

Y Z Chen

List of Publications by Year in descending order

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papers

728
citations

567281

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27
all docs

27
docs citations

27
times ranked

703
citing authors

#	ARTICLE	IF	CITATIONS
1	Wear properties of a bulk nanocrystalline Fe-1at% Zr alloy. <i>Materials Today Communications</i> , 2022, 31, 103427.	1.9	0
2	On the austenite stability of cryogenic Ni steels: microstructural effects: a review. <i>Journal of Materials Science</i> , 2021, 56, 12539-12558.	3.7	19
3	In situ observation of remelting induced anomalous eutectic structure formation in an undercooled Ni-18.7 at.% Sn eutectic alloy. <i>Scripta Materialia</i> , 2020, 177, 123-127.	5.2	50
4	High temperature creep resistance of a thermally stable nanocrystalline Fe-5 at.% Zr steel. <i>Scripta Materialia</i> , 2020, 179, 1-5.	5.2	28
5	Mechanisms of eutectic lamellar destabilization upon rapid solidification of an undercooled Ag-39.9 at.% Cu eutectic alloy. <i>Journal of Materials Science and Technology</i> , 2020, 59, 173-179.	10.7	17
6	Modeling remelting induced destabilization of lamellar eutectic structure in an undercooled Ni-18.7 at.% Sn eutectic alloy. <i>Journal of Alloys and Compounds</i> , 2020, 826, 154018.	5.5	5
7	Effects of dealloying and heat treatment parameters on microstructures of nanoporous Pd. <i>Journal of Materials Science and Technology</i> , 2020, 48, 123-129.	10.7	7
8	Irradiation resistance of a thermally stable nanocrystalline Fe-1 at.% Zr alloy. <i>Materials Letters</i> , 2019, 238, 261-263.	2.6	7
9	Influence of Al ₂ O ₃ particle pinning on thermal stability of nanocrystalline Fe. <i>Journal of Materials Science and Technology</i> , 2018, 34, 599-604.	10.7	15
10	Grain size stabilization of mechanically alloyed nanocrystalline Fe-Zr alloys by forming highly dispersed coherent Fe-Zr-O nanoclusters. <i>Acta Materialia</i> , 2018, 158, 340-353.	7.9	41
11	On the Nonequilibrium Interface Kinetics of Rapid Coupled Eutectic Growth. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 3823-3830.	2.2	6
12	Thermal stability of nanocrystalline materials: thermodynamics and kinetics. <i>International Materials Reviews</i> , 2017, 62, 303-333.	19.3	119
13	Modeling solute segregation in grain boundaries of binary substitutional alloys: Effect of excess volume. <i>Journal of Alloys and Compounds</i> , 2016, 682, 89-97.	5.5	14
14	Size effect of ligaments on charge induced surface stress response of nanoporous Pd prepared by dealloying. <i>Scripta Materialia</i> , 2016, 123, 1-4.	5.2	5
15	Defect Recovery in Severely Deformed Ferrite Lamellae During Annealing and Its Impact on the Softening of Cold-Drawn Pearlitic Steel Wires. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 726-738.	2.2	20
16	Microstructural evolution of nanocrystalline Fe-Zr alloys upon annealing treatment. <i>Materials Characterization</i> , 2015, 103, 58-64.	4.4	24
17	Hardening effects in plastically deformed Pd with the addition of H. <i>Scripta Materialia</i> , 2015, 98, 48-51.	5.2	18
18	Phase selection and microstructural formation of rapidly directionally solidified peritectic Fe-Ni alloys by laser surface remelting. <i>Journal of Alloys and Compounds</i> , 2014, 585, 260-266.	5.5	8

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19	Defects in Carbon-Rich Ferrite of Cold-Drawn Pearlitic Steel Wires. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 3882-3889.	2.2	34
20	Increase in dislocation density in cold-deformed Pd using H as a temporary alloying addition. Scripta Materialia, 2013, 68, 743-746.	5.2	54
21	Nanocrystalline Fe-C alloys produced by ball milling of iron and graphite. Acta Materialia, 2013, 61, 3172-3185.	7.9	70
22	On the formation of vacancies in α -ferrite of a heavily cold-drawn pearlitic steel wire. Scripta Materialia, 2011, 64, 390-393.	5.2	32
23	Nonequilibrium effects of primary solidification on peritectic reaction and transformation in undercooled peritectic Fe-Ni alloy. Journal of Materials Research, 2010, 25, 1025-1029.	2.6	7
24	Dendrite growth in undercooled Fe-Co melt. Journal of Alloys and Compounds, 2008, 455, L6-L9.	5.5	12
25	Rapid solidification of bulk undercooled hypoperitectic Fe-Cu alloy. Journal of Alloys and Compounds, 2007, 427, L1-L5.	5.5	78
26	Suppression of peritectic reaction in the undercooled peritectic Fe-Ni melts. Scripta Materialia, 2007, 57, 779-782.	5.2	26
27	Microstructural transitions of metastable phase in undercooled Fe-7.5at% Ni alloy. Journal of Crystal Growth, 2006, 289, 1-5.	1.5	12