

Andr s Ro sz

List of Publications by Year in descending order

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40
papers

139
citations

1478280

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1474057

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docs citations

40
times ranked

65
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of the cooling rate or the local solidification time and composition on the secondary dendrite arm spacing during solidification PART II: Al-Mg-Si alloys. International Journal of Cast Metals Research, 2001, 14, 131-135.	0.5	11
2	Thermodynamics-Based Semi-Empirical Description of the Liquidus Surface and Partition Coefficients in Ternary Al-Mg-Si Alloy. Materials Science Forum, 2003, 414-415, 323-328.	0.3	10
3	MICAST – Microstructure Formation in Casting of Technical Alloys under Diffusive and Magnetically Controlled Convective Conditions. Materials Science Forum, 2006, 508, 131-144.	0.3	10
4	Formation of Lead Bearing Surface Layers on Aluminum Alloys by Laser Alloying. Materials Science Forum, 2006, 508, 99-104.	0.3	10
5	Effect of a Rotating Magnetic Field on the Solidified Structure of Al-Si Alloys. Materials Science Forum, 2006, 508, 263-268.	0.3	8
6	Comparison between Simulation and Experimental Results of the Effect of RMF on Directional Solidification of Al-7wt.%Si Alloy. Materials Science Forum, 2010, 649, 269-274.	0.3	7
7	Modelling of Microsegregation of Binary Solid Solutions. Materials Science Forum, 2000, 329-330, 49-56.	0.3	6
8	Development of Monotectic Surface Layers by CO ₂ Laser. Materials Science Forum, 2003, 414-415, 147-152.	0.3	6
9	Effect of High Rotating Magnetic Field on the Solidified Structure of Al-7wt.%Si-1wt.%Fe Alloy. Materials Science Forum, 2013, 752, 57-65.	0.3	6
10	Investigation of Secondary Dendrite Arm Coarsening of Al-Cu-Si Alloy. Materials Science Forum, 2000, 329-330, 79-86.	0.3	5
11	Revolution Number (RPM) Measurement of Molten Alloy by Pressure Compensation Method. Materials Science Forum, 2010, 649, 275-280.	0.3	5
12	Determination of the conditions of laminar/turbulent flow transition using pressure compensation method in the case of Ga75In25 alloy stirred by RMF. Journal of Crystal Growth, 2021, 564, 126078.	0.7	5
13	Experimental Evaluation of MHD Modeling of EMS During Continuous Casting. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2022, 53, 2166-2181.	1.0	5
14	Solidification of Al-4wt.%Cu Alloy under Non-Steady-State Conditions. Materials Science Forum, 2003, 414-415, 133-138.	0.3	4
15	Influence of Solidification Parameters on the Amount of Eutectic and Secondary Arm Spacing of Al-7wt.% Si Alloy Solidified under Microgravity. Crystals, 2022, 12, 414.	1.0	4
16	Visualisation of the Melt Flow under Rotating Magnetic Field. Materials Science Forum, 2007, 537-538, 591-598.	0.3	3
17	Calculation of the Immiscibility Gap by ESTPHAD Method. Materials Science Forum, 2010, 659, 423-428.	0.3	3
18	Comparison of Measured and Numerically Simulated Angular Velocity of Magnetically Stirred Liquid Ga-In Alloy. Materials Science Forum, 2013, 752, 157-166.	0.3	3

#	ARTICLE	IF	CITATIONS
19	Unidirectional Solidification of Pb-Sn Alloys in a Rotating Magnetic Field. Materials Science Forum, 2014, 790-791, 408-413.	0.3	3
20	Producing of Singlecrystal from Heusler Alloy. Materials Science Forum, 2005, 473-474, 171-176.	0.3	2
21	A Comparative Examination of the Friction Coefficient of two Different Sliding Bearing. Materials Science Forum, 2005, 473-474, 471-476.	0.3	2
22	Effect of the High Rotating Magnetic Field (min. 30 mT) on the Unidirectionally Solidified Structure of Al ₇ Si _{0.6} Mg Alloy. Materials Science Forum, 0, 649, 263-268.	0.3	2
23	Production of Single Crystal Thermoelectric Bismuth Telluride Alloys. Materials Science Forum, 0, 659, 263-268.	0.3	2
24	Analysis of Cu-Zr-Al Amorphisable Alloys Produced by Centrifugal Casting. Materials Science Forum, 2010, 649, 93-99.	0.3	2
25	Modelling of Al-7%wtSi-1wt%Fe Ternary Alloy: Application to Space Experiments with a Rotating Magnetic Field. Materials Science Forum, 2014, 790-791, 46-51.	0.3	2
26	Periodically changing rod distance in unidirectional solidified Al-Al ₃ Ni eutectic. Journal of Crystal Growth, 2019, 506, 127-130.	0.7	2
27	Calculation of the Equilibrium Phase Diagram of Fe-Ni Alloy System by the ESTPHAD Method. Materials Science Forum, 0, , 609-614.	0.3	2
28	Calculation of Dendrite Tip Temperature during Constrained Growth. Materials Science Forum, 1996, 215-216, 169-178.	0.3	1
29	Numerical Simulation of Dendrite Arm Coarsening in the Case of Ternary Al Alloys. Materials Science Forum, 2003, 414-415, 483-490.	0.3	1
30	Quantitative Validation of Microstructure Simulation in Case of Unidirectionally Solidified Al-Si Alloys. Materials Science Forum, 2005, 473-474, 355-360.	0.3	1
31	Calculation of the Liquidus and Solidus Surface of Al Rich Corner of Al-Mg-Si Alloy System by ESTPHAD Method. Materials Science Forum, 2006, 508, 635-0.	0.3	1
32	Calculation of the Equilibrium Phase Diagram of Fe-Ni Alloy System by the ESTPHAD Method. Materials Science Forum, 2006, 508, 609-614.	0.3	1
33	Calculation of the Liquidus Curves of CaO-Al ₂ O ₃ Phase Diagram by ESTPHAD Method. Materials Science Forum, 2008, 589, 323-328.	0.3	1
34	Accurate Calculation of the Non-Variant Points of Equilibrium Phase Diagrams by Using the ESTPHAD Method. Materials Science Forum, 0, 729, 448-454.	0.3	1
35	Numerical Simulation of the RMF Stirring of Molten Ga-In Alloy Using RANS K- μ and LES Turbulence Models. Materials Science Forum, 2014, 790-791, 402-407.	0.3	1
36	Liquidus and Solidus Temperature Calculation in Al-Cu-Fe System by ESTPHAD Method. Materials Science Forum, 2014, 790-791, 259-264.	0.3	1

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37	Effect of Crucible Diameter and Wall Roughness on the Melt Flow Generated by Rotating Magnetic Field. Materials Science Forum, 2010, 659, 251-256.	0.3	0
38	Simulation of Isothermal Austenitization in Banded Pearlite Steels by Cellular Automaton. Materials Science Forum, 0, 812, 465-470.	0.3	0
39	Investigation of the Data-Requirement of ESTPHAD Phase Diagram Calculation Method. Materials Science Forum, 2015, 812, 441-446.	0.3	0
40	New Equipment and Method for Refining the Solidified Grain Structure. Metals, 2022, 12, 658.	1.0	0