Xiangpeng Xiao

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3069478/publications.pdf

Version: 2024-02-01

40 papers	688 citations	623734 14 h-index	580821 25 g-index
42 all docs	42 docs citations	42 times ranked	281 citing authors

#	Article	IF	Citations
1	Contribution of Zr to strength and grain refinement in Cu Cr Zr alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 756, 464-473.	5.6	68
2	Suppressing spinodal decomposition by adding Co into Cuâ€“Niâ€“Si alloy. Journal of Alloys and Compounds, 2016, 660, 178-183.	5.5	63
3	Retaining meta-stable fcc-Cr phase by restraining nucleation of equilibrium bcc-Cr phase in CuCrZrTi alloys during ageing. Journal of Alloys and Compounds, 2018, 749, 140-145.	5.5	44
4	Effect of Mg addition on Fe phase morphology, distribution and aging kinetics of Cu-6.5Fe alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 812, 141064.	5.6	42
5	Microstructure and properties of Cuâ€“Niâ€“Siâ€“Zr alloy after thermomechanical treatments. Rare Metals, 2013, 32, 144-149.	7.1	40
6	Effects of diffusing DyZn film on magnetic properties and thermal stability of sintered NdFeB magnets. Journal of Magnetism and Magnetic Materials, 2018, 454, 215-220.	2.3	38
7	Microstructure, magnetic properties and diffusion mechanism of DyMg co-deposited sintered Nd-Fe-B magnets. Journal of Alloys and Compounds, 2020, 819, 153002.	5.5	38
8	Increased coercivity for Nd-Fe-B melt spun ribbons with 20Âat.% Ce addition: The role of compositional fluctuation and Ce valence state. Journal of Alloys and Compounds, 2017, 710, 519-527.	5.5	34
9	Inhibition of discontinuous precipitation and enhanced properties of Cuâ€“15Niâ€“8Sn alloy with Fe addition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 795, 139917.	5.6	31
10	Effects of P addition on spinodal decomposition and discontinuous precipitation in Cu-15Ni-8Sn alloy. Materials Characterization, 2021, 171, 110760.	4.4	27
11	Recrystallization behavior and mechanical properties of a Cuâ€“15Niâ€“8Sn(P) alloy during prior deformation and aging treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 826, 142025.	5.6	24
12	Effects of ultrasonic rolling on surface performance of 7B85-T6 alloy. Materials and Manufacturing Processes, 2020, 35, 250-257.	4.7	20
13	Upward Continuous Casting in the Manufacture of Cu-Cr-Ag Alloys: Potential for Enhancing Strength Whilst Maintaining Ductility. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 6083-6090.	2.2	19
14	Effect of different Zr contents on properties and microstructure of Cu-Cr-Zr alloys. Materials Research Express, 2018, 5, 026515.	1.6	15
15	Effect of multi-stage thermomechanical treatment on Fe phase evolution and properties of Cu-6.5Fe-0.3Mg alloy. Materials Characterization, 2022, 185, 111707.	4.4	15
16	Microstructures and mechanical properties of Cuâ€“Ti alloys with ultrahigh strength and high ductility by thermo-mechanical treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 835, 142672.	5.6	14
17	Mechanical properties and microstructural evolution of a Cuâ€“Crâ€“Ag alloy during thermomechanical treatment. Materials Science and Technology, 2018, 34, 1433-1440.	1.6	12
18	Microstructure and Properties of Copperâ€“Graphite Composites Fabricated by Spark Plasma Sintering Based on Two-Step Mixing. Metals, 2020, 10, 1506.	2.3	12

#	Article	IF	Citations
19	Aging properties and precipitates analysis of Cuâ€“2.3Feâ€“0.03P alloy by thermomechanical treatments. Materials Research Express, 2017, 4, 116511.	1.6	11
20	Aging Behavior and Precipitation Analysis of Cu-Ni-Co-Si Alloy. Crystals, 2018, 8, 435.	2.2	11
21	A novel route for strengthening copper rods: Non-solution heat treatment combined with pre-aging. Journal of Materials Processing Technology, 2019, 274, 116290.	6.3	11
22	Microstructure and strengthening mechanisms of CuCrZr alloy by two-step thermomechanical treatment. Journal of Materials Science: Materials in Electronics, 2020, 31, 17798-17809.	2.2	11
23	Homogeneous transformation of the grain boundary phase and Tb grain boundary diffusion optimization in sintered Nd-Fe-B magnet. Intermetallics, 2022, 144, 107490.	3.9	11
24	Effect of Y2O3 Addition on the Microstructure, Wear Resistance, and Corrosion Behavior of W-4.9Ni-2.1Fe Heavy Alloy. Journal of Materials Engineering and Performance, 2019, 28, 4801-4810.	2.5	9
25	Coarsening behavior of (Ni, Co)2Si particles in Cuâ€“Niâ€“Coâ€“Si alloy during aging treatment. Rare Metals, 2019, 38, 1062-1069.	7.1	8
26	Evolution of microstructure and properties of Cu-4.5 wt.% Ag alloy prepared by vacuum horizontal continuous casting in solid solution and aging treatment. Materials Research Express, 2020, 7, 126517.	1.6	8
27	Effect of Ultrasonic Surface Rolling Treatment on Corrosion Behavior of Alloy 690. Metals, 2020, 10, 917.	2.3	7
28	Microstructure and Properties of Cu-Fe-Cr-Ag Alloy Prepared by Directional Solidification and Upward Continuous Casting. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 2489-2500.	2.2	7
29	Nd-Fe-B Magnets: The Gradient Change of Microstructures and the Diffusion Principle after Grain Boundary Diffusion Process. Materials, 2019, 12, 3881.	2.9	6
30	Optimization of coreâ€“shell structure distribution in sintered Nd-Fe-B magnets by titanium addition. Journal of Rare Earths, 2023, 41, 1068-1072.	4.8	5
31	Microstructure and properties of Cuâ€“2.8Niâ€“0.6Si alloy. Rare Metals, 2013, 32, 228-233.	7.1	4
32	Template synthesis of ordered mesoporous MgO with superior adsorption for Pb(II) and Cd(II). Environmental Science and Pollution Research, 2021, 28, 31630-31639.	5.3	4
33	Stress Relaxation Properties and Microscopic Deformation Structure in Bending of the C7025 and C7035 Alloy. Crystals, 2018, 8, 324.	2.2	3
34	Solidification microstructure of Cuâ€“Cr and Cuâ€“Cr-In alloys. Materials Research Express, 2020, 7, 046501.	1.6	3
35	Study on the Softening Behavior of Cuâ€“Crâ€“In Alloy during Annealing. Crystals, 2020, 10, 312.	2.2	3
36	Enhanced mechanical strength of Cuâ€“Sn alloy by Mg addition. Materials Research Express, 2021, 8, 016541.	1.6	3

#	Article	IF	Citations
37	Effect of solid solution process on the structure and properties of Cu-Cr-Mg alloy in the aging state. Journal of Alloys and Compounds, 2022, 914, 165274.	5.5	3
38	Effects of joint heat distribution on material flow and microstructure in continuous drive friction welding of 45 # steel. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 0, , 095440622110659.	2.1	2
39	Phase equilibria in Ti-rich portion and thermodynamic re-optimization of Coâ€“Ti system. Journal of Iron and Steel Research International, 0, , 1.	2.8	1
40	Effect of trace La on microstructure and properties of Cuâ€“Crâ€“In alloys. Materials Research Express, 2020, 7, 066506.	1.6	0