

Junfeng Xu

List of Publications by Year in descending order

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49
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times ranked

257
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Determination of nucleation and growth modes from evaluation of transformed fraction in solid-state transformation. <i>Acta Materialia</i> , 2008, 56, 6003-6012. | 3.8 | 35 |
| 2 | Crystallization kinetics of the Cu ₅₀ Zr ₅₀ metallic glass under isothermal conditions. <i>Journal of Solid State Chemistry</i> , 2016, 244, 116-119. | 1.4 | 26 |
| 3 | 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. <i>Journal of Alloys and Compounds</i> , 2017, 699, 92-97. | 2.8 | 22 |
| 4 | Relation of cooling rate, undercooling and structure for rapid solidification of iron melt. <i>Computational Materials Science</i> , 2017, 128, 98-102. | 1.4 | 21 |
| 5 | Phase Selection in Undercooled Ni-3.3 Wt Pct B Alloy Melt. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 1401-1408. | 1.1 | 17 |
| 6 | Solidification of Highly Undercooled Hypereutectic Ni-Ni ₃ B Alloy Melt. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 4810-4819. | 1.1 | 16 |
| 7 | The recalescence rate of cooling curve for undercooled solidification. <i>Scientific Reports</i> , 2020, 10, 1380. | 1.6 | 16 |
| 8 | Determination of Solid Fraction from Cooling Curve. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 1268-1276. | 1.1 | 14 |
| 9 | In situ observation of solidification of undercooled hypoeutectic Ni ₃ B alloy melt. <i>Journal of Materials Research</i> , 2013, 28, 1891-1902. | 1.2 | 14 |
| 10 | Glass formation and magnetic properties of Fe-based metallic glasses fabricated by low-purity industrial materials. <i>Transactions of Nonferrous Metals Society of China</i> , 2017, 27, 857-862. | 1.7 | 12 |
| 11 | In Situ Observation of the Competition Between Metastable and Stable Phases in Solidification of Undercooled Fe-17at.%B Alloy Melt. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 5232-5239. | 1.1 | 10 |
| 12 | Phase transformation kinetics of Ge ₂₃ Se ₆₇ Sb ₁₀ glass. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 2198-2202. | 1.5 | 9 |
| 13 | Effects of heat treatment on the properties of 99.5Ge ₂₃ Se ₆₇ Sb ₁₀ -0.5CsCl glass. <i>Optik</i> , 2016, 127, 8379-8385. | 1.4 | 9 |
| 14 | Effect of phosphorus and heat treatment on microstructure of Al-25%Si alloy. <i>China Foundry</i> , 2017, 14, 10-15. | 0.5 | 9 |
| 15 | Application of recipes for isothermal and isochronal solid-state transformations. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 1236-1245. | 1.5 | 8 |
| 16 | Simple approach for description of undercooled solidification. <i>Materials Science and Technology</i> , 2012, 28, 274-281. | 0.8 | 7 |
| 17 | An analytical model for solidification of undercooled metallic melts. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 119, 273-280. | 2.0 | 7 |
| 18 | Phase Selection and Microstructure Evolution in Nonequilibrium Solidification of Fe ₄₀ Ni ₄₀ B ₂₀ Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 1578-1587. | 1.1 | 6 |

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|----|--|-----|-----------|
| 19 | Phase selection of undercooled solidification of Ni ^{4.5} wt% B alloy. Journal of Materials Research, 2013, 28, 3347-3354. | 1.2 | 6 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 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 | 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 |
| 25 | 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 |
| 26 | The effect of phosphorus on solidification behaviour of undercooled Al ⁷⁰ wt.%Si alloys. Scientific Reports, 2020, 10, 18230. | 1.6 | 5 |
| 27 | Undercooled solidification of Ni ³ wt-%B alloy and cooling curve description. Materials Science and Technology, 2013, 29, 36-42. | 0.8 | 4 |
| 28 | Rapid eutectic growth: from rod growth to diffusionless solidification. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20200305. | 1.6 | 4 |
| 29 | Comparison of baseline method and DSC measurement for determining phase fractions. Materials Science and Technology, 2012, 28, 1420-1425. | 0.8 | 3 |
| 30 | Multi-transformations in rapid solidification of highly undercooled hypoeutectic Ni ^{Ni3B} alloy melt. Journal of Materials Research, 2015, 30, 3307-3315. | 1.2 | 3 |
| 31 | Solidification of the Undercooled Al-Si Alloy Containing 1.0 Pct RE. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 789-795. | 1.1 | 3 |
| 32 | Calorimetric studies on Ge ₂₃ Se ₆₇ Sb ₁₀ -0.5%RbI glass. Optik, 2017, 142, 529-535. | 1.4 | 3 |
| 33 | 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 |
| 34 | Specific heat measurement of Ge _{7.4} Se _{92.6} glass. Journal of Thermal Analysis and Calorimetry, 2018, 131, 3133-3138. | 2.0 | 3 |
| 35 | 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 |
| 36 | Rapid solidification of cobalt melt by molecular dynamics simulation. Journal of Thermal Analysis and Calorimetry, 2019, 138, 287-296. | 2.0 | 3 |

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|----|---|-----|-----------|
| 37 | Effects of local nonequilibrium in rapid eutectic solidification—Part 2: Analysis of effects and comparison to experiment. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 12271. | 1.2 | 3 |
| 38 | Effects of RbI on the Optical and Mechanical Properties of Ge ₂₃ Se ₆₇ Sb ₁₀ Glass. <i>Advanced Materials Research</i> , 0, 873, 273-278. | 0.3 | 2 |
| 39 | Influence of a rare-earth element on the solidification behaviour and mechanical properties of undercooled Al—Si alloys. <i>International Journal of Materials Research</i> , 2018, 109, 729-734. | 0.1 | 2 |
| 40 | Rod eutectic growth in bulk undercooled melts. <i>Mathematical Methods in the Applied Sciences</i> , 0, , . | 1.2 | 2 |
| 41 | Parameter determination of critical nucleation frequency in solidification of undercooled metallic melts. <i>Materials Science and Technology</i> , 2012, 28, 690-694. | 0.8 | 1 |
| 42 | Observations of fractal patterns induced on surface of chalcogenide glass. <i>Optik</i> , 2016, 127, 11258-11262. | 1.4 | 1 |
| 43 | Calorimetric study on Ge ₂₃ Se ₆₇ Sb ₁₀ —0.5CsCl glass. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 132, 103-111. | 2.0 | 1 |
| 44 | Relation between superheated temperature and cooling rate for deep supercooled niobium melt. <i>RSC Advances</i> , 2019, 9, 5815-5824. | 1.7 | 1 |
| 45 | Observe the temperature curve for solidification from high-speed video image. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 146, 2273-2277. | 2.0 | 1 |
| 46 | The effect of superheat on the nucleation undercooling of metallic melts. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 12351-12359. | 1.2 | 1 |
| 47 | On the eutectic transition of undercooled hypoeutectic Ni-B alloy in the differing heat extraction process. <i>Materials Letters: X</i> , 2022, 13, 100128. | 0.3 | 1 |
| 48 | Different Interfaces of Primary Transition and Eutectic Transition. <i>Lecture Notes in Mechanical Engineering</i> , 2018, , 811-817. | 0.3 | 0 |
| 49 | Critical undercooling of growth mode transition in undercooled Al-80%Si-1.0%P alloy. <i>Materials Science and Technology</i> , 2022, 38, 1645-1650. | 0.8 | 0 |