

Junfeng Xu

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

349
citations

932766

10
h-index

940134

16
g-index

51
all docs

51
docs citations

51
times ranked

257
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid eutectic growth: from rod growth to diffusionless solidification. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20200305.	1.6	4
2	On the eutectic transition of undercooled hypoeutectic Ni-B alloy in the differing heat extraction process. Materials Letters: X, 2022, 13, 100128.	0.3	1
3	Critical undercooling of growth mode transition in undercooled Al-80%Si-1.0%P alloy. Materials Science and Technology, 2022, 38, 1645-1650.	0.8	0
4	Effects of local nonequilibrium in rapid eutectic solidification—Part 1: Statement of the problem and general solution. Mathematical Methods in the Applied Sciences, 2021, 44, 12211-12220.	1.2	5
5	Observe the temperature curve for solidification from high-speed video image. Journal of Thermal Analysis and Calorimetry, 2021, 146, 2273-2277.	2.0	1
6	The effect of superheat on the nucleation undercooling of metallic melts. Mathematical Methods in the Applied Sciences, 2021, 44, 12351-12359.	1.2	1
7	Effects of local nonequilibrium in rapid eutectic solidification—Part 2: Analysis of effects and comparison to experiment. Mathematical Methods in the Applied Sciences, 2021, 44, 12271.	1.2	3
8	The effect of phosphorus on solidification behaviour of undercooled Al-70wt.%Si alloys. Scientific Reports, 2020, 10, 18230.	1.6	5
9	The recalescence rate of cooling curve for undercooled solidification. Scientific Reports, 2020, 10, 1380.	1.6	16
10	Relation between superheated temperature and cooling rate for deep supercooled niobium melt. RSC Advances, 2019, 9, 5815-5824.	1.7	1
11	Rapid solidification of cobalt melt by molecular dynamics simulation. Journal of Thermal Analysis and Calorimetry, 2019, 138, 287-296.	2.0	3
12	Specific heat measurement of Ge _{7.4} Se _{92.6} glass. Journal of Thermal Analysis and Calorimetry, 2018, 131, 3133-3138.	2.0	3
13	Calorimetric study on Ge ₂₃ Se ₆₇ Sb ₁₀ -0.5CsCl glass. Journal of Thermal Analysis and Calorimetry, 2018, 132, 103-111.	2.0	1
14	Effects of the iodine incorporation on the structure and physical properties of Ge-Sb-Se chalcogenide glasses. Infrared Physics and Technology, 2018, 88, 70-73.	1.3	3
15	Influence of a rare-earth element on the solidification behaviour and mechanical properties of undercooled Al-Si alloys. International Journal of Materials Research, 2018, 109, 729-734.	0.1	2
16	Different Interfaces of Primary Transition and Eutectic Transition. Lecture Notes in Mechanical Engineering, 2018, , 811-817.	0.3	0
17	Synthesis of Fe ₇₅ Cr ₅ (PBC) 20 bulk metallic glasses with a combination of desired merits using industrial ferro-alloys without high-purity materials. Journal of Alloys and Compounds, 2017, 699, 92-97.	2.8	22
18	Effect of phosphorus and heat treatment on microstructure of Al-25%Si alloy. China Foundry, 2017, 14, 10-15.	0.5	9

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19	Glass formation and magnetic properties of Fe-based metallic glasses fabricated by low-purity industrial materials. Transactions of Nonferrous Metals Society of China, 2017, 27, 857-862.	1.7	12
20	Effects of rare-earth element addition and heat treatment on the microstructures and mechanical properties of Al-25 % Si alloy. International Journal of Materials Research, 2017, 108, 269-274.	0.1	6
21	Solidification of the Undercooled Al-Si Alloy Containing 1.0ÅPctRE. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 789-795.	1.1	3
22	Calorimetric studies on Ge ₂₃ Se ₆₇ Sb ₁₀ -0.5%Rbl glass. Optik, 2017, 142, 529-535.	1.4	3
23	An application of box counting method for measuring phase fraction. Measurement: Journal of the International Measurement Confederation, 2017, 100, 297-300.	2.5	5
24	Effect of Melt Superheating Treatment on the Latent Heat Release of Sn. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 1133-1138.	1.1	3
25	Relation of cooling rate, undercooling and structure for rapid solidification of iron melt. Computational Materials Science, 2017, 128, 98-102.	1.4	21
26	Solidification Behavior and Cooling Curves for Hypereutectic Fe-21 At. Pct B Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 1817-1826.	1.1	5
27	In situ observations of the rapid solidification for undercooled Al ₃₀ Si ₇₀ alloy melt. Journal of Materials Research, 2016, 31, 222-231.	1.2	6
28	Crystallization kinetics of the Cu ₅₀ Zr ₅₀ metallic glass under isothermal conditions. Journal of Solid State Chemistry, 2016, 244, 116-119.	1.4	26
29	Observations of fractal patterns induced on surface of chalcogenide glass. Optik, 2016, 127, 11258-11262.	1.4	1
30	Effects of heat treatment on the properties of 99.5Ge ₂₃ Se ₆₇ Sb ₁₀ -0.5CsCl glass. Optik, 2016, 127, 8379-8385.	1.4	9
31	Multi-transformations in rapid solidification of highly undercooled hypoeutectic Ni-3B alloy melt. Journal of Materials Research, 2015, 30, 3307-3315.	1.2	3
32	In Situ Observation of the Competition Between Metastable and Stable Phases in Solidification of Undercooled Fe-17at.ÅpctB Alloy Melt. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 5232-5239.	1.1	10
33	An analytical model for solidification of undercooled metallic melts. Journal of Thermal Analysis and Calorimetry, 2015, 119, 273-280.	2.0	7
34	Solidification of Highly Undercooled Hypereutectic Ni-Ni ₃ B Alloy Melt. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 4810-4819.	1.1	16
35	Phase Selection in Undercooled Ni-3.3 Wt Pct B Alloy Melt. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 1401-1408.	1.1	17
36	Undercooled solidification of Ni-3 wt-%B alloy and cooling curve description. Materials Science and Technology, 2013, 29, 36-42.	0.8	4

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37	In situ observation of solidification of undercooled hypoeutectic Ni ₃ B alloy melt. Journal of Materials Research, 2013, 28, 1891-1902.	1.2	14
38	Phase selection of undercooled solidification of Ni _{4.5} wt% B alloy. Journal of Materials Research, 2013, 28, 3347-3354.	1.2	6
39	Comparison of baseline method and DSC measurement for determining phase fractions. Materials Science and Technology, 2012, 28, 1420-1425.	0.8	3
40	Simple approach for description of undercooled solidification. Materials Science and Technology, 2012, 28, 274-281.	0.8	7
41	Parameter determination of critical nucleation frequency in solidification of undercooled metallic melts. Materials Science and Technology, 2012, 28, 690-694.	0.8	1
42	Microstructure refinement of Fe ₄₀ Ni ₄₀ B ₂₀ alloy in non-equilibrium solidification: possibility of nanostructure formation. Materials Science and Technology, 2012, 28, 844-849.	0.8	5
43	Phase Selection and Microstructure Evolution in Nonequilibrium Solidification of Fe ₄₀ Ni ₄₀ B ₂₀ Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 1578-1587.	1.1	6
44	Determination of Solid Fraction from Cooling Curve. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 1268-1276.	1.1	14
45	Application of recipes for isothermal and isochronal solid-state transformations. Journal of Non-Crystalline Solids, 2010, 356, 1236-1245.	1.5	8
46	Phase transformation kinetics of Ge ₂₃ Se ₆₇ Sb ₁₀ glass. Journal of Non-Crystalline Solids, 2010, 356, 2198-2202.	1.5	9
47	Determination of nucleation and growth modes from evaluation of transformed fraction in solid-state transformation. Acta Materialia, 2008, 56, 6003-6012.	3.8	35
48	Effects of Rbl on the Optical and Mechanical Properties of Ge ₂₃ Se ₆₇ Sb ₁₀ Glass. Advanced Materials Research, 0, 873, 273-278.	0.3	2
49	Rod eutectic growth in bulk undercooled melts. Mathematical Methods in the Applied Sciences, 0, , .	1.2	2