

# W Mark Rainforth

## List of Publications by Year in descending order

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267  
papers

7,612  
citations

50276

46  
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69  
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269  
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269  
docs citations

269  
times ranked

5426  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct observation of individual hydrogen atoms at trapping sites in a ferritic steel. <i>Science</i> , 2017, 355, 1196-1199.	12.6	224
2	Twin recrystallization mechanisms and exceptional contribution to texture evolution during annealing in a magnesium alloy. <i>Acta Materialia</i> , 2017, 126, 132-144.	7.9	210
3	Deformation mechanisms in a metastable beta titanium twinning induced plasticity alloy with high yield strength and high strain hardening rate. <i>Acta Materialia</i> , 2018, 152, 301-314.	7.9	188
4	Individual effect of recrystallisation nucleation sites on texture weakening in a magnesium alloy: Part 1- double twins. <i>Acta Materialia</i> , 2017, 135, 14-24.	7.9	145
5	Precipitation of NbC in a model austenitic steel. <i>Acta Materialia</i> , 2002, 50, 735-747.	7.9	132
6	Predicting microstructure and strength of maraging steels: Elemental optimisation. <i>Acta Materialia</i> , 2016, 117, 270-285.	7.9	125
7	Development of Microstructure and Crystallographic Texture during Stationary Shoulder Friction Stir Welding of Ti-6Al-4V. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011, 42, 2278-2289.	2.2	122
8	Basal slip mediated tension twin variant selection in magnesium WE43 alloy. <i>Acta Materialia</i> , 2019, 170, 1-14.	7.9	113
9	Deformation structures induced by sliding contact. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1992, 66, 621-641.	0.6	108
10	The wear behaviour of oxide ceramics-A Review. <i>Journal of Materials Science</i> , 2004, 39, 6705-6721.	3.7	108
11	Dissolution and precipitation behaviour in steels microalloyed with niobium during thermomechanical processing. <i>Acta Materialia</i> , 2015, 97, 392-403.	7.9	106
12	Individual effect of recrystallisation nucleation sites on texture weakening in a magnesium alloy: Part 2- shear bands. <i>Acta Materialia</i> , 2018, 145, 399-412.	7.9	104
13	Wear and friction of TiAlN/VN coatings against Al <sub>2</sub> O <sub>3</sub> in air at room and elevated temperatures. <i>Acta Materialia</i> , 2010, 58, 2912-2925.	7.9	100
14	Facile route to bulk ultrafine-grain steels for high strength and ductility. <i>Nature</i> , 2021, 590, 262-267.	27.8	98
15	Dry wear behaviour and its relation to microstructure of novel 6092 aluminium alloy-Ni <sub>3</sub> Al powder metallurgy composite. <i>Wear</i> , 2001, 251, 1421-1432.	3.1	96
16	A quantitative analysis of the influence of carbides size distributions on wear behaviour of high-speed steel in dry rolling/sliding contact. <i>Acta Materialia</i> , 2007, 55, 2443-2454.	7.9	96
17	The wear behaviour of high-chromium white cast irons as a function of silicon and Mischmetal content. <i>Wear</i> , 2001, 250, 449-461.	3.1	86
18	Wear mechanisms experienced by a work roll grade high speed steel under different environmental conditions. <i>Wear</i> , 2009, 267, 441-448.	3.1	83

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19	The role of trace additions of alumina to yttria tetragonal zirconia polycrystals (Y-TZP). <i>Scripta Materialia</i> , 2001, 45, 653-660.	5.2	80
20	The effect of titanium on the wear behaviour of a 16%Cr white cast iron under pure sliding. <i>Wear</i> , 2007, 263, 808-820.	3.1	78
21	Microstructural evolution at the worn surface: a comparison of metals and ceramics. <i>Wear</i> , 2000, 245, 162-177.	3.1	75
22	Through-thickness crystallographic texture of stationary shoulder friction stir welded aluminium. <i>Scripta Materialia</i> , 2011, 64, 45-48.	5.2	73
23	TEM observations of wear mechanisms of TiAlCrN and TiAlN/CrN coatings grown by combined steered-arc/unbalanced magnetron deposition. <i>Wear</i> , 1999, 225-229, 74-82.	3.1	72
24	Microabrasion corrosion of cast CoCrMo alloy in simulated body fluids. <i>Tribology International</i> , 2009, 42, 99-110.	5.9	72
25	Microstructure analysis of nanocrystalline Fe-Nd-B ribbons with enhanced hard magnetic properties. <i>Journal of Magnetism and Magnetic Materials</i> , 1993, 128, 307-312.	2.3	71
26	TiAlN based nanoscale multilayer coatings designed to adapt their tribological properties at elevated temperatures. <i>Thin Solid Films</i> , 2005, 485, 160-168.	1.8	70
27	β phase strengthened 1.2GPa metastable β <sup>2</sup> titanium alloy with high ductility. <i>Scripta Materialia</i> , 2019, 162, 77-81.	5.2	70
28	High resolution observations of friction-induced oxide and its interaction with the worn surface. <i>Tribology International</i> , 2002, 35, 731-748.	5.9	69
29	The effect of molybdenum on interphase precipitation and microstructures in microalloyed steels containing titanium and vanadium. <i>Acta Materialia</i> , 2018, 161, 374-387.	7.9	69
30	Quantifying crystallographic texture in the probe-dominated region of thick-section friction-stir-welded aluminium. <i>Scripta Materialia</i> , 2008, 59, 507-510.	5.2	68
31	Influence of a Single Grain Boundary on Domain Wall Motion in Ferroelectrics. <i>Advanced Functional Materials</i> , 2014, 24, 1409-1417.	14.9	66
32	Exploring the mechanism of Rare Earth texture evolution in a lean Mg-Zn-Ca alloy. <i>Scientific Reports</i> , 2019, 9, 7152.	3.3	65
33	Thermomechanical processing route to achieve ultrafine grains in low carbon microalloyed steels. <i>Acta Materialia</i> , 2016, 119, 43-54.	7.9	62
34	On the role of plastic deformation during the mild wear of alumina. <i>Acta Materialia</i> , 1998, 46, 6475-6483.	7.9	59
35	Lubricated sliding wear behaviour of aluminium alloy composites. <i>Wear</i> , 2005, 259, 577-589.	3.1	58
36	The effect of (Ti+Al):V ratio on the structure and oxidation behaviour of TiAlN/VN nano-scale multilayer coatings. <i>Surface and Coatings Technology</i> , 2004, 177-178, 252-259.	4.8	57

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37	Deceleration of hydrothermal degradation of 3Y-TZP by alumina and lanthana co-doping. <i>Acta Biomaterialia</i> , 2013, 9, 6226-6235.	8.3	56
38	Oxidation behaviour of nanoscale TiAlN/VN multilayer coatings. <i>Surface and Coatings Technology</i> , 2004, 177-178, 198-203.	4.8	55
39	The ubiquitous Beilby layer on aluminium surfaces. <i>Surface and Interface Analysis</i> , 2010, 42, 175-179.	1.8	53
40	3D analysis of thermal and stress evolution during laser cladding of bioactive glass coatings. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 59, 404-417.	3.1	53
41	Corrosion behaviour of mechanically polished AA7075-T6 aluminium alloy. <i>Surface and Interface Analysis</i> , 2010, 42, 185-188.	1.8	51
42	Sliding wear behaviour of SiC-Al <sub>2</sub> O <sub>3</sub> nanocomposites. <i>Wear</i> , 2005, 259, 553-561.	3.1	50
43	The wear behaviour of Al <sub>2</sub> O <sub>3</sub> -SiC ceramic nanocomposites. <i>Scripta Materialia</i> , 2000, 42, 555-560.	5.2	49
44	Molten salt synthesis of MAX phases in the Ti-Al-C system. <i>Journal of the European Ceramic Society</i> , 2018, 38, 4585-4589.	5.7	49
45	Hydrogen embrittlement mechanisms in advanced high strength steel. <i>Acta Materialia</i> , 2022, 223, 117488.	7.9	49
46	The rolling/sliding wear response of conventionally processed and spray formed high chromium content cast iron at ambient and elevated temperature. <i>Wear</i> , 1999, 225-229, 587-599.	3.1	48
47	The rolling sliding wear response of conventionally processed and spray formed high speed steel at ambient and elevated temperature. <i>Wear</i> , 2003, 255, 956-966.	3.1	48
48	Dry sliding wear behaviour of powder metallurgy Al-Mg-Si alloy-MoSi <sub>2</sub> composites and the relationship with the microstructure. <i>Wear</i> , 2011, 270, 658-665.	3.1	48
49	TEM observations of fatigue damage accumulation at the surface of the near- $\beta$ titanium alloy IMI 834. <i>Acta Materialia</i> , 1996, 44, 3453-3463.	7.9	47
50	Effect of Tool Geometry and Heat Input on the Hardness, Grain Structure, and Crystallographic Texture of Thick-Section Friction Stir-Welded Aluminium. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 271-284.	2.2	47
51	EBSD and TEM investigation of the hot deformation substructure characteristics of a type 316L austenitic stainless steel. <i>Journal of Microscopy</i> , 2004, 213, 285-295.	1.8	46
52	Elemental distributions and substrate rotation in industrial TiAlN/VN superlattice hard PVD coatings. <i>Surface and Coatings Technology</i> , 2004, 183, 275-282.	4.8	46
53	The wear of wrought aluminium alloys under dry sliding conditions. <i>Tribology International</i> , 2007, 40, 160-169.	5.9	45
54	Evolution of microstructure and hardening, and the role of Al <sub>3</sub> Ti coarsening, during extended thermal treatment in mechanically alloyed Al-Ti-O based materials. <i>Acta Materialia</i> , 2001, 49, 1209-1224.	7.9	44

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55	Wear behaviour of nanostructured alumina-titania coatings deposited by atmospheric plasma spray. <i>Wear</i> , 2009, 267, 1191-1197.	3.1	44
56	Work hardening behaviour at the worn surface of Al-Cu and Al-Si alloys. <i>Wear</i> , 1997, 203-204, 171-179.	3.1	43
57	Tribological investigation of TiAlCrN and TiAlN/CrN coatings grown by combined steered-arc/unbalanced magnetron deposition. <i>Vacuum</i> , 1999, 53, 123-126.	3.5	43
58	Title is missing!. <i>Journal of Materials Science</i> , 2001, 36, 2667-2672.	3.7	43
59	Domain Wall Motion Across Various Grain Boundaries in Ferroelectric Thin Films. <i>Journal of the American Ceramic Society</i> , 2015, 98, 1848-1857.	3.8	42
60	The role of silicon in the formation of the (Al <sub>5</sub> Cu <sub>6</sub> Mg <sub>2</sub> ) $\eta$ phase in Al-Cu-Mg alloys. <i>Journal of Materials Science</i> , 2000, 35, 1413-1418.	3.7	41
61	TEM studies of the wear of TiAlN/CrN superlattice coatings. <i>Scripta Materialia</i> , 2001, 45, 399-404.	5.2	41
62	Wear behaviour of rapidly solidified Fe <sub>68</sub> Cr <sub>18</sub> Mo <sub>2</sub> B <sub>12</sub> alloys. <i>Wear</i> , 1994, 172, 135-145.	3.1	39
63	Microstructure, crystallographic texture and mechanical properties of friction stir welded AA2017A. <i>Materials Characterization</i> , 2012, 64, 107-117.	4.4	39
64	The effect of thermal treatment, composition and substrate on the texture and magnetic properties of FeCo thin films. <i>Journal Physics D: Applied Physics</i> , 2000, 33, 1450-1459.	2.8	38
65	A comparison of crystallographic texture and grain structure development in aluminum generated by friction stir welding and high strain torsion. <i>Materials and Design</i> , 2016, 103, 259-267.	7.0	38
66	The effects of notch width on the SENB toughness for oxide ceramics. <i>Journal of the European Ceramic Society</i> , 1992, 10, 21-31.	5.7	37
67	The sliding wear of ceramics. <i>Ceramics International</i> , 1996, 22, 365-372.	4.8	37
68	The effect of phase constitution on the magnetic structure of nanophase NdFeB alloys observed by magnetic force microscopy. <i>Journal of Magnetism and Magnetic Materials</i> , 1998, 188, 109-118.	2.3	37
69	Dry sliding wear behaviour of some wrought, rapidly solidified powder metallurgy aluminium alloys. <i>Wear</i> , 2005, 259, 490-500.	3.1	37
70	Tribological response and characterization of Mo-W doped DLC coating. <i>Wear</i> , 2017, 376-377, 1622-1629.	3.1	37
71	The role of the tribofilm and roll-like debris in the wear of nanoscale nitride PVD coatings. <i>Wear</i> , 2007, 263, 1328-1334.	3.1	36
72	Effect of ageing on the microstructural evolution in a new design of maraging steels with carbon. <i>Acta Materialia</i> , 2020, 196, 101-121.	7.9	36

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73	Direct observation of precipitation along twin boundaries and dissolution in a magnesium alloy annealing at high temperature. Scripta Materialia, 2017, 138, 39-43.	5.2	35
74	Investigation of fundamental wear mechanisms at the piston ring and cylinder wall interface in internal combustion engines. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2007, 221, 333-343.	1.8	34
75	High temperature tribological performance of CrAlYN/CrN nanoscale multilayer coatings deposited on I <sup>3</sup> -TiAl. Wear, 2009, 267, 965-975.	3.1	34
76	Indentation properties of plasma sprayed Al <sub>2</sub> O <sub>3</sub> -13% TiO <sub>2</sub> nanocoatings. Acta Materialia, 2009, 57, 3148-3156.	7.9	34
77	Evolution of near-surface deformed layers during hot rolling of AA3104 aluminium alloy. Surface and Interface Analysis, 2010, 42, 180-184.	1.8	33
78	On the damage of a work roll grade high speed steel by thermal cycling. Engineering Failure Analysis, 2011, 18, 1576-1583.	4.0	33
79	Flow softening behavior during dynamic recrystallization in Mg-3Al-1Zn magnesium alloy. Scripta Materialia, 2012, 67, 277-280.	5.2	33
80	On the use of cryomilling and spark plasma sintering to achieve high strength in a magnesium alloy. Journal of Alloys and Compounds, 2016, 688, 1141-1150.	5.5	33
81	Formation and structure of a subsurface layer in hot rolled aluminium alloy AA3104 transfer bar. Tribology International, 2005, 38, 1050-1058.	5.9	32
82	EBSD study of the orientation dependence of substructure characteristics in a model Fe-30wt%Ni alloy subjected to hot deformation. Journal of Microscopy, 2005, 217, 138-151.	1.8	32
83	High Temperature Oxidation of a Work Roll Grade High Speed Steel. Oxidation of Metals, 2011, 76, 451-468.	2.1	32
84	Hydrogen embrittlement through the formation of low-energy dislocation nanostructures in nanoprecipitation-strengthened steels. Science Advances, 2020, 6, .	10.3	32
85	Solidification microstructure selection in the Al-rich Al-La, Al-Ce and Al-Nd systems. Journal of Crystal Growth, 1999, 197, 286-296.	1.5	31
86	Subsurface characterisation of wear on mechanically polished and electro-polished biomedical grade CoCrMo. Wear, 2015, 332-333, 650-661.	3.1	31
87	Domain pinning near a single-grain boundary in tetragonal and rhombohedral lead zirconate titanate films. Physical Review B, 2015, 91, .	3.2	31
88	A low-cost metastable beta Ti alloy with high elastic admissible strain and enhanced ductility for orthopaedic application. Journal of Alloys and Compounds, 2020, 835, 155391.	5.5	31
89	Coarsening of precipitates and dispersoids in aluminium alloy matrices: a consolidation of the available experimental data. Journal of Materials Science, 1994, 29, 1895-1900.	3.7	30
90	Magnetic force microscopy of nanocrystalline NdFeB ribbons: A study of tip-sample interaction using a well-characterised sample. Journal of Magnetism and Magnetic Materials, 1998, 182, 111-123.	2.3	30

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91	The effect of processing route, composition and hardness on the wear response of chromium bearing steels in a rolling-sliding configuration. <i>Wear</i> , 1997, 203-204, 220-229.	3.1	29
92	EBSD investigation of the microstructure and texture characteristics of hot deformed duplex stainless steel. <i>Journal of Microscopy</i> , 2006, 222, 85-96.	1.8	29
93	TEM-EELS study of low-friction superlattice TiAlN/VN coating: the wear mechanisms. <i>Tribology Letters</i> , 2006, 24, 171-178.	2.6	29
94	New compositional design for creating tough metallic glass composites with excellent work hardening. <i>Acta Materialia</i> , 2015, 86, 208-215.	7.9	29
95	Oxide scale behaviour on aluminium and steel under hot working conditions. <i>Journal of Materials Processing Technology</i> , 2006, 177, 36-40.	6.3	28
96	Effect of deformation twinning on crystallographic texture evolution in a Mg <sup>6.6</sup> Zn <sup>0.2</sup> Ca (ZX70) alloy during recrystallisation. <i>Journal of Alloys and Compounds</i> , 2019, 774, 556-564.	5.5	28
97	Austenite phase formation in rapidly solidified Fe-Cr-Mn-C steels. <i>Acta Materialia</i> , 1999, 47, 4555-4569.	7.9	27
98	Wear mechanisms of monolithic and multicomponent nitride coatings grown by combined arc etching and unbalanced magnetron sputtering. <i>Surface and Coatings Technology</i> , 2001, 146-147, 430-435.	4.8	27
99	Effect of strain reversal on the dynamic spheroidization of Ti-6Al-4V during hot deformation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2004, 35, 2993-3001.	2.2	27
100	Properties of mechanically milled and spark plasma sintered Al-15at.% MgB <sub>2</sub> composite materials. <i>Composites Science and Technology</i> , 2008, 68, 888-895.	7.8	27
101	Influence of near-surface deformed layers on filiform corrosion of AA3104 aluminium alloy. <i>Surface and Interface Analysis</i> , 2013, 45, 1553-1557.	1.8	27
102	Microstructural evolution during bainite transformation in a vanadium microalloyed TRIP-assisted steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 651, 822-830.	5.6	27
103	Microstructural changes induced by dry sliding wear of a A357/SiC metal matrix composite. <i>Materials Science and Technology</i> , 1997, 13, 41-48.	1.6	26
104	Oxidation Behavior and Mechanisms of TiAlN/VN Coatings. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2007, 38, 2464-2478.	2.2	26
105	Effect of Tribofilm Formation on the Dry Sliding Friction and Wear Properties of Magnetron Sputtered TiAlCrYN Coatings. <i>Tribology Letters</i> , 2009, 34, 113-124.	2.6	26
106	The effect of tip type and scan height on magnetic domain images obtained by MFM. <i>IEEE Transactions on Magnetics</i> , 1996, 32, 4138-4140.	2.1	25
107	An alternative method to separate and analyse the microtextures and microstructures of primary alpha grains and transformed beta grains in near- $\beta$ titanium alloy Timetal 834. <i>Materials Characterization</i> , 2005, 55, 388-394.	4.4	25
108	Structure, properties and response to heat treatment of melt-spun Al-Y and Al-La alloys. <i>Journal of Materials Science</i> , 1994, 29, 3913-3918.	3.7	24

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109	Constitutive equations of flow stress of magnesium AZ31 under dynamically recrystallizing conditions. <i>Journal of Materials Processing Technology</i> , 2014, 214, 1408-1417.	6.3	24
110	Dry sliding friction and wear behaviour of TiC-based ceramics and consequent effect of the evolution of grain buckling on wear mechanism. <i>Wear</i> , 2019, 422-423, 54-67.	3.1	24
111	Twin nucleation and variant selection in Mg alloys: An integrated crystal plasticity modelling and experimental approach. <i>International Journal of Plasticity</i> , 2020, 135, 102778.	8.8	24
112	Intermediate rhombohedral ( $\gamma$ -ZrO <sub>2</sub> ) phase formation at the surface of sintered Y-TZP's. <i>Journal of Materials Science Letters</i> , 1997, 16, 883-885.	0.5	23
113	EELS characterisation of bulk CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Micron</i> , 2006, 37, 412-419.	2.2	23
114	Microstructural Evolution of Nb-V-Mo and V Containing TRIP-assisted Steels during Thermomechanical Processing. <i>Journal of Materials Science and Technology</i> , 2017, 33, 311-320.	10.7	23
115	Segregation mediated heterogeneous structure in a metastable $\beta^2$ titanium alloy with a superior combination of strength and ductility. <i>Scientific Reports</i> , 2018, 8, 7512.	3.3	23
116	The effect of spray forming on the microstructure and properties of a high chromium white cast iron. <i>Journal of Materials Science</i> , 1999, 34, 2291-2301.	3.7	22
117	Microstructural evolution of Mn-based maraging steels and their influences on mechanical properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 674, 286-298.	5.6	22
118	Characterisation of strain-induced precipitation behaviour in microalloyed steels during thermomechanical controlled processing. <i>Materials Characterization</i> , 2017, 124, 83-89.	4.4	22
119	The influence of protein concentration, temperature and cathodic polarization on the surface status of CoCrMo biomedical grade alloys. <i>Applied Surface Science</i> , 2020, 499, 143908.	6.1	22
120	The application of laser scanning confocal microscopy to tribological research. <i>Wear</i> , 2001, 251, 1159-1168.	3.1	21
121	The effect of lubrication on the friction and wear of Biolox <sup>®</sup> $\Delta$ . <i>Acta Biomaterialia</i> , 2012, 8, 2348-2359.	8.3	21
122	Spinel $\leftrightarrow$ rock salt transformation in LiCoMnO <sub>4</sub> . <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016, 472, 20140991.	2.1	21
123	A comparison of domain images obtained for nanophase alloys by magnetic force microscopy and high resolution Lorentz electron microscopy. <i>IEEE Transactions on Magnetics</i> , 1995, 31, 3349-3351.	2.1	20
124	A comparative study of mechanically mixed layers (MMLs) characteristics of commercial aluminium alloys sliding against alumina and steel sliders. <i>Journal of Materials Processing Technology</i> , 2008, 201, 662-668.	6.3	20
125	Thermal stability of Al <sub>11</sub> Ce <sub>3</sub> and Al <sub>11</sub> La <sub>3</sub> /Al <sub>3</sub> Ni eutectics obtained by Bridgman growth. <i>Materials Science and Technology</i> , 1999, 15, 616-620.	1.6	19
126	Transmission Electron Microscopy Study of a 3Y-TZP Worn under Dry and Water-Lubricated Sliding Conditions. <i>Journal of the American Ceramic Society</i> , 1999, 82, 1483-1491.	3.8	19



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127	TEM characterisation of near surface deformation resulting from lubricated sliding wear of aluminium alloy and composites. <i>Wear</i> , 2007, 263, 707-718.	3.1	19
128	The effect of microstructure and composition on the rolling contact fatigue behaviour of cast bainitic steels. <i>Wear</i> , 2007, 263, 756-765.	3.1	19
129	3-D micromagnetic simulation of a Bloch line between C-sections of a 180° domain wall in a {100} iron film. <i>Journal of Magnetism and Magnetic Materials</i> , 2000, 218, 103-113.	2.3	18
130	A study of BioloX® delta subject to water lubricated reciprocating wear. <i>Tribology International</i> , 2010, 43, 1872-1881.	5.9	18
131	Powder bed generation in integrated modelling of additive layer manufacturing of orthopaedic implants. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 87, 519-530.	3.0	18
132	Application of cellular automata and Lattice Boltzmann methods for modelling of additive layer manufacturing. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2018, 28, 31-46.	2.8	18
133	Fatigue of a nickel base superalloy with bimodal grain size. <i>Materials Science and Technology</i> , 1996, 12, 1007-1014.	1.6	17
134	Strength of AISI 316L in torsion at high temperature. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 475, 257-267.	5.6	17
135	Electron energy loss spectroscopy of nano-scale CrAlYN/CrN/CrAlY(O)N/Cr(O)N multilayer coatings deposited by unbalanced magnetron sputtering. <i>Thin Solid Films</i> , 2010, 518, 5121-5127.	1.8	16
136	Subsurface modifications in powder metallurgy aluminium alloy composites reinforced with intermetallic MoSi <sub>2</sub> particles under dry sliding wear. <i>Wear</i> , 2014, 309, 126-133.	3.1	16
137	On the interstitial induced lattice inhomogeneities in nitrogen-expanded austenite. <i>Scripta Materialia</i> , 2020, 185, 146-151.	5.2	16
138	The coarsening of $\hat{\gamma}$ precipitates in an Al-4WT% Cu alloy as a result of frictional heating. <i>Scripta Materialia</i> , 1996, 34, 877-881.	5.2	15
139	Effect of alloy composition and reinforcement with silicon carbide on the microstructure and mechanical properties of three silicide dispersion strengthened aluminium alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001, 304-306, 524-528.	5.6	15
140	An analysis of microband orientation in a commercial purity aluminium alloy subjected to forward and reverse torsion using Electron Backscatter Diffraction (EBSD). <i>Journal of Microscopy</i> , 2006, 222, 97-104.	1.8	15
141	Dynamic surface microstructural changes during tribological contact that determine the wear behaviour of hip prostheses: metals and ceramics. <i>Faraday Discussions</i> , 2012, 156, 41.	3.2	15
142	The Impact of Strain Reversal on Microstructure Evolution and Orientation Relationships in Ti-6Al-4V with an Initial Alpha Colony Microstructure. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 5997-6007.	2.2	15
143	The influence of hydrogen on plasticity in pure iron—theory and experiment. <i>Scientific Reports</i> , 2020, 10, 10209.	3.3	15
144	The structure and properties of spray formed cold rolling mill work roll steels. <i>Journal of Materials Science</i> , 1998, 33, 3233-3244.	3.7	14

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145	3-D simulation of Bloch lines in 180° domain walls in thin iron films. <i>Journal of Magnetism and Magnetic Materials</i> , 1998, 177-181, 229-230.	2.3	14
146	MFM of nanocrystalline NdFeB: a study of the effect of processing route on the micromagnetic structure. <i>Journal of Magnetism and Magnetic Materials</i> , 1998, 190, 48-59.	2.3	14
147	The effect of heat treatment at 500–655°C on the microstructure and properties of mechanically alloyed Al–Ti–O based material. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003, 351, 344-357.	5.6	14
148	Electron energy-loss spectroscopy (EELS) studies of an yttria stabilized TZP ceramic. <i>Journal of the European Ceramic Society</i> , 2004, 24, 2023-2029.	5.7	14
149	Microstructure evolution of AISI 316L in torsion at high temperature. <i>Acta Materialia</i> , 2005, 53, 1263-1275.	7.9	14
150	A study of internal oxidation in carburized steels by glow discharge optical emission spectroscopy and scanning electron microscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2003, 58, 689-698.	2.9	13
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