials Science</i> & <i>amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1993 , 173, 123-127	5.3	5
28	Microsegregation in a fibre reinforced Al alloy metal-matrix composite (MMC). <i>Journal of Materials Processing Technology</i> , 1993 , 37, 475-486	5.3	1
27	Microstructural characterization of CO2 laser welds in the Al-Li based alloy 8090. <i>Journal of Materials Science</i> , 1993 , 28, 5469-5478	4.3	19
26	Electrical and magnetic properties of high Tcmelt growth processed YBaCuO rods. <i>Superconductor Science and Technology</i> , 1992 , 5, S296-S299	3.1	4

25	The influence of oxygen vacancies on flux pinning in (RE)Ba2Cu3O7- delta. <i>Superconductor Science and Technology</i> , 1992 , 5, S165-S168	3.1	6
24	Modelling of dendritic solidification using finite element method. <i>Materials Science and Technology</i> , 1992 , 8, 114-122	1.5	6
23	The effect of heating rate variations on secondary phases in YBa2Cu3O7[[Materials Letters, 1992, 13, 357-362]	3.3	19
22	Quantitative evaluation of fiber distributions in a continuously reinforced aluminium alloy using automatic image analysis. <i>Materials Characterization</i> , 1992 , 28, 189-203	3.9	12
21	Laser welding of aluminium lithium alloy 8090 1992 ,		1
20	A comparative study of solidification features in nickel-base superalloys: microstructural evolution and microsegregation. <i>Materials Science & Discourse and Processing</i> , 1991 , 145, 223-232	5.3	47
19	The influence of oxygen vacancies on flux pinning in (RE)BA2CU3O7\(\textit{D}\)Physica C: Superconductivity and Its Applications, 1991 , 185-189, 2159-2160	1.3	9
18	Development of solidification microstructures in a fibre reinforced alloy. <i>Journal of Materials Science</i> , 1991 , 26, 3565-3574	4.3	15
17	Critical current density and related microstructure of textured YBaCuO rods produced by a melt growth process. <i>Superconductor Science and Technology</i> , 1991 , 4, 701-706	3.1	13
16	Magnetisation measurements on melt-textured YBa2Cu3O7- delta. <i>Superconductor Science and Technology</i> , 1991 , 4, S238-S240	3.1	
15	Very high critical current in a long YBa2Cu3O7I3 ingle crystalline rod. <i>Journal of Applied Physics</i> , 1991 , 69, 8261-8264	2.5	8
14	Magnetisation measurements on melt-textured YBa/sub 2/Cu/sub 3/O/sub 7- delta /. <i>IEEE Transactions on Magnetics</i> , 1991 , 27, 1503-1505	2	
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