Paul R Munroe

List of Publications by Year
in descending order

424 papers	17,048 citations	16451 64 h-index	26613 107 g-index
426 all docs	426 docs citations	426 times ranked	16475 citing authors

#	Article	IF	Citations
1	Enhancement of the critical current density and flux pinning of MgB2 superconductor by nanoparticle SiC doping. Applied Physics Letters, 2002, 81, 3419-3421.	3.3	770
2	A three-year experiment confirms continuous immobilization of cadmium and lead in contaminated paddy field with biochar amendment. Journal of Hazardous Materials, 2014, 272, 121-128.	12.4	482
3	Mesoporous LiFePO₄/C Nanocomposite Cathode Materials for High Power Lithium Ion Batteries with Superior Performance. Advanced Materials, 2010, 22, 4944-4948.	21.0	380
4	Porous Graphene Nanoarchitectures: An Efficient Catalyst for Low Charge-Overpotential, Long Life, and High Capacity Lithiumâ€“Oxygen Batteries. Nano Letters, 2014, 14, 3145-3152.	9.1	329
5	Shifting paradigms: development of high-efficiency biochar fertilizers based on nano-structures and soluble components. Carbon Management, 2013, 4, 323-343.	2.4	310
6	Imaging of mineral-enriched biochar by FTIR, Raman and SEMâ€“EDX. Vibrational Spectroscopy, 2012, 62, 248-257.	2.2	303
7	Water extractable organic carbon in untreated and chemical treated biochars. Chemosphere, 2012, 87, 151-157.	8.2	284
8	Dendriteâ€Free Sodiumâ€Metal Anodes for Highâ€Energy Sodiumâ€Metal Batteries. Advanced Materials, 2018, 30, e1801334.	21.0	267
9	Fabrication and Dispersion of Gold-Shell-Protected Magnetite Nanoparticles: Systematic Control Using Polyethyleneimine. Chemistry of Materials, 2009, 21, 673-681.	6.7	253
10	FIB-induced damage in silicon. Journal of Microscopy, 2004, 214, 213-221.	1.8	213
11	Nanoscale organo-mineral reactions of biochars in ferrosol: an investigation using microscopy. Plant and Soil, 2012, 357, 369-380.	3.7	209
12	Three-Dimensional Microstructural Characterization Using Focused Ion Beam Tomography. MRS Bulletin, 2007, 32, 408-416.	3.5	190
13	Comparative analysis of the microbial communities in agricultural soil amended with enhanced biochars or traditional fertilisers. Agriculture, Ecosystems and Environment, 2014, 191, 73-82.	5.3	171
14	Structural transitions and complex domain structures across a ferroelectric-to-antiferroelectric phase boundary in epitaxial Sm-doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>BiFeO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:m films. Physical Review B, 2009, 80, .	3.2	170
15	The application of focused ion beam microscopy in the material sciences. Materials Characterization, 2009, 60, 2-13.	4.4	167
16	Microstructural and associated chemical changes during the composting of a high temperature biochar: Mechanisms for nitrate, phosphate and other nutrient retention and release. Science of the Total Environment, 2018, 618, 1210-1223.	8.0	163
17	Ruthenium nanocrystals as cathode catalysts for lithium-oxygen batteries with a superior performance. Scientific Reports, 2013, 3, 2247.	3.3	158
18	Mineralâ€“Biochar Composites: Molecular Structure and Porosity. Environmental Science & Technology, 2016, 50, 7706-7714.	10.0	148

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19	Novel nano-silicon/polypyrrole composites for lithium storage. Electrochemistry Communications, 2007, 9, 941-946.	4.7	141
20	Biochar bound urea boosts plant growth and reduces nitrogen leaching. Science of the Total Environment, 2020, 701, 134424.	8.0	137
21	Substitution-induced pinning in MgB2superconductor doped with SiC nano-particles. Superconductor Science and Technology, 2002, 15, 1587-1591.	3.5	130
22	Three-dimensional pie-like current collectors for dendrite-free lithium metal anodes. Energy Storage Materials, 2018, 11, 127-133.	18.0	124
23	Control of nano carbon substitution for enhancing the critical current density in MgB2. Superconductor Science and Technology, 2006, 19, 596-599.	3.5	122
24	The Electrochemical Properties of Biochars and How They Affect Soil Redox Properties and Processes. Agronomy, 2015, 5, 322-340.	3.0	122
25	Effect of nano-carbon particle doping on the flux pinning properties of MgB2 superconductor. Physica C: Superconductivity and Its Applications, 2003, 390, 185-190.	1.2	121
26	Chemolithotrophic processes in the bacterial communities on the surface of mineral-enriched biochars. ISME Journal, 2017, 11, 1087-1101.	9.8	121
27	Crossing an Interface: Ferroelectric Control of Tunnel Currents in Magnetic Complex Oxide Heterostructures. Advanced Functional Materials, 2010, 20, 2436-2441.	14.9	120
28	Influence of Ni nanoparticle on the morphology and growth of interfacial intermetallic compounds between Snâ€“3.8Agâ€“0.7Cu lead-free solder and copper substrate. Intermetallics, 2013, 33, 8-15.	3.9	120
29	Shear banding and recrystallization texture development in a multilayered Al alloy sheet produced by accumulative roll bonding. Acta Materialia, 2009, 57, 29-40.	7.9	108
30	Designing superhard, self-toughening CrAlN coatings through grain boundary engineering. Acta Materialia, 2012, 60, 5735-5744.	7.9	108
31	Indentation-induced damage in GaN epilayers. Applied Physics Letters, 2002, 80, 383-385.	3.3	107
32	The effect of grain size on the yield strength of FeAl and NiAl. Acta Metallurgica Et Materialia, 1991, 39, 1637-1644.	1.8	104
33	Insight into microstructural and magnetic properties of flame-made Î³-Fe2O3 nanoparticles. Journal of Materials Chemistry, 2007, 17, 4876.	6.7	99
34	Hierarchical NiCo2O4 nanorods as an efficient cathode catalyst for rechargeable non-aqueous Liâ€“O2 batteries. Electrochemistry Communications, 2013, 31, 88-91.	4.7	99
35	High transport critical current density and largeHc2andHirrin nanoscale SiC doped MgB2wires sintered at low temperature. Superconductor Science and Technology, 2005, 18, 658-666.	3.5	97
36	Effects of Enriched Biochars Containing Magnetic Iron Nanoparticles on Mycorrhizal Colonisation, Plant Growth, Nutrient Uptake and Soil Quality Improvement. Pedosphere, 2015, 25, 749-760.	4.0	96

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37	Phosphorus and Oxygen Dualâ€Doped Porous Carbon Spheres with Enhanced Reaction Kinetics as Anode Materials for Highâ€Performance Potassiumâ€Ion Hybrid Capacitors. Advanced Functional Materials, 2021, 31, 2102060.	14.9	96
38	Mechanical deformation of InP and GaAs by spherical indentation. Applied Physics Letters, 2001, 78, 3235-3237.	3.3	94
39	Spherical Clusters of NiO Nanoshafts for Lithium-Ion Battery Anodes. Electrochemical and Solid-State Letters, 2006, 9, A524.	2.2	92
40	Superconductivity, critical current density, and flux pinning in MgB2â^'x(SiC)x/2 superconductor after SiC nanoparticle doping. Journal of Applied Physics, 2003, 94, 1850-1856.	2.5	91
41	Contact-induced defect propagation in ZnO. Applied Physics Letters, 2002, 80, 4537-4539.	3.3	90
42	Nanocomposites of CoO and a mesoporous carbon (CMK-3) as a high performance cathode catalyst for lithium-oxygen batteries. Nano Research, 2012, 5, 460-469.	10.4	90
43	Reducing the macroparticle content of cathodic arc evaporated TiN coatings. Surface and Coatings Technology, 2004, 183, 283-294.	4.8	87
44	Preparation of Î±-Fe2O3 submicro-flowers by a hydrothermal approach and their electrochemical performance in lithium-ion batteries. Electrochimica Acta, 2008, 53, 4213-4218.	5.2	86
45	Resolution enhancement by subtraction of confocal signals taken at different pinhole sizes. Micron, 2003, 34, 293-300.	2.2	85
46	Mesoporous hexagonal Co3O4 for high performance lithium ion batteries. Scientific Reports, 2014, 4, 6519.	3.3	84
47	Deformation mechanisms of TiN multilayer coatings alternated by ductile or stiff interlayers. Acta Materialia, 2008, 56, 852-861.	7.9	83
48	Construction of Hierarchical K_{1.39}Mn₃O₆ Spheres via AlF₃ Coating for Highâ€Performance Potassiumâ€Ion Batteries. Advanced Energy Materials, 2019, 9, 1803757.	19.5	83
49	Hierarchical macroporous/mesoporous NiCo₂O₄nanosheets as cathode catalysts for rechargeable Liâ€“O₂batteries. Journal of Materials Chemistry A, 2014, 2, 12053.	10.3	82
50	Hierarchical Porous Carbon Spheres for Highâ€Performance Naâ€“O₂ Batteries. Advanced Materials, 2017, 29, 1606816.	21.0	81
51	Biochar-based fertilizer: Supercharging root membrane potential and biomass yield of rice. Science of the Total Environment, 2020, 713, 136431.	8.0	78
52	Contact damage evolution in a diamond-like carbon (DLC) coating on a stainless steel substrate. Thin Solid Films, 2007, 515, 3196-3201.	1.8	77
53	Influences of Biochar and Biochar-Mineral Complex on Mycorrhizal Colonisation and Nutrition of Wheat and Sorghum. Pedosphere, 2015, 25, 686-695.	4.0	76
54	Terra Preta Australis: Reassessing the carbon storage capacity of temperate soils. Agriculture, Ecosystems and Environment, 2011, 140, 137-147.	5.3	75

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55	Doping effect of nano-diamond on superconductivity and flux pinning in MgB2. Superconductor Science and Technology, 2003, 16, 1182-1186.	3.5	74
56	Characterization of an enriched biochar. Journal of Analytical and Applied Pyrolysis, 2014, 108, 26-34.	5.5	74
57	Feeding Biochar to Cows: An Innovative Solution for Improving Soil Fertility and Farm Productivity. Pedosphere, 2015, 25, 666-679.	4.0	74
58	Corrosion behavior of a ZrCN coated Ti alloy with potential application as a bipolar plate for proton exchange membrane fuel cell. Journal of Alloys and Compounds, 2016, 663, 718-730.	5.5	72
59	Improving flux pinning of MgB2by carbon nanotube doping and ultrasonication. Superconductor Science and Technology, 2006, 19, L5-L8.	3.5	71
60	Formation and growth of nanoindentation-induced high pressure phases in crystalline and amorphous silicon. Journal of Applied Physics, 2007, 102, .	2.5	71
61	Mechanical and corrosion-resistant properties of Tiâ€“Nbâ€“Siâ€“N nanocomposite films prepared by a double glow discharge plasma technique. Ceramics International, 2014, 40, 8621-8630.	4.8	71
62	Nanoindentation-induced deformation of Ge. Applied Physics Letters, 2002, 80, 2651-2653.	3.3	70
63	Nanoindentation of hard multilayer coatings: Finite element modelling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 1111-1116.	5.6	69
64	Mechanical properties of ZnO epitaxial layers grown on a- and c-axis sapphire. Applied Physics Letters, 2005, 86, 203105.	3.3	68
65	Room temperature deformation behavior of multiphase Niî—¸20at.%Alî—¸30at.%Fe and its constituent phases. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 131, 27-37.	5.6	63
66	Observation of ã€˜001ã€‰ dislocations and a mechanism for transgranular fracture on {001} in FeAl. Acta Metallurgica Et Materialia, 1991, 39, 1011-1017.	1.8	62
67	Metal Dusting of Feâ€“Cr and Feâ€“Niâ€“Cr Alloys Under Cyclic Conditions. Oxidation of Metals, 2002, 58, 1-21.	2.1	62
68	Improved irreversibility behavior and critical current density in MgB2-diamond nanocomposites. Applied Physics Letters, 2003, 83, 2916-2918.	3.3	62
69	Chemical and structural analysis of enhanced biochars: Thermally treated mixtures of biochar, chicken litter, clay and minerals. Chemosphere, 2013, 91, 35-40.	8.2	61
70	Lowering N2O emissions from soils using eucalypt biochar: the importance of redox reactions. Scientific Reports, 2015, 5, 16773.	3.3	61
71	FeMnNiCoCr-based high entropy alloy coatings: Effect of nitrogen additions on microstructural development, mechanical properties and tribological performance. Applied Surface Science, 2020, 507, 145101.	6.1	61
72	Phase transformations induced by spherical indentation in ion-implanted amorphous silicon. Journal of Applied Physics, 2006, 100, 013520.	2.5	60

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73	Scratch adhesion and tribological behaviour of graded Cr/CrN/CrTiN coatings synthesized by closed-field unbalanced magnetron sputtering. Wear, 2017, 380-381, 163-175.	3.1	60
74	Significant enhancement of flux pinning in MgB2 superconductor through nano-Si addition. Physica C: Superconductivity and Its Applications, 2003, 385, 461-465.	1.2	59
75	Alignment of Carbon Nanotube Additives for Improved Performance of Magnesium Diboride Superconductors. Advanced Materials, 2006, 18, 785-788.	21.0	59
76	On the critical parameters that regulate the deformation behaviour of tooth enamel. Biomaterials, 2008, 29, 2697-2703.	11.4	58
77	Direct Evidence for Cation Nonâ€Stoichiometry and Cottrell Atmospheres Around Dislocation Cores in Functional Oxide Interfaces. Advanced Materials, 2010, 22, 2430-2434.	21.0	58
78	Developing More Effective Enhanced Biochar Fertilisers for Improvement of Pepper Yield and Quality. Pedosphere, 2015, 25, 703-712.	4.0	58
79	Transport critical current density in Fe-sheathed nano-SiC doped MgB/sub 2/ wires. IEEE Transactions on Applied Superconductivity, 2003, 13, 3199-3202.	1.7	57
80	Deformation mechanisms operating during nanoindentation of TiN coatings on steel substrates. Surface and Coatings Technology, 2005, 192, 11-18.	4.8	57
81	Effect of microstructure upon elastic behaviour of human tooth enamel. Journal of Biomechanics, 2009, 42, 1075-1080.	2.1	57
82	Accelerated precipitation in the AFA stainless steel Feâ€“20Crâ€“30Niâ€“2Nbâ€“5Al via cold working. Intermetallics, 2014, 53, 120-128.	3.9	57
83	Magnetic properties in Î±-MnO2 doped with alkaline elements. Scientific Reports, 2015, 5, 9094.	3.3	57
84	Unraveling the catalytic activities of ruthenium nanocrystals in high performance aprotic Liâ€“O2 batteries. Nano Energy, 2016, 28, 486-494.	16.0	56
85	Relationship between damage and hardness profiles in ion irradiated SS316 using nanoindentation â€“ Experiments and modelling. International Journal of Plasticity, 2016, 86, 151-169.	8.8	56
86	Study of the effects of surface chemistry on splat formation for plasma sprayed NiCr onto stainless steel substrates. Surface and Coatings Technology, 2010, 204, 1599-1607.	4.8	55
87	Corrosion and wear behaviours of a reactive-sputter-deposited Ta 2 O 5 nanoceramic coating. Applied Surface Science, 2016, 368, 177-190.	6.1	55
88	In vitro biocompatibility of a nanocrystalline Î²-Ta2O5 coating for orthopaedic implants. Ceramics International, 2018, 44, 4660-4675.	4.8	54
89	Medium entropy alloy CoCrNi coatings: Enhancing hardness and damage-tolerance through a nanotwinned structuring. Surface and Coatings Technology, 2018, 335, 257-264.	4.8	52
90	Niobium addition enhancing the corrosion resistance of nanocrystalline Ti5Si3 coating in H2SO4 solution. Acta Materialia, 2014, 63, 245-260.	7.9	51

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91	Damage in IIIâ€“V Compounds during Focused Ion Beam Milling. Microscopy and Microanalysis, 2005, 11, 446-455.	0.4	50
92	Transmission electron microscope characterisation of molar-incisor-hypomineralisation. Journal of Materials Science: Materials in Medicine, 2008, 19, 3187-3192.	3.6	50
93	Phase field simulations of ferroelectrics domain structures in PbZrxTi1âˆ’xO3 bilayers. Acta Materialia, 2013, 61, 2909-2918.	7.9	50
94	Electrochemical Corrosion Behavior of Nanocrystalline Î²-Ta Coating for Biomedical Applications. ACS Biomaterials Science and Engineering, 2016, 2, 579-594.	5.2	50
95	Enhancement of in-field Jc in MgB2â•Fe wire using single- and multiwalled carbon nanotubes. Applied Physics Letters, 2006, 89, 122510.	3.3	49
96	K₂Ti₂O₅@C Microspheres with Enhanced K⁺ Intercalation Pseudocapacitance Ensuring Fast Potassium Storage and Longâ€Term Cycling Stability. Small, 2020, 16, e1906131.	10.0	49
97	The microstructure of extruded Fe-Al. Journal of Materials Science, 1989, 24, 4246-4252.	3.7	48
98	Deformation and fracture of TiN and TiAlN coatings on a steel substrate during nanoindentation. Surface and Coatings Technology, 2006, 200, 3518-3526.	4.8	48
99	Characterization of organic compounds in biochars derived from municipal solid waste. Waste Management, 2017, 67, 131-142.	7.4	48
100	Comparison between nano-diamond and carbon nanotube doping effects on critical current density and flux pinning in MgB2. Superconductor Science and Technology, 2007, 20, 296-301.	3.5	47
101	Biochar as a Geoengineering Climate Solution: Hazard Identification and Risk Management. Critical Reviews in Environmental Science and Technology, 2012, 42, 225-250.	12.8	47
102	Corrosion behaviour of nanocomposite TiSiN coatings on steel substrates. Corrosion Science, 2011, 53, 3678-3687.	6.6	46
103	Effects of environment on the sliding tribological behaviors of Zr-based bulk metallic glass. Intermetallics, 2012, 25, 115-125.	3.9	46
104	Enhancing toughness of CrN coatings by Ni addition for safety-critical applications. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 596, 264-274.	5.6	46
105	Phosphorus adsorption onto an enriched biochar substrate in constructed wetlands treating wastewater. Ecological Engineering: X, 2019, 142, 100005.	3.5	46
106	Biochar increases soil organic carbon, avocado yields and economic return over 4Âyears of cultivation. Science of the Total Environment, 2020, 724, 138153.	8.0	46
107	Redeposition effects in transmission electron microscope specimens of FeAlâ€“WC composites prepared using a focused ion beam. Micron, 2003, 34, 97-107.	2.2	45
108	A new high-strength spinodal alloy. Journal of Materials Research, 2005, 20, 791-795.	2.6	45

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109	A reactive-sputter-deposited TiSiN nanocomposite coating for the protection of metallic bipolar plates in proton exchange membrane fuel cells. Ceramics International, 2020, 46, 2743-2757.	4.8	45
110	Improving Intermetallic Ductility and Toughness. Jom, 1988, 40, 28-31.	1.9	44
111	Tribological studies of a Zr-based bulk metallic glass. Intermetallics, 2013, 35, 25-32.	3.9	44
112	Phase transformations induced in relaxed amorphous silicon by indentation at room temperature. Applied Physics Letters, 2004, 85, 5559-5561.	3.3	43
113	The application of focused ion beam technology to the characterization of coatings. Surface and Coatings Technology, 2005, 198, 165-168.	4.8	43
114	Effect of amendment of biochar supplemented with Si on Cd mobility and rice uptake over three rice growing seasons in an acidic Cd-tainted paddy from central South China. Science of the Total Environment, 2020, 709, 136101.	8.0	43
115	Unraveling dual phase transformations in a CrCoNi medium-entropy alloy. Acta Materialia, 2021, 215, 117112.	7.9	43
116	Remarkable cavitation erosionâ€“corrosion resistance of CoCrFeNiTiMo high-entropy alloy coatings. Corrosion Science, 2021, 190, 109663.	6.6	43
117	Microprocesses in nickel accompanying metal dusting. Acta Materialia, 2008, 56, 68-77.	7.9	42
118	Giant pop-ins and amorphization in germanium during indentation. Journal of Applied Physics, 2007, 101, 043524.	2.5	41
119	Microstructural response of TiN monolithic and multilayer coatings during microscratch testing. Journal of Materials Research, 2007, 22, 2312-2318.	2.6	41
120	Focused Ion beam implantation of diamond. Diamond and Related Materials, 2011, 20, 1125-1128.	3.9	41
121	Investigation of the structure of damage layers in TEM samples prepared using a focused ion beam. Journal of Materials Science Letters, 2001, 20, 1181-1183.	0.5	40
122	Thermal-strain-induced enhancement of electromagnetic properties of SiCâ€“MgB2 composites. Applied Physics Letters, 2009, 94, 042510.	3.3	40
123	Effects of TiN sublayers on the response of TiSiN nanocomposite coatings to nanoidentation and scratching contacts. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 4447-4457.	5.6	40
124	Extremely hard, damage-tolerant ceramic coatings with functionally graded, periodically varying architecture. Acta Materialia, 2013, 61, 193-204.	7.9	40
125	Immobilization of heavy metals in contaminated soil after mining activity by using biochar and other industrial by-products: the significant role of minerals on the biochar surfaces. Environmental Technology (United Kingdom), 2019, 40, 3200-3215.	2.2	40
126	Reactive-sputter-deposited Î²-Ta 2 O 5 and TaON nanoceramic coatings on Tiâ€“6Alâ€“4V alloy against wear and corrosion damage. Surface and Coatings Technology, 2016, 296, 171-184.	4.8	39

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127	Room temperature tensile ductility in polycrystalline B2 Ni-30Al-20Fe. Scripta Metallurgica, 1989, 23, 897-900.	1.2	38
128	The effect of the gold sputter-coated films in minimising damage in FIB-produced TEM specimens. Materials Letters, 2003, 57, 2238-2241.	2.6	38
129	Transmission electron microscopy of TiN and TiAlN thin films using specimens prepared by focused ion beam milling. Surface and Coatings Technology, 2004, 183, 239-246.	4.8	38
130	Effect of coating thickness on the deformation mechanisms in PVD TiN-coated steel. Surface and Coatings Technology, 2010, 204, 1764-1773.	4.8	38
131	The effect of ternary additions on the vacancy hardening of FeAl. Scripta Metallurgica Et Materialia, 1994, 30, 1079-1083.	1.0	37
132	Effect of Substrate Hardness on Splat Morphology in High-Velocity Thermal Spray Coatings. Journal of Thermal Spray Technology, 2006, 15, 663-669.	3.1	37
133	Study of the microstructure of NiCr splats plasma sprayed on to stainless steel substrates by TEM. Surface and Coatings Technology, 2010, 204, 1608-1615.	4.8	37
134	Promoting bone-like apatite formation on titanium alloys through nanocrystalline tantalum nitride coatings. Journal of Materials Chemistry B, 2015, 3, 4082-4094.	5.8	37
135	A nanocrystalline zirconium carbide coating as a functional corrosion-resistant barrier for polymer electrolyte membrane fuel cell application. Journal of Power Sources, 2015, 297, 359-369.	7.8	37
136	Giant pop-ins in nanoindented silicon and germanium caused by lateral cracking. Journal of Materials Research, 2008, 23, 297-301.	2.6	36
137	Factors governing the mechanical behaviour of CrSiN coatings: Combined nanoindentation testing and transmission electron microscopy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 534, 297-308.	5.6	36
138	Pyrolysis of attapulgite clay blended with yak dung enhances pasture growth and soil health: Characterization and initial field trials. Science of the Total Environment, 2017, 607-608, 184-194.	8.0	36
139	Crop-season and residual effects of sequentially applied mineral enhanced biochar and N fertiliser on crop yield, soil chemistry and microbial communities. Agriculture, Ecosystems and Environment, 2018, 255, 52-61.	5.3	36
140	The effect of ternary additions on vacancy hardening in near stoichiometric FeAl. Intermetallics, 1996, 4, 403-415.	3.9	35
141	Deformation and fracture of Tiâ€“Siâ€“N nanocomposite films. Thin Solid Films, 2005, 479, 193-200.	1.8	35
142	A ZrN nanocrystalline coating for polymer electrolyte membrane fuel cell metallic bipolar plates prepared by reactive sputter deposition. RSC Advances, 2015, 5, 67348-67356.	3.6	35
143	Structure and mechanical properties of graded Cr/CrN/CrTiN coatings synthesized by close field unbalanced magnetron sputtering. Surface and Coatings Technology, 2017, 309, 779-789.	4.8	35
144	High temperature stabilization of a nanostructured Cu-Y2O3 composite through microalloying with Ti. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 712, 80-87.	5.6	35

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145	Structural characterization of pressure-induced amorphous silicon. Physical Review B, 2009, 79, .	3.2	34
146	Rate-dependent phase transformations in nanoindented germanium. Journal of Applied Physics, 2009, 105, .	2.5	34
147	Study of the splat formation for plasma sprayed NiCr on aluminum substrate as a function of substrate condition. Surface and Coatings Technology, 2010, 204, 2647-2656.	4.8	34
148	Control of the damage resistance of nanocomposite TiSiN coatings on steels: Roles of residual stress. Thin Solid Films, 2011, 519, 5007-5012.	1.8	34
149	Migration of dissolved organic carbon in biochars and biochar-mineral complexes. Pesquisa Agropecuaria Brasileira, 2012, 47, 677-686.	0.9	34
150	Chemical bonding states and solar selective characteristics of unbalanced magnetron sputtered Ti_xM_{1â^'xâ^'y}N_y films. RSC Advances, 2016, 6, 36373-36383.	3.6	34
151	Contact damage evolution in diamondlike carbon coatings on ductile substrates. Journal of Materials Research, 2008, 23, 27-36.	2.6	33
152	Electrochemical noise analysis of cavitation erosion corrosion resistance of NbC nanocrystalline coating in a 3.5Âwt% NaCl solution. Surface and Coatings Technology, 2021, 415, 127133.	4.8	33
153	Transmission Electron Microscope Specimen Preparation of Metal Matrix Composites Using the Focused Ion Beam Miller. Microscopy and Microanalysis, 2000, 6, 452-462.	0.4	32
154	Deformation of a hard coating on ductile substrate system during nanoindentation: Role of the coating microstructure. Journal of Materials Research, 2006, 21, 437-447.	2.6	32
155	Fabrication, Raman spectra and ferromagnetic properties of the transition metal doped ZnO nanocrystals. Journal Physics D: Applied Physics, 2007, 40, 6518-6521.	2.8	32
156	Coherent super-resolution microscopy via laterally structured illumination. Micron, 2007, 38, 150-157.	2.2	32
157	The roles of passive layers in regulating the electrochemical behavior of Ti₅Si₃-based nanocomposite films. Journal of Materials Chemistry A, 2013, 1, 2064-2078.	10.3	32
158	Roles of compressive residual stress in enhancing the corrosion resistance of nano nitride composite coatings on steel. Journal of Asian Ceramic Societies, 2013, 1, 86-94.	2.3	32
159	TiN versus TiSiN coatings in indentation, scratch and wear setting. Applied Surface Science, 2021, 563, 150356.	6.1	32
160	Effect of substrate roughness on the contact damage of DLC coatings. Diamond and Related Materials, 2008, 17, 975-979.	3.9	31
161	Understanding the Formation of Iron Oxide Nanoparticles with Acicular Structure from Iron(III) Chloride and Hydrazine Monohydrate. Crystal Growth and Design, 2011, 11, 1689-1696.	3.0	31
162	Role of microstructure in the grinding and polishing of Î±-sialon ceramics. Journal of the European Ceramic Society, 2003, 23, 2351-2360.	5.7	30

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163	Recrystallization kinetics and final grain size in a cold rolled particulate reinforced Al-based MMC. Composites Part A: Applied Science and Manufacturing, 2004, 35, 1017-1025.	7.6	30
164	Evidence of Substrate Melting of NiCr Particles on Stainless Steel Substrate by Experimental Observation and Simulations. Plasma Chemistry and Plasma Processing, 2009, 29, 475-495.	2.4	30
165	Misfit strain driven cation inter-diffusion across an epitaxial multiferroic thin film interface. Journal of Applied Physics, 2014, 115, .	2.5	30
166	Mechanically robust TiAlSiN coatings prepared by pulsed-DC magnetron sputtering system: Scratch response and tribological performance. Thin Solid Films, 2018, 645, 222-230.	1.8	30
167	Wheat straw vinegar: A more cost-effective solution than chemical fungicides for sustainable wheat plant protection. Science of the Total Environment, 2020, 725, 138359.	8.0	30
168	Unraveling the electronic structure, mechanical and physical properties of Ag alloyed $$alpha $$-$$hbox {Ta}_{mathbf {5}}hbox {Si}_{mathbf {3}}$$ via first-principles calculations. European Physical Journal B, 2021, 94, 1.	1.5	30
169	Correlation between electrical resistance and microstructure in gold wirebonds on aluminum films. IEEE Transactions on Components, Hybrids and Manufacturing Technology, 1990, 13, 592-595.	0.4	29
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