

# Russell Goodall

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

1,481  
citations

394421

19  
h-index

315739

38  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1812  
citing authors

#	ARTICLE	IF	CITATIONS
1	Successful prediction of the elastic properties of multiphase high entropy alloys in the AlTiVCr-Si system through a novel computational approach. <i>Materialia</i> , 2022, 21, 101365.	2.7	1
2	In-Situ Alloying of CoCrFeNiX High Entropy Alloys by Selective Laser Melting. <i>Metals</i> , 2022, 12, 456.	2.3	3
3	Theoretical critical metastability temperature to interpret phase formation in a lamellar-like-structured high entropy alloy. <i>Journal of Materials Research and Technology</i> , 2022, 18, 2519-2530.	5.8	1
4	Pairwise dilatational strain as a parametric model describing potential secondary phase formation and high-angle grain misorientation in as-cast high-entropy alloys. <i>Intermetallics</i> , 2022, 144, 107462.	3.9	0
5	Control of Ni-Ti phase structure, solid-state transformation temperatures and enthalpies via control of L-PBF process parameters. <i>Materials and Design</i> , 2022, 218, 110715.	7.0	15
6	Microstructure transformation and mechanical properties of Al alloy joints soldered with Ni-Cu foam/Sn-3.0Ag-0.5Cu (SAC305) composite solder. <i>Journal of Alloys and Compounds</i> , 2022, 922, 166135.	5.5	8
7	A new high entropy alloy brazing filler metal design for joining skutterudite thermoelectrics to copper. <i>Journal of Alloys and Compounds</i> , 2021, 858, 157750.	5.5	12
8	High Entropy Alloys as Filler Metals for Joining. <i>Entropy</i> , 2021, 23, 78.	2.2	19
9	Development of a Novel Ni-Based Multi-principal Element Alloy Filler Metal, Using an Alternative Melting Point Depressant. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021, 52, 2534-2548.	2.2	14
10	Dilatational strain biplots against enthalpy of mixing for predicting high-entropy alloys and complex concentrated alloys phase stability. <i>Materials Chemistry and Physics</i> , 2021, 262, 124241.	4.0	3
11	Improved Tribocorrosion Resistance by Addition of Sn to CrFeCoNi High Entropy Alloy. <i>Metals</i> , 2021, 11, 13.	2.3	11
12	Brazing filler metals. <i>International Materials Reviews</i> , 2020, 65, 257-285.	19.3	83
13	Diffusion reaction-induced microstructure and strength evolution of Cu joints bonded with Sn-based solder containing Ni-foam. <i>Materials Letters</i> , 2020, 281, 128642.	2.6	18
14	Refining As-Cast Structures of Novel SixTiVCrZr High-Entropy Alloys Using Estimated Effective Solidification Temperature Obtained Using Chvorinov's Rule. <i>Metals</i> , 2020, 10, 317.	2.3	2
15	Microstructure and mechanical properties of Cu joints soldered with a Sn-based composite solder, reinforced by metal foam. <i>Journal of Alloys and Compounds</i> , 2020, 845, 156240.	5.5	36
16	The corrosion behaviour of CoCrFeNi-x (x = Cu, Al, Sn) high entropy alloy systems in chloride solution. <i>Corrosion Science</i> , 2020, 172, 108740.	6.6	127
17	Electron spin mediated distortion in metallic systems. <i>Scripta Materialia</i> , 2020, 185, 159-164.	5.2	3
18	Material and magnetic properties of Sm <sub>2</sub> (Co, Fe, Cu, Zr) <sub>17</sub> permanent magnets processed by Spark Plasma Sintering. <i>Journal of Alloys and Compounds</i> , 2019, 770, 765-770.	5.5	8

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19	Data of the maximum solid solubility limits of binary systems of elements. Data in Brief, 2019, 26, 104515.	1.0	13
20	Incorporation of HA into porous titanium to form Ti-HA biocomposite foams. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 96, 193-203.	3.1	11
21	Production and Digital Image Correlation Analysis of Titanium Foams with Different Pore Morphologies as a Bone-Substitute Material. Advances in Materials Science and Engineering, 2019, 2019, 1-14.	1.8	7
22	Design, microstructure and mechanical characterization of Ti6Al4V reinforcing elements for cement composites with fractal architecture. Materials and Design, 2019, 172, 107758.	7.0	32
23	The effect of oxygen pickup during selective laser melting on the microstructure and mechanical properties of Ti-6Al-4V lattices. Heliyon, 2019, 5, e02813.	3.2	32
24	Selective laser melting processed Ti6Al4V lattices with graded porosities for dental applications. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 90, 20-29.	3.1	96
25	Improving flexural strength and toughness of geopolymer mortars through additively manufactured metallic rebars. Composites Part B: Engineering, 2018, 145, 155-161.	12.0	38
26	Structural dependency of some multiple principal component alloys with the Thomas-Fermi-Dirac electron density. Scripta Materialia, 2018, 146, 95-99.	5.2	4
27	Open Celled Porous Titanium. Advanced Engineering Materials, 2017, 19, 1600664.	3.5	15
28	The Effect of Electronic Structure on the Phases Present in High Entropy Alloys. Scientific Reports, 2017, 7, 39803.	3.3	54
29	X-ray Tomography Characterisation of Lattice Structures Processed by Selective Electron Beam Melting. Metals, 2017, 7, 300.	2.3	15
30	Microporous Titanium through Metal Injection Moulding of Coarse Powder and Surface Modification by Plasma Oxidation. Applied Sciences (Switzerland), 2017, 7, 105.	2.5	10
31	Structure of some CoCrFeNi and CoCrFeNiPd multicomponent HEA alloys by diffraction techniques. Journal of Alloys and Compounds, 2016, 681, 330-341.	5.5	74
32	The effect of defects on the mechanical response of Ti-6Al-4V cubic lattice structures fabricated by electron beam melting. Acta Materialia, 2016, 108, 279-292.	7.9	108
33	Open pore titanium foams via metal injection molding of metal powder with a space holder. Metal Powder Report, 2016, 71, 450-455.	0.1	18
34	On the reinforcement of cement mortars through 3D printed polymeric and metallic fibers. Composites Part B: Engineering, 2016, 90, 76-85.	12.0	123
35	Carbon uptake and distribution in Spark Plasma Sintering (SPS) processed Sm(Co, Fe, Cu, Zr) z. Materials Letters, 2016, 171, 14-17.	2.6	20
36	Porous Titanium for Dental Implant Applications. Metals, 2015, 5, 1902-1920.	2.3	72

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37	The effect of density and feature size on mechanical properties of isostructural metallic foams produced by additive manufacturing. <i>Acta Materialia</i> , 2015, 85, 387-395.	7.9	80
38	Prediction and validation of quaternary high entropy alloys using statistical approaches. <i>Materials Science and Technology</i> , 2015, 31, 1201-1206.	1.6	27
39	Crystalline Structures of Some High Entropy Alloys Obtained by Neutron and X-Ray Diffraction. <i>Acta Physica Polonica A</i> , 2015, 128, 552-557.	0.5	19
40	Combined Atom Probe Tomography and TEM Investigations of CoCrFeNi, CoCrFeNi-Pd <sub>x</sub> (x=0.5, 1.0, 1.5) and CoCrFeNi-Sn. <i>Acta Physica Polonica A</i> , 2015, 128, 557-561.	0.5	28
41	Fabrication and Mechanical Characterisation of Titanium Lattices with Graded Porosity. <i>Metals</i> , 2014, 4, 401-409.	2.3	121
42	Processing of Magnesium Porous Structures by Infiltration Casting for Biomedical Applications. <i>Advanced Engineering Materials</i> , 2014, 16, 241-247.	3.5	45
43	Casting Protocols for the Production of Open Cell Aluminum Foams by the Replication Technique and the Effect on Porosity. <i>Journal of Visualized Experiments</i> , 2014, , .	0.3	12
44	Metal Foams with Graded Pore Size for Heat Transfer Applications. <i>Advanced Engineering Materials</i> , 2013, 15, 123-128.	3.5	24
45	Metal foam regenerators; heat transfer and storage in porous metals. <i>Journal of Materials Research</i> , 2013, 28, 2474-2482.	2.6	15