

Y Z Chen

List of Publications by Year in descending order

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27
papers

728
citations

567281

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552781

26
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27
docs citations

27
times ranked

703
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal stability of nanocrystalline materials: thermodynamics and kinetics. <i>International Materials Reviews</i> , 2017, 62, 303-333.	19.3	119
2	Rapid solidification of bulk undercooled hypoperitectic Fe-Cu alloy. <i>Journal of Alloys and Compounds</i> , 2007, 427, L1-L5.	5.5	78
3	Nanocrystalline Fe-C alloys produced by ball milling of iron and graphite. <i>Acta Materialia</i> , 2013, 61, 3172-3185.	7.9	70
4	Increase in dislocation density in cold-deformed Pd using H as a temporary alloying addition. <i>Scripta Materialia</i> , 2013, 68, 743-746.	5.2	54
5	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
6	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
7	Defects in Carbon-Rich Ferrite of Cold-Drawn Pearlitic Steel Wires. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 3882-3889.	2.2	34
8	On the formation of vacancies in α -ferrite of a heavily cold-drawn pearlitic steel wire. <i>Scripta Materialia</i> , 2011, 64, 390-393.	5.2	32
9	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
10	Suppression of peritectic reaction in the undercooled peritectic Fe-Ni melts. <i>Scripta Materialia</i> , 2007, 57, 779-782.	5.2	26
11	Microstructural evolution of nanocrystalline Fe-Zr alloys upon annealing treatment. <i>Materials Characterization</i> , 2015, 103, 58-64.	4.4	24
12	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
13	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
14	Hardening effects in plastically deformed Pd with the addition of H. <i>Scripta Materialia</i> , 2015, 98, 48-51.	5.2	18
15	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
16	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
17	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
18	Microstructural transitions of metastable phase in undercooled Fe-7.5at% Ni alloy. <i>Journal of Crystal Growth</i> , 2006, 289, 1-5.	1.5	12

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19	Dendrite growth in undercooled Fe-Co melt. Journal of Alloys and Compounds, 2008, 455, L6-L9.	5.5	12
20	Phase selection and microstructural formation of rapidly directionally solidified peritectic Fe-Ni alloys by laser surface remelting. Journal of Alloys and Compounds, 2014, 585, 260-266.	5.5	8
21	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
22	Irradiation resistance of a thermally stable nanocrystalline Fe-1 at.% Zr alloy. Materials Letters, 2019, 238, 261-263.	2.6	7
23	Effects of dealloying and heat treatment parameters on microstructures of nanoporous Pd. Journal of Materials Science and Technology, 2020, 48, 123-129.	10.7	7
24	On the Nonequilibrium Interface Kinetics of Rapid Coupled Eutectic Growth. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 3823-3830.	2.2	6
25	Size effect of ligaments on charge induced surface stress response of nanoporous Pd prepared by dealloying. Scripta Materialia, 2016, 123, 1-4.	5.2	5
26	Modeling remelting induced destabilization of lamellar eutectic structure in an undercooled Ni-18.7 at.% Sn eutectic alloy. Journal of Alloys and Compounds, 2020, 826, 154018.	5.5	5
27	Wear properties of a bulk nanocrystalline Fe-1at% Zr alloy. Materials Today Communications, 2022, 31, 103427.	1.9	0