

Andrs Rosz

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

39
papers

117
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40
ext. papers

127
ext. citations

0.6
avg, IF

2.22
L-index

#	Paper	IF	Citations
39	Formation of Lead Bearing Surface Layers on Aluminum Alloys by Laser Alloying. <i>Materials Science Forum</i> , 2006 , 508, 99-104	0.4	10
38	MICAST [Microstructure Formation in Casting of Technical Alloys under Diffusive and Magnetically Controlled Convective Conditions. <i>Materials Science Forum</i> , 2006 , 508, 131-144	0.4	10
37	Thermodynamics-Based Semi-Empirical Description of the Liquidus Surface and Partition Coefficients in Ternary Al-Mg-Si Alloy. <i>Materials Science Forum</i> , 2003 , 414-415, 323-328	0.4	10
36	The effect of the cooling rate or the local solidification time and composition on the secondary dendrite arm spacing during solidification PART II: AlMgSi alloys. <i>International Journal of Cast Metals Research</i> , 2001 , 14, 131-135	1	9
35	Effect of a Rotating Magnetic Field on the Solidified Structure of Al-Si Alloys. <i>Materials Science Forum</i> , 2006 , 508, 263-268	0.4	8
34	Comparison between Simulation and Experimental Results of the Effect of RMF on Directional Solidification of Al-7wt.%Si Alloy. <i>Materials Science Forum</i> , 2010 , 649, 269-274	0.4	7
33	Development of Monotectic Surface Layers by CO2 Laser. <i>Materials Science Forum</i> , 2003 , 414-415, 147-152	0.4	6
32	Modelling of Microsegregation of Binary Solid Solutions. <i>Materials Science Forum</i> , 2000 , 329-330, 49-56	0.4	6
31	Effect of High Rotating Magnetic Field on the Solidified Structure of Al7wt.%Si1wt.%Fe Alloy. <i>Materials Science Forum</i> , 2013 , 752, 57-65	0.4	5
30	Investigation of Secondary Dendrite Arm Coarsening of Al-Cu-Si Alloy. <i>Materials Science Forum</i> , 2000 , 329-330, 79-86	0.4	5
29	Revolution Number (RPM) Measurement of Molten Alloy by Pressure Compensation Method. <i>Materials Science Forum</i> , 2010 , 649, 275-280	0.4	4
28	Solidification of Al-4wt.-%Cu Alloy under Non-Steady-State Conditions. <i>Materials Science Forum</i> , 2003 , 414-415, 133-138	0.4	4
27	Unidirectional Solidification of Pb-Sn Alloys in a Rotating Magnetic Field. <i>Materials Science Forum</i> , 2014 , 790-791, 408-413	0.4	3
26	Calculation of the Immiscibility Gap by ESTPHAD Method. <i>Materials Science Forum</i> , 2010 , 659, 423-428	0.4	3
25	Visualisation of the Melt Flow under Rotating Magnetic Field. <i>Materials Science Forum</i> , 2007 , 537-538, 591-598	0.4	3
24	Determination of the conditions of laminar/turbulent flow transition using pressure compensation method in the case of Ga75In25 alloy stirred by RMF. <i>Journal of Crystal Growth</i> , 2021 , 564, 126078	1.6	3
23	Modelling of Al-7%wtSi-1wt%Fe Ternary Alloy: Application to Space Experiments with a Rotating Magnetic Field. <i>Materials Science Forum</i> , 2014 , 790-791, 46-51	0.4	2

22	Comparison of Measured and Numerically Simulated Angular Velocity of Magnetically Stirred Liquid Ga-In Alloy. <i>Materials Science Forum</i> , 2013 , 752, 157-166	0.4	2
21	Effect of the High Rotating Magnetic Field (min. 30 mT) on the Unidirectionally Solidified Structure of Al7Si0.6Mg Alloy. <i>Materials Science Forum</i> , 2010 , 649, 263-268	0.4	2
20	Analysis of Cu-Zr-Al Amorphisable Alloys Produced by Centrifugal Casting. <i>Materials Science Forum</i> , 2010 , 649, 93-99	0.4	2
19	Producing of Singlecrystal from Heusler Alloy. <i>Materials Science Forum</i> , 2005 , 473-474, 171-176	0.4	2
18	A Comparative Examination of the Friction Coefficient of two Different Sliding Bearing. <i>Materials Science Forum</i> , 2005 , 473-474, 471-476	0.4	2
17	Liquidus and Solidus Temperature Calculation in Al-Cu-Fe System by ESTPHAD Method. <i>Materials Science Forum</i> , 2014 , 790-791, 259-264	0.4	1
16	Production of Single Crystal Thermoelectric Bismuth Telluride Alloys. <i>Materials Science Forum</i> , 2010 , 659, 263-268	0.4	1
15	Accurate Calculation of the Non-Variant Points of Equilibrium Phase Diagrams by Using the ESTPHAD Method. <i>Materials Science Forum</i> , 2012 , 729, 448-454	0.4	1
14	Calculation of the Liquidus Curves of CaO-Al ₂ O ₃ Phase Diagram by ESTPHAD Method. <i>Materials Science Forum</i> , 2008 , 589, 323-328	0.4	1
13	Numerical Simulation of Dendrite Arm Coarsening in the Case of Ternary Al Alloys. <i>Materials Science Forum</i> , 2003 , 414-415, 483-490	0.4	1
12	Quantitative Validation of Microstructure Simulation in Case of Unidirectionally Solidified Al-Si Alloys. <i>Materials Science Forum</i> , 2005 , 473-474, 355-360	0.4	1
11	Calculation of Dendrite Tip Temperature during Constrained Growth. <i>Materials Science Forum</i> , 1996 , 215-216, 169-178	0.4	1
10	Periodically changing rod distance in unidirectional solidified Al-Al ₃ Ni eutectic. <i>Journal of Crystal Growth</i> , 2019 , 506, 127-130	1.6	1
9	Influence of Solidification Parameters on the Amount of Eutectic and Secondary Arm Spacing of Al ₇ wt% Si Alloy Solidified under Microgravity. <i>Crystals</i> , 2022 , 12, 414	2.3	0
8	Experimental Evaluation of MHD Modeling of EMS During Continuous Casting. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 1	2.5	0
7	Investigation of the Data-Requirement of ESTPHAD Phase Diagram Calculation Method. <i>Materials Science Forum</i> , 2015 , 812, 441-446	0.4	
6	Simulation of Isothermal Austenitization in Banded Pearlite Steels by Cellular Automaton. <i>Materials Science Forum</i> , 2015 , 812, 465-470	0.4	
5	Numerical Simulation of the RMF Stirring of Molten Ga-In Alloy Using RANS K- ϵ and LES Turbulence Models. <i>Materials Science Forum</i> , 2014 , 790-791, 402-407	0.4	

4	Effect of Crucible Diameter and Wall Roughness on the Melt Flow Generated by Rotating Magnetic Field. <i>Materials Science Forum</i> , 2010 , 659, 251-256	0.4
3	Calculation of the Equilibrium Phase Diagram of Fe-Ni Alloy System by the ESTPHAD Method. <i>Materials Science Forum</i> , 2006 , 508, 609-614	0.4
2	Calculation of the Liquidus and Solidus Surface of Al Rich Corner of Al-Mg-Si Alloy System by ESTPHAD Method. <i>Materials Science Forum</i> , 2006 , 508, 635-0	0.4
1	New Equipment and Method for Refining the Solidified Grain Structure. <i>Metals</i> , 2022 , 12, 658	2.3