

Paul R Munroe

List of Publications by Year in descending order

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424
papers

17,048
citations

16451

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26613

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426
all docs

426
docs citations

426
times ranked

16475
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Ni content on the microstructure and mechanical properties of TiNiN coatings. Applied Surface Science, 2022, 573, 151536.	6.1	9
2	Unlocking the cavitation erosion-corrosion resistance of a TiCN nanocrystalline coating with an equiaxed grain structure. Corrosion Science, 2022, 195, 109978.	6.6	8
3	Nanocrystalline TaCN coated titanium bipolar plate dedicated to proton exchange membrane fuel cell. Ceramics International, 2022, 48, 19217-19231.	4.8	10
4	Biochar-based fertiliser enhances nutrient uptake and transport in rice seedlings. Science of the Total Environment, 2022, 826, 154174.	8.0	13
5	The influence of substrate bias on the surface morphology, microstructure and mechanical behaviour of TiNiN coatings. Applied Surface Science, 2022, 590, 153107.	6.1	8
6	A comparison between the characteristics of a biochar-NPK granule and a commercial NPK granule for application in the soil. Science of the Total Environment, 2022, 832, 155021.	8.0	5
7	Dissecting Anticorrosion and Antimicrobial Potency of an Ag Nanoparticle/NbC Nanocomposite Coating in a Marine Environment Containing Sulfate-Reducing Bacteria. ACS ES&T Engineering, 2022, 2, 1386-1402.	7.6	4
8	Enhancing the hardness and damage-tolerance of CoCrNiAlTi coatings through dual-phase and nanotwinned structures. Surface and Coatings Technology, 2022, 440, 128479.	4.8	2
9	Overall benefits of biochar, fed to dairy cows, for the farming system. Pedosphere, 2022, , .	4.0	0
10	Tailoring the scratch adhesion strength and wear performance of TiNiN nanocomposite coatings by optimising substrate bias voltage during cathodic arc evaporation. Surface and Coatings Technology, 2022, 445, 128707.	4.8	4
11	Size-dependent deformation behavior of dual-phase, nanostructured CrCoNi medium-entropy alloy. Science China Materials, 2021, 64, 209-222.	6.3	20
12	Harmonizing mechanical responses of nanostructured CrN coatings via Ni additions. Applied Surface Science, 2021, 538, 147987.	6.1	18
13	Achieving an exceptional ductility at room temperature in a low SFE copper alloy fabricated by severe plastic deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 802, 140654.	5.6	6
14	Enhancing the adhesion strength and wear resistance of nanostructured NiCrN coatings. Applied Surface Science, 2021, 541, 148533.	6.1	27
15	The influence of semiconducting properties of passive films on the cavitation erosion resistance of a NbN nanoceramic coating. Ultrasonics Sonochemistry, 2021, 71, 105406.	8.2	18
16	Advanced characterization of biomineralization at plaque layer and inside rice roots amended with iron- and silica-enhanced biochar. Scientific Reports, 2021, 11, 159.	3.3	7
17	Investigating the cadmium adsorption capacities of crop straw biochars produced using various feedstocks and pyrolysis temperatures. Environmental Science and Pollution Research, 2021, 28, 21516-21527.	5.3	6
18	Phosphorus and Oxygen Dual-doped Porous Carbon Spheres with Enhanced Reaction Kinetics as Anode Materials for High-performance Potassium-ion Hybrid Capacitors. Advanced Functional Materials, 2021, 31, 2102060.	14.9	96

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19	Fertilizing behavior of extract of organomineral-activated biochar: low-dose foliar application for promoting lettuce growth. <i>Chemical and Biological Technologies in Agriculture</i> , 2021, 8, .	4.6	9
20	Electrochemical noise analysis of cavitation erosion corrosion resistance of NbC nanocrystalline coating in a 3.5Åwt% NaCl solution. <i>Surface and Coatings Technology</i> , 2021, 415, 127133.	4.8	33
21	Unraveling dual phase transformations in a CrCoNi medium-entropy alloy. <i>Acta Materialia</i> , 2021, 215, 117112.	7.9	43
22	Corrosion-resistant, electrically conductive TiCN coatings for direct methanol fuel cell. <i>Surface and Coatings Technology</i> , 2021, 422, 127562.	4.8	10
23	Remarkable cavitation erosionâ€“corrosion resistance of CoCrFeNiTiMo high-entropy alloy coatings. <i>Corrosion Science</i> , 2021, 190, 109663.	6.6	43
24	TiN versus TiSiN coatings in indentation, scratch and wear setting. <i>Applied Surface Science</i> , 2021, 563, 150356.	6.1	32
25	Influence of substrate bias on the scratch, wear and indentation response of TiSiN nanocomposite coatings. <i>Surface and Coatings Technology</i> , 2021, 425, 127687.	4.8	22
26	Effects of iron-modified biochar with S-rich and Si-rich feedstocks on Cd immobilization in the soil-rice system. <i>Ecotoxicology and Environmental Safety</i> , 2021, 225, 112764.	6.0	17
27	Remarkable bactericidal traits of a metal-ceramic composite coating elated by hierarchically structured surface. <i>IScience</i> , 2021, 24, 101942.	4.1	5
28	Remarkable toughness of a nanostructured medium-entropy nitride compound. <i>Nanoscale</i> , 2021, 13, 15074-15084.	5.6	10
29	Development of high entropy alloys in Australia: a review. <i>Australian Journal of Mechanical Engineering</i> , 2021, 19, 692-698.	2.1	1
30	Unraveling the electronic structure, mechanical and physical properties of Ag alloyed α - Ta_5Si_3 via first-principles calculations. <i>European Physical Journal B</i> , 2021, 94, 1.	1.5	30
31	Biochar bound urea boosts plant growth and reduces nitrogen leaching. <i>Science of the Total Environment</i> , 2020, 701, 134424.	8.0	137
32	Scratch and wear resistance of hydrophobic CeO _{2-x} coatings synthesized by reactive magnetron sputtering. <i>Ceramics International</i> , 2020, 46, 89-97.	4.8	8
33	Influence of Ag alloying on the antibacterial properties, bio-corrosion resistance and biocompatibility of α -Nb ₅ Si ₃ nanocrystalline coating. <i>Applied Surface Science</i> , 2020, 503, 144082.	6.1	9
34	A reactive-sputter-deposited TiSiN nanocomposite coating for the protection of metallic bipolar plates in proton exchange membrane fuel cells. <i>Ceramics International</i> , 2020, 46, 2743-2757.	4.8	45
35	K ₂ Ti ₂ O ₅ @C Microspheres with Enhanced K ⁺ Intercalation Pseudocapacitance Ensuring Fast Potassium Storage and Longâ€“Term Cycling Stability. <i>Small</i> , 2020, 16, e1906131.	10.0	49
36	FeMnNiCoCr-based high entropy alloy coatings: Effect of nitrogen additions on microstructural development, mechanical properties and tribological performance. <i>Applied Surface Science</i> , 2020, 507, 145101.	6.1	61

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37	Biochar-based fertilizer: Supercharging root membrane potential and biomass yield of rice. <i>Science of the Total Environment</i> , 2020, 713, 136431.	8.0	78
38	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. <i>Science of the Total Environment</i> , 2020, 709, 136101.	8.0	43
39	The effect of Zn/Ca ratio on the microstructure, texture and mechanical properties of dilute Mg ⁹² Zn ⁶ Ca ² Mn alloys that exhibit superior strength. <i>Journal of Materials Science</i> , 2020, 55, 3588-3604.	3.7	22
40	Insights into the antimicrobial mechanism of Ag and I incorporated ZnO nanoparticle derivatives under visible light. <i>Materials Science and Engineering C</i> , 2020, 107, 110220.	7.3	21
41	Advanced RuO ₂ Thin Films for pH Sensing Application. <i>Sensors</i> , 2020, 20, 6432.	3.8	6
42	Microstructure and mechanical properties of TiC nanoparticle-reinforced Mg ⁹² Zn ⁶ Ca matrix nanocomposites processed by combining multidirectional forging and extrusion. <i>Transactions of Nonferrous Metals Society of China</i> , 2020, 30, 2394-2412.	4.2	13
43	Microstructural Characterization of HVOF-Sprayed Ni on Polished and Oxidized Stainless Steel Substrates. <i>Journal of Thermal Spray Technology</i> , 2020, 29, 1093-1110.	3.1	10
44	Microstructure, Tensile Properties and Work Hardening Behavior of an Extruded Mg ⁹² Zn ⁶ Ca ² Mn Magnesium Alloy. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020, 33, 922-936.	2.9	13
45	Biochar increases soil organic carbon, avocado yields and economic return over 4 years of cultivation. <i>Science of the Total Environment</i> , 2020, 724, 138153.	8.0	46
46	High entropy alloy FeMnNiCoCr coatings: Enhanced hardness and damage-tolerance through a dual-phase structure and nanotwins. <i>Surface and Coatings Technology</i> , 2020, 385, 125435.	4.8	24
47	Wheat straw vinegar: A more cost-effective solution than chemical fungicides for sustainable wheat plant protection. <i>Science of the Total Environment</i> , 2020, 725, 138359.	8.0	30
48	Deterministic Ferroelastic Domain Switching Using Ferroelectric Bilayers. <i>Nano Letters</i> , 2019, 19, 5319-5326.	9.1	15
49	Effect of Al alloying on cavitation erosion behavior of TaSi ₂ nanocrystalline coatings. <i>Ultrasonics Sonochemistry</i> , 2019, 59, 104742.	8.2	26
50	Sandwich-structured, damage-resistant TiN/graded TiSiN/TiSiN film. <i>Results in Physics</i> , 2019, 12, 543-554.	4.1	15
51	Construction of Hierarchical K _{0.39} Mn ₃ O ₆ Spheres via AlF ₃ Coating for High-Performance Potassium-Ion Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1803757.	19.5	83
52	Nanostructured molybdenum nitride-based coatings: Effect of nitrogen concentration on microstructure and mechanical properties. <i>Thin Solid Films</i> , 2019, 682, 82-92.	1.8	15
53	Phosphorus adsorption onto an enriched biochar substrate in constructed wetlands treating wastewater. <i>Ecological Engineering: X</i> , 2019, 142, 100005.	3.5	46
54	Scratch response and tribological behaviour of CrAlNiN coatings deposited by closed field unbalanced magnetron sputtering system. <i>Surface and Coatings Technology</i> , 2019, 367, 30-40.	4.8	11

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55	Erosion and corrosion resistance of a Ta_2O_5 nanocrystalline coating in two-phase fluid impingement environments. <i>Materials Science and Technology</i> , 2019, 35, 925-938.	1.6	4
56	Oblique cross-section nanoindentation for determining the hardness change in ion-irradiated steel. <i>International Journal of Plasticity</i> , 2019, 112, 242-256.	8.8	29
57	Enhancing the cavitation erosion resistance of D8m-Ta5Si3 nanocrystalline coatings through Al alloying. <i>Ultrasonics Sonochemistry</i> , 2019, 50, 138-156.	8.2	11
58	Effect of Ni content on the microstructure and mechanical behaviour of CrAlNiN coatings deposited by closed field unbalanced magnetron sputtering. <i>Surface and Coatings Technology</i> , 2019, 357, 445-455.	4.8	14
59	CrAg coatings: synthesis, microstructure and antimicrobial properties. <i>Surface Engineering</i> , 2019, 35, 596-603.	2.2	4
60	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. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 3200-3215.	2.2	40
61	Antimicrobial and biocorrosion-resistant $\text{MoO}_3\text{-SiO}_2$ nanocomposite coating prepared by double cathode glow discharge technique. <i>Applied Surface Science</i> , 2018, 447, 500-511.	6.1	24
62	Study of the structure, properties, scratch resistance and deformation behaviour of graded Cr-CrN-Cr(1-x)AlxN coatings. <i>Ceramics International</i> , 2018, 44, 11364-11373.	4.8	22
63	Wear behavior of graded Cr-CrN-Cr(1-x)Al(x)N coatings synthesized by closed-field unbalanced magnetron sputtering for advanced machining operations. <i>Ceramics International</i> , 2018, 44, 7723-7733.	4.8	9
64	Mixed-phase bismuth ferrite thin films by chemical solution deposition. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2882-2888.	5.5	11
65	The mechanisms and consequences of inorganic reactions during the production of ferrous sulphate enriched bamboo biochars. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 131, 101-112.	5.5	11
66	In vitro biocompatibility of a nanocrystalline Ta_2O_5 coating for orthopaedic implants. <i>Ceramics International</i> , 2018, 44, 4660-4675.	4.8	54
67	Crop-season and residual effects of sequentially applied mineral enhanced biochar and N fertiliser on crop yield, soil chemistry and microbial communities. <i>Agriculture, Ecosystems and Environment</i> , 2018, 255, 52-61.	5.3	36
68	Effect of extrusion temperature on microstructure and properties of an ultrafine-grained Cu matrix nanocomposite fabricated by powder compact extrusion. <i>Journal of Materials Science</i> , 2018, 53, 5389-5401.	3.7	19
69	Three-dimensional pie-like current collectors for dendrite-free lithium metal anodes. <i>Energy Storage Materials</i> , 2018, 11, 127-133.	18.0	124
70	INFLUENCE OF FLUORIDE ION CONCENTRATIONS ON THE CORROSION BEHAVIOR OF Ta_2O_5 NANOCRYSTALLINE COATING FOR DENTAL IMPLANT APPLICATIONS. <i>Surface Review and Letters</i> , 2018, 25, 1850083.	1.1	3
71	Powder processing and characterisation of a quinary Ni-Mn-Co-Sn-Cu Heusler alloy. <i>Powder Technology</i> , 2018, 324, 69-75.	4.2	7
72	Mechanically robust TiAlSiN coatings prepared by pulsed-DC magnetron sputtering system: Scratch response and tribological performance. <i>Thin Solid Films</i> , 2018, 645, 222-230.	1.8	30

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73	High temperature stabilization of a nanostructured Cu-Y ₂ O ₃ composite through microalloying with Ti. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 712, 80-87.	5.6	35
74	Medium entropy alloy CoCrNi coatings: Enhancing hardness and damage-tolerance through a nanotwinned structuring. <i>Surface and Coatings Technology</i> , 2018, 335, 257-264.	4.8	52
75	A comparison between the characteristics of single- and mixed-feedstock biochars generated from wheat straw and basalt. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 129, 123-133.	5.5	24
76	Microstructural and associated chemical changes during the composting of a high temperature biochar: Mechanisms for nitrate, phosphate and other nutrient retention and release. <i>Science of the Total Environment</i> , 2018, 618, 1210-1223.	8.0	163
77	Understanding structural evolution of nanostructured Cu-Al ₂ O ₃ composite powders during thermomechanical processing. <i>Materialia</i> , 2018, 4, 268-275.	2.7	9
78	Comparative Study of Two Nanoindentation Approaches for Assessing Mechanical Properties of Ion-Irradiated Stainless Steel 316. <i>Metals</i> , 2018, 8, 719.	2.3	9
79	Effect of clay and iron sulphate on volatile and water-extractable organic compounds in bamboo biochars. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 133, 22-29.	5.5	12
80	Dendrite-free Sodium-metal Anodes for High-energy Sodium-metal Batteries. <i>Advanced Materials</i> , 2018, 30, e1801334.	21.0	267
81	Structure and properties of hydrophobic CeO ₂ ·x coatings synthesized by reactive magnetron sputtering for biomedical applications. <i>Surface and Coatings Technology</i> , 2018, 349, 667-676.	4.8	25
82	Designer defect stabilization of the super tetragonal phase in >70-nm-thick BiFeO ₃ films on LaAlO ₃ substrates. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 0902B2.	1.5	16
83	Microstructure and mechanical properties of a multilayered CoCrNi/Ti coating with varying crystal structure. <i>Surface and Coatings Technology</i> , 2018, 350, 596-602.	4.8	20
84	Mechanical and electrochemical properties of Al alloyed D ₈ m-Ta ₅ Si ₃ nanocrystalline coatings. <i>Journal of Alloys and Compounds</i> , 2018, 749, 406-423.	5.5	6
85	Hierarchical nanostructure of CrCoNi film underlying its remarkable mechanical strength. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	14
86	Mechanical and electrochemical properties of a sputter-deposited $\hat{1}^2$ -Ta ₅ Si ₃ nanocrystalline coating. <i>Journal of Alloys and Compounds</i> , 2017, 699, 1068-1083.	5.5	14
87	Chemolithotrophic processes in the bacterial communities on the surface of mineral-enriched biochars. <i>ISME Journal</i> , 2017, 11, 1087-1101.	9.8	121
88	The influence of Ti additions on the mechanical and electrochemical behavior of $\hat{1}^2$ -Ta ₅ Si ₃ nanocrystalline coating. <i>Applied Surface Science</i> , 2017, 419, 901-915.	6.1	14
89	Characterization of organic compounds in biochars derived from municipal solid waste. <i>Waste Management</i> , 2017, 67, 131-142.	7.4	48
90	Hierarchical Porous Carbon Spheres for High-performance Na ⁺ O ₂ Batteries. <i>Advanced Materials</i> , 2017, 29, 1606816.	21.0	81

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91	Suppressing Al ₂ O ₃ nanoparticle coarsening and Cu nanograin growth of milled nanostructured Cu-5vol.%Al ₂ O ₃ composite powder particles by doping with Ti. <i>Journal of Materials Science and Technology</i> , 2017, 33, 1323-1328.	10.7	16
92	An insight into the strain rate dependence of tensile ductility of an ultrafine grained Cu matrix nanocomposite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 688, 164-168.	5.6	7
93	Scratch adhesion and tribological behaviour of graded Cr/CrN/CrTiN coatings synthesized by closed-field unbalanced magnetron sputtering. <i>Wear</i> , 2017, 380-381, 163-175.	3.1	60
94	Nanoporosity improves the damage tolerance of nanostructured tantalum nitride coatings. <i>Scripta Materialia</i> , 2017, 133, 86-91.	5.2	13
95	Magnetic and Magnetodielectric Properties of Epitaxial Iron Vanadate Thin Films. <i>Advanced Electronic Materials</i> , 2017, 3, 1600295.	5.1	10
96	Influence of substrate bias on microstructural evolution and mechanical properties of TiAlSiN thin films deposited by pulsed-DC magnetron sputtering. <i>Thin Solid Films</i> , 2017, 639, 137-144.	1.8	24
97	Pyrolysis of attapulgite clay blended with yak dung enhances pasture growth and soil health: Characterization and initial field trials. <i>Science of the Total Environment</i> , 2017, 607-608, 184-194.	8.0	36
98	Structure and mechanical properties of graded Cr/CrN/CrTiN coatings synthesized by close field unbalanced magnetron sputtering. <i>Surface and Coatings Technology</i> , 2017, 309, 779-789.	4.8	35
99	The Effects of Al and Ti Additions on the Structural Stability, Mechanical and Electronic Properties of D8m-Structured Ta ₅ Si ₃ . <i>Metals</i> , 2016, 6, 127.	2.3	6
100	Characterization of organic compounds in a mixed feedstock biochar generated from Australian agricultural residues. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 120, 441-449.	5.5	25
101	Reactive-sputter-deposited Ti^{2+} -Ta ₂ O ₅ and TaON nanoceramic coatings on Ti-6Al-4V alloy against wear and corrosion damage. <i>Surface and Coatings Technology</i> , 2016, 296, 171-184.	4.8	39
102	Chemical bonding states and solar selective characteristics of unbalanced magnetron sputtered Ti _x M _{1-x} N _y films. <i>RSC Advances</i> , 2016, 6, 36373-36383.	3.6	34
103	The microstructure and mechanical properties of tantalum nitride coatings deposited by a plasma assisted bias sputtering deposition process. <i>Surface and Coatings Technology</i> , 2016, 307, 470-475.	4.8	21
104	Unraveling the catalytic activities of ruthenium nanocrystals in high performance aprotic Li-O ₂ batteries. <i>Nano Energy</i> , 2016, 28, 486-494.	16.0	56
105	The microstructure and mechanical properties of thin film Ni(Ti) nanocomposite coatings containing both oxygen and nitrogen. <i>Surface and Coatings Technology</i> , 2016, 304, 375-383.	4.8	4
106	Effects of pH value and temperature on the corrosion behavior of a Ta ₂ N nanoceramic coating in simulated polymer electrolyte membrane fuel cell environment. <i>Ceramics International</i> , 2016, 42, 16833-16851.	4.8	20
107	The Effect of Final Annealing Heating Rate on Abnormal Grain Growth in a Fe-3.5%Si Steel. <i>Materials Science Forum</i> , 2016, 879, 350-355.	0.3	0
108	Relationship between damage and hardness profiles in ion irradiated SS316 using nanoindentation experiments and modelling. <i>International Journal of Plasticity</i> , 2016, 86, 151-169.	8.8	56

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109	Reversible Polarization Rotation in Epitaxial Ferroelectric Bilayers. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600444.	3.7	11
110	Nanoscale Origins of Ferroelastic Domain Wall Mobility in Ferroelectric Multilayers. <i>ACS Nano</i> , 2016, 10, 10126-10134.	14.6	11
111	Martensitic Phase Transformation in a f.c.c./B2 FeNiMnAl Alloy. <i>Journal of Materials Science</i> , 2016, 51, 7831-7842.	3.7	7
112	Studies of Splat Formation of Copper and Copper Aluminium on Ceramic Substrate in Plasma Spray Process. <i>Journal of Thermal Spray Technology</i> , 2016, 25, 55-70.	3.1	6
113	Mineralâ€Biochar Composites: Molecular Structure and Porosity. <i>Environmental Science & Technology</i> , 2016, 50, 7706-7714.	10.0	148
114	Corrosion behavior of a ZrCN coated Ti alloy with potential application as a bipolar plate for proton exchange membrane fuel cell. <i>Journal of Alloys and Compounds</i> , 2016, 663, 718-730.	5.5	72
115	Corrosion and wear behaviours of a reactive-sputter-deposited Ta ₂ O ₅ nanoceramic coating. <i>Applied Surface Science</i> , 2016, 368, 177-190.	6.1	55
116	Variations in through-thickness recrystallization and grain growth textures in the Al layers in ARB-processed Al/Al(0.3% Sc) composite sheets. <i>Materials and Design</i> , 2016, 93, 467-473.	7.0	14
117	Microstructure and mechanical properties of a bulk ultrafine grained Alâ€7Siâ€0.3Mg alloy produced by thermomechanical consolidation of a nanocrystalline powder. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 658, 192-202.	5.6	13
118	Electrochemical Corrosion Behavior of Nanocrystalline Î²-Ta Coating for Biomedical Applications. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 579-594.	5.2	50
119	Electrochemical Properties of a Novel Î²-Ta ₂ O ₅ Nanoceramic Coating Exposed to Simulated Body Solutions. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 73-89.	5.2	26
120	Lowering N ₂ O emissions from soils using eucalypt biochar: the importance of redox reactions. <i>Scientific Reports</i> , 2015, 5, 16773.	3.3	61
121	Analysis of interfacial structure and chemistry in FeV ₂ O ₄ -based heterostructures on (001)-oriented SrTiO ₃ . <i>Journal of Physics: Conference Series</i> , 2015, 644, 012003.	0.4	0
122	The Electrochemical Properties of Biochars and How They Affect Soil Redox Properties and Processes. <i>Agronomy</i> , 2015, 5, 322-340.	3.0	122
123	Through Thickness Microstructural and Texture Inhomogeneity Within Al Layers in ARB-Produced Al-Al(Sc) Layered Composite Sheets. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 4772-4782.	2.2	13
124	Grain and nanoparticle coarsening of an ultrafine structured Cuâ€5vol.%Al ₂ O ₃ nanocomposite during isochronal annealing. <i>Journal of Alloys and Compounds</i> , 2015, 642, 83-91.	5.5	21
125	Epitaxial PbZr _x Ti _{1-x} O ₃ Ferroelectric Bilayers with Giant Electromechanical Properties. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500075.	3.7	13
126	Promoting bone-like apatite formation on titanium alloys through nanocrystalline tantalum nitride coatings. <i>Journal of Materials Chemistry B</i> , 2015, 3, 4082-4094.	5.8	37

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127	Magnetic properties in \pm -MnO ₂ doped with alkaline elements. Scientific Reports, 2015, 5, 9094.	3.3	57
128	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
129	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
130	Feeding Biochar to Cows: An Innovative Solution for Improving Soil Fertility and Farm Productivity. Pedosphere, 2015, 25, 666-679.	4.0	74
131	Influences of Biochar and Biochar-Mineral Complex on Mycorrhizal Colonisation and Nutrition of Wheat and Sorghum. Pedosphere, 2015, 25, 686-695.	4.0	76
132	Developing More Effective Enhanced Biochar Fertilisers for Improvement of Pepper Yield and Quality. Pedosphere, 2015, 25, 703-712.	4.0	58
133	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
134	Mapping strain modulated electronic structure perturbations in mixed phase bismuth ferrite thin films. Journal of Materials Chemistry C, 2015, 3, 1835-1845.	5.5	14
135	Oxidation resistance of Mo(Si _x Al _x) ₂ nanocrystalline films and characterization of their oxide scales by electrochemical impedance spectroscopy. RSC Advances, 2014, 4, 55696-55708.	3.6	5
136	Thermal stability of the nanostructure of mechanically milled Cu-5 vol% Al ₂ O ₃ nanocomposite powder particles. Journal of Materials Research, 2014, 29, 996-1005.	2.6	12
137	Phase transformation pathways in amorphous germanium under indentation pressure. Journal of Applied Physics, 2014, 115, 153502.	2.5	12
138	Uniting superhardness and damage-tolerance in a nanosandwich-structured Ti-B-N coating. Scripta Materialia, 2014, 74, 88-91.	5.2	16
139	Mechanical and corrosion-resistant properties of Ti-Nb-Si-N nanocomposite films prepared by a double glow discharge plasma technique. Ceramics International, 2014, 40, 8621-8630.	4.8	71
140	Porous Graphene Nanoarchitectures: An Efficient Catalyst for Low Charge-Overpotential, Long Life, and High Capacity Lithium-Oxygen Batteries. Nano Letters, 2014, 14, 3145-3152.	9.1	329
141	Microstructure, mechanical and electrochemical properties of in situ synthesized TiC reinforced Ti ₅ Si ₃ nanocomposite coatings on Ti-6Al-4V substrates. Electrochimica Acta, 2014, 115, 86-95.	5.2	27
142	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
143	Misfit strain driven cation inter-diffusion across an epitaxial multiferroic thin film interface. Journal of Applied Physics, 2014, 115, .	2.5	30
144	Microstructural characterization of white charcoal. Journal of Analytical and Applied Pyrolysis, 2014, 109, 215-221.	5.5	24

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145	Microstructure and mechanical properties of a Mo-toughened Mo ₃ Si-based in situ nanocomposite. Vacuum, 2014, 109, 112-119.	3.5	13
146	Size dependent elastic modulus and mechanical resilience of dental enamel. Journal of Biomechanics, 2014, 47, 1060-1066.	2.1	6
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