

# W Mark Rainforth

## List of Publications by Year in descending order

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267  
papers

7,612  
citations

50170

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	Hydrogen embrittlement mechanisms in advanced high strength steel. <i>Acta Materialia</i> , 2022, 223, 117488.	3.8	49
2	Microstructure Evolution and Tensile Behaviour of a Cold Rolled 8 Wt Pct Mn Medium Manganese Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2022, 53, 597-609.	1.1	9
3	Insights into tribofilm formation on Ti-6V-4Al in a bioactive environment: Correlation between surface modification and micro-mechanical properties. <i>Acta Biomaterialia</i> , 2022, 141, 466-480.	4.1	9
4	Influence of tantalum composition on mechanical behavior and deformation mechanisms of TiZrHfTa high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2022, 903, 163796.	2.8	12
5	Microstructure and load bearing capacity of TiN/NbN superlattice coatings deposited on medical grade CoCrMo alloy by HIPIMS. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 132, 105267.	1.5	11
6	An alternative formation mechanism of {332}BCC twinning in metastable body-centered-cubic high entropy alloy. <i>Scripta Materialia</i> , 2022, 217, 114770.	2.6	6
7	Why Does Nitriding of Grain-Oriented Silicon Steel Become Slower at Higher Temperature?. <i>Steel Research International</i> , 2021, 92, 2000545.	1.0	0
8	Facile route to bulk ultrafine-grain steels for high strength and ductility. <i>Nature</i> , 2021, 590, 262-267.	13.7	98
9	Effect of cryomilling time on microstructure evolution and hardness of cryomilled AZ31 powders. <i>Materials Characterization</i> , 2021, 178, 111311.	1.9	9
10	Effect of grain size and crystallographic structure on the corrosion and tribocorrosion behaviour of a CoCrMo biomedical grade alloy in simulated body fluid. <i>Wear</i> , 2021, 478-479, 203884.	1.5	6
11	Effect of Potential and Microstructure on the Tribocorrosion Behaviour of Beta and Near Beta Ti Alloys II. <i>Journal of Bio- and Tribo-Corrosion</i> , 2021, 7, 1.	1.2	4
12	Correlation between the formation of tribofilm and repassivation in biomedical titanium alloys during tribocorrosion. <i>Tribology International</i> , 2021, 163, 107147.	3.0	11
13	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.	3.1	22
14	The influence of hydrogen on plasticity in pure iron—theory and experiment. <i>Scientific Reports</i> , 2020, 10, 10209.	1.6	15
15	Hydrogen embrittlement through the formation of low-energy dislocation nanostructures in nanoprecipitation-strengthened steels. <i>Science Advances</i> , 2020, 6, .	4.7	32
16	A low-cost metastable beta Ti alloy with high elastic admissible strain and enhanced ductility for orthopaedic application. <i>Journal of Alloys and Compounds</i> , 2020, 835, 155391.	2.8	31
17	Detailed In Situ Hot Stage Transmission Electron Microscope Observations of the Localized Pinning of a Mobile Ferrite-Austenite Interface in a Fe-C-Mn Alloy by a Single Oxidic Particle. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 3811-3818.	1.1	2
18	On the interstitial induced lattice inhomogeneities in nitrogen-expanded austenite. <i>Scripta Materialia</i> , 2020, 185, 146-151.	2.6	16

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19	Effect of ageing on the microstructural evolution in a new design of maraging steels with carbon. <i>Acta Materialia</i> , 2020, 196, 101-121.	3.8	36
20	The Effect of Heating Rate on Discontinuous Grain Boundary Alpha Formation in a Metastable Beta Titanium Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 3766-3771.	1.1	7
21	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.	4.1	24
22	Ramification of thermal expansion mismatch and phase transformation in TiC-particulate/SiC-matrix ceramic composite. <i>Ceramics International</i> , 2020, 46, 20488-20495.	2.3	9
23	Characterisation of a High-Power Impulse Magnetron Sputtered C/Mo/W wear resistant coating by transmission electron microscopy. <i>Surface and Coatings Technology</i> , 2019, 377, 124853.	2.2	4
24	Role of Titanium, Carbon, Boron, and Zirconium in Carbide and Porosity Formation during Equiaxed Solidification of Nickel-Based Superalloys. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 4171-4186.	1.2	6
25	Development of Ni-free Mn-stabilised maraging steels using Fe <sub>2</sub> SiTi precipitates. <i>Acta Materialia</i> , 2019, 174, 260-270.	3.8	12
26	Influence of sintering environment on the spark plasma sintering of Maxthal 312 (nominally-Ti <sub>3</sub> SiC <sub>2</sub> ) and the role of powder particle size on densification. <i>Journal of Alloys and Compounds</i> , 2019, 801, 208-219.	2.8	13
27	Exploring the mechanism of "Rare Earth" texture evolution in a lean Mg "Zn" Ca alloy. <i>Scientific Reports</i> , 2019, 9, 7152.	1.6	65
28	Basal slip mediated tension twin variant selection in magnesium WE43 alloy. <i>Acta Materialia</i> , 2019, 170, 1-14.	3.8	113
29	β phase strengthened 1.2GPa metastable β <sup>2</sup> titanium alloy with high ductility. <i>Scripta Materialia</i> , 2019, 162, 77-81.	2.6	70
30	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.	1.1	47
31	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.	1.5	24
32	The formation mechanism of reverted austenite in Mn-based maraging steels. <i>Journal of Materials Science</i> , 2019, 54, 6624-6631.	1.7	9
33	Effect of deformation twinning on crystallographic texture evolution in a Mg "6.6Zn" 0.2Ca (ZX70) alloy during recrystallisation. <i>Journal of Alloys and Compounds</i> , 2019, 774, 556-564.	2.8	28
34	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.	3.8	188
35	The effect of thermomechanical controlled processing on recrystallisation and subsequent deformation-induced ferrite transformation textures in microalloyed steels. <i>Journal of Materials Science</i> , 2018, 53, 6922-6938.	1.7	6
36	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.	3.8	104

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37	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.	1.6	18
38	Quantifying Crystallographic Texture Variation in a Titanium Billet. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 375, 012019.	0.3	4
39	Crystallographic Texture Investigation of Thick Section Friction Stir Welded AA6082 and AA5083 Using EBSD. <i>Key Engineering Materials</i> , 2018, 786, 44-51.	0.4	3
40	Wear Resistance of Stainless Steel Coatings on ZE41 Magnesium Alloy. <i>Journal of Thermal Spray Technology</i> , 2018, 27, 1615-1631.	1.6	13
41	The effect of molybdenum on interphase precipitation and microstructures in microalloyed steels containing titanium and vanadium. <i>Acta Materialia</i> , 2018, 161, 374-387.	3.8	69
42	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.	1.6	23
43	Molten salt synthesis of MAX phases in the Ti-Al-C system. <i>Journal of the European Ceramic Society</i> , 2018, 38, 4585-4589.	2.8	49
44	Enhancing ductility and strength of nanostructured Mg alloy by in-situ powder casting during spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2018, 769, 71-77.	2.8	12
45	Direct observation of precipitation along twin boundaries and dissolution in a magnesium alloy annealing at high temperature. <i>Scripta Materialia</i> , 2017, 138, 39-43.	2.6	35
46	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.	3.8	145
47	Direct observation of individual hydrogen atoms at trapping sites in a ferritic steel. <i>Science</i> , 2017, 355, 1196-1199.	6.0	224
48	Twin recrystallization mechanisms and exceptional contribution to texture evolution during annealing in a magnesium alloy. <i>Acta Materialia</i> , 2017, 126, 132-144.	3.8	210
49	Characterisation of strain-induced precipitation behaviour in microalloyed steels during thermomechanical controlled processing. <i>Materials Characterization</i> , 2017, 124, 83-89.	1.9	22
50	Tribological response and characterization of Mo-W doped DLC coating. <i>Wear</i> , 2017, 376-377, 1622-1629.	1.5	37
51	Characterisation of the wear mechanisms in retrieved alumina-on-alumina total hip replacements. <i>Wear</i> , 2017, 376-377, 212-222.	1.5	7
52	Microstructural Evolution of Nb-W-Mo and V Containing TRIP-assisted Steels during Thermomechanical Processing. <i>Journal of Materials Science and Technology</i> , 2017, 33, 311-320.	5.6	23
53	Correlation of the wear transition in CoCrMo alloys with the formation of a nanocrystalline surface layer and a proteinaceous surface film. <i>Wear</i> , 2017, 376-377, 223-231.	1.5	10
54	Strain-mediated converse magnetoelectric coupling strength manipulation by a thin titanium layer. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	9

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55	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.	3.3	38
56	Effect of Nb-Mo additions on precipitation behaviour in V microalloyed TRIP-assisted steels. <i>Materials Science and Technology</i> , 2016, 32, 1721-1729.	0.8	10
57	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.	1.5	18
58	On the use of cryomilling and spark plasma sintering to achieve high strength in a magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2016, 688, 1141-1150.	2.8	33
59	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.	2.6	22
60	Thermomechanical processing route to achieve ultrafine grains in low carbon microalloyed steels. <i>Acta Materialia</i> , 2016, 119, 43-54.	3.8	62
61	Predicting microstructure and strength of maraging steels: Elemental optimisation. <i>Acta Materialia</i> , 2016, 117, 270-285.	3.8	125
62	Optimization of magnetocaloric properties of arc-melted and spark plasma-sintered LaFe <sub>11.6</sub> Si <sub>1.4</sub> . <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	12
63	Characterisation of L21-ordered Ni <sub>2</sub> TiAl precipitates in Fe Mn maraging steels. <i>Materials Characterization</i> , 2016, 118, 199-205.	1.9	13
64	Coherent Growth of $\text{Fe}_2\text{O}_3$ in Ti and Nd Co-doped BiFeO <sub>3</sub> Thin Films. <i>Materials Research Letters</i> , 2016, 4, 168-173.	4.1	2
65	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.	1.0	21
66	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.	1.5	53
67	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.	2.6	27
68	Electric field-controlled magnetization in bilayered magnetic films for magnetoelectric memory. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	5
69	Stabilisation of Fe <sub>2</sub> O <sub>3</sub> -rich Perovskite Nanophase in Epitaxial Rare-earth Doped BiFeO <sub>3</sub> Films. <i>Scientific Reports</i> , 2015, 5, 13066.	1.6	9
70	Sub-surface characterisation of tribological contact zone of metal hip prostheses. <i>Journal of Physics: Conference Series</i> , 2015, 644, 012029.	0.3	2
71	Cross sectional TEM analysis of duplex HIPIMS and DC magnetron sputtered Mo and W doped carbon coatings. <i>Journal of Physics: Conference Series</i> , 2015, 644, 012011.	0.3	0
72	Subsurface characterisation of wear on mechanically polished and electro-polished biomedical grade CoCrMo. <i>Wear</i> , 2015, 332-333, 650-661.	1.5	31

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73	New compositional design for creating tough metallic glass composites with excellent work hardening. <i>Acta Materialia</i> , 2015, 86, 208-215.	3.8	29
74	Dissolution and precipitation behaviour in steels microalloyed with niobium during thermomechanical processing. <i>Acta Materialia</i> , 2015, 97, 392-403.	3.8	106
75	Giant electric field tunable magnetic properties in a Co <sub>50</sub> /Fe <sub>50</sub> /lead magnesium niobate/lead titanate multiferroic heterostructure. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 305005.	1.3	2
76	Characterisation of the oxide film on the taper interface from retrieved large diameter metal on polymer modular total hip replacements. <i>Tribology International</i> , 2015, 89, 86-96.	3.0	9
77	Domain pinning near a single-grain boundary in tetragonal and rhombohedral lead zirconate titanate films. <i>Physical Review B</i> , 2015, 91, .	1.1	31
78	Domain Wall Motion Across Various Grain Boundaries in Ferroelectric Thin Films. <i>Journal of the American Ceramic Society</i> , 2015, 98, 1848-1857.	1.9	42
79	Numerical analysis of highly reactive interfaces in processing of nanocrystallised multilayered metallic materials by using duplex technique. <i>Surface and Coatings Technology</i> , 2015, 277, 170-180.	2.2	5
80	Constitutive equations of flow stress of magnesium AZ31 under dynamically recrystallizing conditions. <i>Journal of Materials Processing Technology</i> , 2014, 214, 1408-1417.	3.1	24
81	Piezoelectrics: Influence of a Single Grain Boundary on Domain Wall Motion in Ferroelectrics (Adv.) <i>Tj ETQq1 1 0.784314 rgB3 /Overl</i>	7.8	66
82	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.	1.1	15
83	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.	1.5	16
84	Influence of a Single Grain Boundary on Domain Wall Motion in Ferroelectrics. <i>Advanced Functional Materials</i> , 2014, 24, 1409-1417.	7.8	66
85	Wear and degradation on retrieved zirconia femoral heads. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 31, 145-151.	1.5	11
86	Oxide Structures Formed During the High Temperature Oxidation of Hot Mill Work Rolls. <i>Oxidation of Metals</i> , 2013, 80, 191-203.	1.0	12
87	Deceleration of hydrothermal degradation of 3Y-TZP by alumina and lanthana co-doping. <i>Acta Biomaterialia</i> , 2013, 9, 6226-6235.	4.1	56
88	Influence of near-surface deformed layers on filiform corrosion of AA3104 aluminium alloy. <i>Surface and Interface Analysis</i> , 2013, 45, 1553-1557.	0.8	27
89	New Recrystallisation Behaviour Seen in Magnesium Alloy Elektron 675. <i>Materials Science Forum</i> , 2012, 715-716, 171-172.	0.3	0
90	On the Effect of Strain Reversal on Static Recrystallisation and Strain-Induced Precipitation Process Kinetics in Microalloyed Steels. <i>Materials Science Forum</i> , 2012, 715-716, 655-660.	0.3	5

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91	Stability in Air of Silver and Silver Oxide Nanoparticle Shells Deposited Over Silica Spheres Without Using Coupling Agents. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 8158-8164.	0.9	3
92	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.	1.6	15
93	Transmission electron microscopy analysis of worn alumina hip replacement prostheses. <i>Acta Materialia</i> , 2012, 60, 2061-2072.	3.8	12
94	The effect of lubrication on the friction and wear of Biolox <sup>®</sup> Δ. <i>Acta Biomaterialia</i> , 2012, 8, 2348-2359.	4.1	21
95	Microstructure, crystallographic texture and mechanical properties of friction stir welded AA2017A. <i>Materials Characterization</i> , 2012, 64, 107-117.	1.9	39
96	Flow softening behavior during dynamic recrystallization in Mg <sup>3</sup> Al <sup>1</sup> Zn magnesium alloy. <i>Scripta Materialia</i> , 2012, 67, 277-280.	2.6	33
97	Characterization of worn alumina hip replacement prostheses. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012, 100B, 121-132.	1.6	6
98	The Use of Fe-30% Ni and Fe-30% Ni <sup>1</sup> Nb Alloys as Model Systems for Studying the Microstructural Evolution during the Hot Deformation of Austenite. <i>Materials and Manufacturing Processes</i> , 2011, 26, 127-131.	2.7	12
99	Through-thickness crystallographic texture of stationary shoulder friction stir welded aluminium. <i>Scripta Materialia</i> , 2011, 64, 45-48.	2.6	73
100	Wear of hydrogen free C/Cr PVD coating against Al <sub>2</sub> O <sub>3</sub> at room temperature. <i>Wear</i> , 2011, 271, 2150-2156.	1.5	12
101	Failure Modes of the Oxide Scale Formed on a Work Roll Grade High Speed Steel. <i>Oxidation of Metals</i> , 2011, 76, 149-160.	1.0	11
102	High Temperature Oxidation of a Work Roll Grade High Speed Steel. <i>Oxidation of Metals</i> , 2011, 76, 451-468.	1.0	32
103	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.	1.1	122
104	On the damage of a work roll grade high speed steel by thermal cycling. <i>Engineering Failure Analysis</i> , 2011, 18, 1576-1583.	1.8	33
105	Dry sliding wear behaviour of powder metallurgy Al <sup>1</sup> Mg <sup>1</sup> Si alloy-MoSi <sub>2</sub> composites and the relationship with the microstructure. <i>Wear</i> , 2011, 270, 658-665.	1.5	48
106	C/CrC nanocomposite coating deposited by magnetron sputtering at high ion irradiation conditions. <i>Journal of Applied Physics</i> , 2011, 110, 073301.	1.1	4
107	EELS and ELNES studies of nano-scale nitride multilayers deposited by unbalanced magnetron sputtering. <i>Journal of Physics: Conference Series</i> , 2010, 241, 012046.	0.3	0
108	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.	3.8	100

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109	A study of BioloX <sup>®</sup> delta subject to water lubricated reciprocating wear. Tribology International, 2010, 43, 1872-1881.	3.0	18
110	Electron energy loss spectroscopy of nano-scale CrAlYN/CrN <sup>®</sup> CrAlY(O)N/Cr(O)N multilayer coatings deposited by unbalanced magnetron sputtering. Thin Solid Films, 2010, 518, 5121-5127.	0.8	16
111	The role of helium ion microscopy in the characterisation of complex three-dimensional nanostructures. Ultramicroscopy, 2010, 110, 1178-1184.	0.8	6
112	Evolution of near <sup>®</sup> surface deformed layers during hot rolling of AA3104 aluminium alloy. Surface and Interface Analysis, 2010, 42, 180-184.	0.8	33
113	Corrosion behaviour of mechanically polished AA7075 <sup>®</sup> T6 aluminium alloy. Surface and Interface Analysis, 2010, 42, 185-188.	0.8	51
114	The ubiquitous Beilby layer on aluminium surfaces. Surface and Interface Analysis, 2010, 42, 175-179.	0.8	53
115	Tracing C changes in a C/CrC PVD coating using Raman spectroscopy and EELS. Journal of Physics: Conference Series, 2010, 241, 012108.	0.3	4
116	Oxide scale modelling in hot rolling: assumptions, numerical techniques and examples of prediction. Ironmaking and Steelmaking, 2010, 37, 276-282.	1.1	3
117	Effect of Tribofilm Formation on the Dry Sliding Friction and Wear Properties of Magnetron Sputtered TiAlCrYN Coatings. Tribology Letters, 2009, 34, 113-124.	1.2	26
118	Materials for engineers. Materials Today, 2009, 12, 54.	8.3	0
119	Microabrasion <sup>®</sup> corrosion of cast CoCrMo alloy in simulated body fluids. Tribology International, 2009, 42, 99-110.	3.0	72
120	Wear behaviour of nanostructured alumina <sup>®</sup> titanium coatings deposited by atmospheric plasma spray. Wear, 2009, 267, 1191-1197.	1.5	44
121	High temperature tribological performance of CrAlYN/CrN nanoscale multilayer coatings deposited on I <sup>3</sup> -TiAl. Wear, 2009, 267, 965-975.	1.5	34
122	Wear mechanisms experienced by a work roll grade high speed steel under different environmental conditions. Wear, 2009, 267, 441-448.	1.5	83
123	A <sup>®</sup> 3-body <sup>™</sup> abrasion wear study of bioceramics for total hip joint replacements. Wear, 2009, 267, 2122-2131.	1.5	9
124	Indentation properties of plasma sprayed Al <sub>2</sub> O <sub>3</sub> <sup>®</sup> 13% TiO <sub>2</sub> nanocoatings. Acta Materialia, 2009, 57, 3148-3156.	3.8	34
125	Degradation of a C/CrC PVD coating after annealing in Ar+H <sub>2</sub> at 700 <sup>®</sup> °C studied by Raman spectroscopy and transmission electron microscopy. Materials at High Temperatures, 2009, 26, 169-176.	0.5	3
126	Properties of mechanically milled and spark plasma sintered Al <sup>®</sup> 15at.% MgB <sub>2</sub> composite materials. Composites Science and Technology, 2008, 68, 888-895.	3.8	27



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127	Mechanism of Oxidation of Austenitic Stainless Steels under Conditions of Hot Rolling in Steckel Mills. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 2477-2485.	1.1	4
128	Factors Affecting the Development of Oxide Scales on Austenitic Stainless Steels during Hot Rolling in Steckel Mills. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 2486-2494.	1.1	6
129	Strength of AISI 316L in torsion at high temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 475, 257-267.	2.6	17
130	A comparative study of mechanically mixed layers (MMLs) characteristics of commercial aluminium alloys sliding against alumina and steel sliders. Journal of Materials Processing Technology, 2008, 201, 662-668.	3.1	20
131	Quantifying crystallographic texture in the probe-dominated region of thick-section friction-stir-welded aluminium. Scripta Materialia, 2008, 59, 507-510.	2.6	68
132	EELS characterisation and valence determination of Mn minerals from the Kalahari manganese field in South Africa. Journal of Physics: Conference Series, 2008, 126, 012045.	0.3	1
133	Oxidation performance of nano-scale multilayer coatings on $\hat{3}$ -TiAl. Journal of Physics: Conference Series, 2008, 126, 012022.	0.3	2
134	Validation of neutron texture data on GEM at ISIS using electron backscattered diffraction. Measurement Science and Technology, 2008, 19, 034002.	1.4	6
135	3D surface reconstruction and FIB microscopy of worn alumina hip prostheses. Journal of Physics: Conference Series, 2008, 126, 012044.	0.3	5
136	Microstructure and mechanical properties of sputtered intermetallic Al-Au coatings. Journal of Applied Physics, 2007, 102, 023523.	1.1	9
137	Thermal stability of sputtered intermetallic Al-Au coatings. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2007, 25, 1402-1406.	0.9	9
138	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.	1.0	34
139	On the structure and composition of nanoscale TiAlN/VN multilayers. Philosophical Magazine, 2007, 87, 967-978.	0.7	7
140	The effect of titanium on the wear behaviour of a 16%Cr white cast iron under pure sliding. Wear, 2007, 263, 808-820.	1.5	78
141	TEM characterisation of near surface deformation resulting from lubricated sliding wear of aluminium alloy and composites. Wear, 2007, 263, 707-718.	1.5	19
142	The effect of microstructure and composition on the rolling contact fatigue behaviour of cast bainitic steels. Wear, 2007, 263, 756-765.	1.5	19
143	The wear of wrought aluminium alloys under dry sliding conditions. Tribology International, 2007, 40, 160-169.	3.0	45
144	A quantitative analysis of the influence of carbides size distributions on wear behaviour of high-speed steel in dry rolling/sliding contact. Acta Materialia, 2007, 55, 2443-2454.	3.8	96

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145	The role of the tribofilm and roll-like debris in the wear of nanoscale nitride PVD coatings. <i>Wear</i> , 2007, 263, 1328-1334.	1.5	36
146	Oxidation Behavior and Mechanisms of TiAlN/VN Coatings. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2007, 38, 2464-2478.	1.1	26
147	Characterisation of alumina hip-joint wear by FIB Microscopy. <i>Journal of Physics: Conference Series</i> , 2006, 26, 343-346.	0.3	6
148	EBSD investigation of the effect of strain path changes on the microstructure and texture of duplex stainless steel during hot deformation. <i>Journal of Physics: Conference Series</i> , 2006, 26, 331-334.	0.3	7
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