

NoÃ© Cheung

List of Publications by Year in descending order

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164
papers

2,920
citations

159358

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44
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167
all docs

167
docs citations

167
times ranked

1260
citing authors

#	ARTICLE	IF	CITATIONS
1	Solidification thermal parameters affecting the columnar-to-equiaxed transition. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2002, 33, 2107-2118.	1.1	112
2	Microstructural and hardness investigation of an aluminum-copper alloy processed by laser surface melting. Materials Characterization, 2003, 50, 249-253.	1.9	89
3	Cellular growth during transient directional solidification of hypoeutectic Al-Fe alloys. Journal of Alloys and Compounds, 2009, 470, 589-599.	2.8	86
4	The effects of cell spacing and distribution of intermetallic fibers on the mechanical properties of hypoeutectic Al-Fe alloys. Materials Chemistry and Physics, 2010, 119, 272-278.	2.0	84
5	Interfacial heat transfer coefficients and solidification of an aluminum alloy in a rotary continuous caster. International Journal of Heat and Mass Transfer, 2009, 52, 451-459.	2.5	74
6	The correlation between dendritic microstructure and mechanical properties of directionally solidified hypoeutectic Al-Ni alloys. Metals and Materials International, 2010, 16, 39-49.	1.8	70
7	Relationship between spacing of eutectic colonies and tensile properties of transient directionally solidified Al-Ni eutectic alloy. Journal of Alloys and Compounds, 2018, 733, 59-68.	2.8	66
8	The columnar to equiaxed transition during solidification of Sn-Pb alloys. Journal of Alloys and Compounds, 2003, 351, 126-134.	2.8	61
9	Secondary dendrite arm spacing and solute redistribution effects on the corrosion resistance of Al-10wt% Sn and Al-20wt% Zn alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 420, 179-186.	2.6	61
10	Cellular/dendritic arrays and intermetallic phases affecting corrosion and mechanical resistances of an Al-Mg-Si alloy. Journal of Alloys and Compounds, 2016, 673, 220-230.	2.8	61
11	The use of a heuristic search technique for the optimization of quality of steel billets produced by continuous casting. Engineering Applications of Artificial Intelligence, 2001, 14, 229-238.	4.3	59
12	Microstructure, tensile properties and wear resistance correlations on directionally solidified Al-Sn-(Cu; Si) alloys. Journal of Alloys and Compounds, 2017, 695, 3621-3631.	2.8	58
13	The effects of a eutectic modifier on microstructure and surface corrosion behavior of Al-Si hypoeutectic alloys. Journal of Solid State Electrochemistry, 2007, 11, 1421-1427.	1.2	56
14	Tensile properties and related microstructural aspects of hypereutectic Al-Si alloys directionally solidified under different melt superheats and transient heat flow conditions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 685, 235-243.	2.6	54
15	Microstructural Development in Al-Ni Alloys Directionally Solidified under Unsteady-State Conditions. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 1712-1726.	1.1	53
16	Cooling thermal parameters, microstructure, segregation and hardness in directionally solidified Al-Sn-(Si;Cu) alloys. Materials & Design, 2015, 72, 31-42.	5.1	50
17	Design of mechanical properties of Al-alloys chill castings based on the metal/mold interfacial heat transfer coefficient. International Journal of Thermal Sciences, 2012, 51, 145-154.	2.6	48
18	High cooling rate cells, dendrites, microstructural spacings and microhardness in a directionally solidified Al-Mg-Si alloy. Journal of Alloys and Compounds, 2015, 636, 145-149.	2.8	48

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19	Thermal Parameters, Microstructure, and Mechanical Properties of Directionally Solidified Sn-0.7Åwt.%Cu Solder Alloys Containing 0Åppm to 1000Åppm Ni. Journal of Electronic Materials, 2013, 42, 179-191.	1.0	44
20	Characterization of Dendritic Microstructure, Intermetallic Phases, and Hardness of Directionally Solidified Al-Mg and Al-Mg-Si Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 3342-3355.	1.1	44
21	Investigation of intermetallics in hypoeutectic Al-Fe alloys by dissolution of the Al matrix. Intermetallics, 2009, 17, 753-761.	1.8	43
22	The effects of Zn segregation and microstructure length scale on the corrosion behavior of a directionally solidified Mg-25Åwt.%Zn alloy. Journal of Alloys and Compounds, 2017, 723, 649-660.	2.8	43
23	Cellular to dendritic transition during transient solidification of a eutectic Sn-0.7wt%Cu solder alloy. Materials Chemistry and Physics, 2012, 132, 203-209.	2.0	40
24	Microstructural modification by laser surface remelting and its effect on the corrosion resistance of an Al-9wt%Si casting alloy. Applied Surface Science, 2008, 254, 2763-2770.	3.1	38
25	Melt characteristics and solidification growth direction with respect to gravity affecting the interfacial heat transfer coefficient of chill castings. Materials & Design, 2009, 30, 3592-3601.	5.1	37
26	On array models theoretical predictions versus measurements for the growth of cells and dendrites in the transient solidification of binary alloys. Philosophical Magazine, 2011, 91, 1705-1723.	0.7	37
27	Sn-0.7 wt%Cu-(xNi) alloys: Microstructure-mechanical properties correlations with solder/substrate interfacial heat transfer coefficient. Journal of Alloys and Compounds, 2015, 632, 274-285.	2.8	37
28	Interconnection of thermal parameters, microstructure and mechanical properties in directionally solidified Sn-Sb lead-free solder alloys. Materials Characterization, 2015, 106, 52-61.	1.9	36
29	Evaluation of solder/substrate thermal conductance and wetting angle of Sn-0.7 wt%Cu-(0-0.1) Tj ETQq1 1.0.784314 rgBT /Cv	1.3	36
30	Experimental analysis of the columnar-to-equiaxed transition in directionally solidified Al-Ni and Al-Sn alloys. Materials Letters, 2007, 61, 2135-2138.	1.3	33
31	Laser remelting of Al-1.5 wt%Fe alloy surfaces: Numerical and experimental analyses. Optics and Lasers in Engineering, 2011, 49, 490-497.	2.0	33
32	Application of a heuristic search technique for the improvement of spray zones cooling conditions in continuously cast steel billets. Applied Mathematical Modelling, 2006, 30, 104-115.	2.2	32
33	Application of a Solidification Mathematical Model and a Genetic Algorithm in the Optimization of Strand Thermal Profile Along the Continuous Casting of Steel. Materials and Manufacturing Processes, 2005, 20, 421-434.	2.7	31
34	Monotectic Al-Bi-Sn alloys directionally solidified: Effects of Bi content, growth rate and cooling rate on the microstructural evolution and hardness. Journal of Alloys and Compounds, 2015, 653, 243-254.	2.8	31
35	Microstructure and Tensile/Corrosion Properties Relationships of Directionally Solidified Al-Cu-Ni Alloys. Metals and Materials International, 2018, 24, 1058-1076.	1.8	30
36	Electrochemical Corrosion Behavior of as-cast Zn-rich Zn-Mg Alloys in a 0.06M NaCl Solution. International Journal of Electrochemical Science, 2017, 12, 5264-5283.	0.5	29

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37	Investigation of nonmetallic inclusions in continuously cast carbon steel by dissolution of the ferritic matrix. <i>Materials Characterization</i> , 2002, 48, 255-261.	1.9	28
38	Influence of refining time on nonmetallic inclusions in a low-carbon, silicon-killed steel. <i>Materials Characterization</i> , 2003, 51, 301-308.	1.9	27
39	Experimental impurity segregation and numerical analysis based on variable solute distribution coefficients during multi-pass zone refining of aluminum. <i>Journal of Crystal Growth</i> , 2008, 310, 1274-1280.	0.7	27
40	The effect of the growth rate on microsegregation: Experimental investigation in hypoeutectic Al-Fe and Al-Cu alloys directionally solidified. <i>Journal of Alloys and Compounds</i> , 2013, 561, 193-200.	2.8	27
41	Interconnection of Zn content, macrosegregation, dendritic growth, nature of intermetallics and hardness in directionally solidified Mg-Zn alloys. <i>Journal of Alloys and Compounds</i> , 2016, 662, 1-10.	2.8	26
42	A comparative analysis of microstructural features, tensile properties and wettability of hypoperitectic and peritectic Sn-Sb solder alloys. <i>Microelectronics Reliability</i> , 2018, 81, 150-158.	0.9	26
43	Microstructural development in Al-Sn alloys directionally solidified under transient heat flow conditions. <i>Materials Chemistry and Physics</i> , 2008, 109, 87-98.	2.0	25
44	Near-eutectic Zn-Mg alloys: Interrelations of solidification thermal parameters, microstructure length scale and tensile/corrosion properties. <i>Current Applied Physics</i> , 2019, 19, 582-598.	1.1	24
45	Al-Fe hypoeutectic alloys directionally solidified under steady-state and unsteady-state conditions. <i>Journal of Alloys and Compounds</i> , 2010, 504, 205-210.	2.8	23
46	Cooling thermal parameters, microstructural spacing and mechanical properties in a directionally solidified hypereutectic Al-Si alloy. <i>Philosophical Magazine Letters</i> , 2016, 96, 228-237.	0.5	23
47	Transient directional solidification of a eutectic Al-Si-Ni alloy: Macrostructure, microstructure, dendritic growth and hardness. <i>Materialia</i> , 2019, 7, 100358.	1.3	23
48	Horizontally Solidified Al-3wt%Cu-(0.5wt%Mg) Alloys: Tailoring Thermal Parameters, Microstructure, Microhardness, and Corrosion Behavior. <i>Acta Metallurgica Sinica (English Letters)</i> , 2019, 32, 695-709.	1.5	22
49	The use of a directional solidification technique to investigate the interrelationship of thermal parameters, microstructure and microhardness of Bi-Ag solder alloys. <i>Materials Characterization</i> , 2014, 96, 115-125.	1.9	20
50	An alternative thermal approach to evaluate the wettability of solder alloys. <i>Applied Thermal Engineering</i> , 2016, 107, 431-440.	3.0	19
51	Thermal analysis during solidification of an Al-Cu eutectic alloy: interrelation of thermal parameters, microstructure and hardness. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 137, 983-996.	2.0	19
52	Thermal Parameters and Microstructural Development in Directionally Solidified Zn-Rich Zn-Mg Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 3052-3064.	1.1	18
53	Directional solidification of a Sn-0.2Ni solder alloy in water-cooled copper and steel molds: Related effects on the matrix micromorphology, nature of intermetallics and tensile properties. <i>Journal of Alloys and Compounds</i> , 2017, 723, 1039-1052.	2.8	18
54	Numerical and experimental analysis of an approach based on variable solute distribution coefficients during purification by zone refining. <i>Separation and Purification Technology</i> , 2007, 52, 504-511.	3.9	17

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55	Effects of solidification thermal parameters and Bi doping on silicon size, morphology and mechanical properties of Al-15wt.% Si-3.2wt.% Bi and Al-18wt.% Si-3.2wt.% Bi alloys. <i>Journal of Materials Research and Technology</i> , 2020, 9, 3460-3470.	2.6	17
56	Factors affecting solidification thermal variables along the cross-section of horizontal cylindrical ingots. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 397, 239-248.	2.6	15
57	The correlation between thermal variables and secondary dendrite arm spacing during solidification of horizontal cylinders of Sn-Pb alloys. <i>Journal of Alloys and Compounds</i> , 2005, 399, 110-117.	2.8	15
58	Inverse segregation during transient directional solidification of an Al-Sn alloy: Numerical and experimental analysis. <i>Materials Chemistry and Physics</i> , 2009, 115, 116-121.	2.0	15
59	Application of a Genetic Algorithm to Optimize Purification in the Zone Refining Process. <i>Materials and Manufacturing Processes</i> , 2011, 26, 493-500.	2.7	15
60	Solder/substrate interfacial thermal conductance and wetting angles of Bi-Ag solder alloys. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 1994-2003.	1.1	15
61	Directionally solidified dilute Zn-Mg alloys: Correlation between microstructure and corrosion properties. <i>Journal of Alloys and Compounds</i> , 2017, 723, 536-547.	2.8	15
62	An Effective Inverse Heat Transfer Procedure Based on Evolutionary Algorithms to Determine Cooling Conditions of a Steel Continuous Casting Machine. <i>Materials and Manufacturing Processes</i> , 2015, 30, 414-424.	2.7	14
63	Slow and rapid cooling of Al-Cu-Si ultrafine eutectic composites: Interplay of cooling rate and microstructure in mechanical properties. <i>Journal of Materials Research</i> , 2019, 34, 1381-1394.	1.2	14
64	Effects of Melt Superheating on the Microstructure and Tensile Properties of a Ternary Al-15 Wt Pct Si-1.5 Wt Pct Mg Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 1308-1322.	1.1	14
65	Microstructure characterization of a directionally solidified Mg-12wt.%Zn alloy: Equiaxed dendrites, eutectic mixture and type/ morphology of intermetallics. <i>Materials Chemistry and Physics</i> , 2018, 204, 105-131.	2.0	13
66	Tailoring microstructure, tensile properties and fracture process via transient directional solidification of Zn-Sn alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 712, 127-132.	2.6	13
67	Investigation of the chemical composition of nonmetallic inclusions utilizing ternary phase diagrams. <i>Materials Characterization</i> , 2002, 49, 437-443.	1.9	12
68	Mathematical modeling and experimental analysis of the hardened zone in laser treatment of a 1045 AISI steel. <i>Materials Research</i> , 2004, 7, 349-354.	0.6	12
69	Numerical and experimental modelling of two-dimensional unsteady heat transfer during inward solidification of square billets. <i>Applied Thermal Engineering</i> , 2016, 96, 454-462.	3.0	12
70	An artificial immune system algorithm applied to the solution of an inverse problem in unsteady inward solidification. <i>Advances in Engineering Software</i> , 2018, 121, 178-187.	1.8	12
71	Correlation between microstructure and corrosion behaviour of Bi-Zn solder alloys. <i>Corrosion Engineering Science and Technology</i> , 2019, 54, 362-368.	0.7	12
72	Corrosion behavior of an Al-Sn-Zn alloy: Effects of solidification microstructure characteristics. <i>Journal of Materials Research and Technology</i> , 2021, 12, 257-263.	2.6	12

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73	Microstructure features and mechanical/electrochemical behavior of directionally solidified Al-6wt.%Cu-5wt.%Ni alloy. Transactions of Nonferrous Metals Society of China, 2021, 31, 1529-1549.	1.7	12
74	Interrelationship of thermal parameters, microstructure and microhardness of directionally solidified Bi-Zn solder alloys. Microelectronics Reliability, 2017, 78, 100-110.	0.9	11
75	An Alternative to the Recycling of Fe-Contaminated Al. Journal of Sustainable Metallurgy, 2018, 4, 412-426.	1.1	11
76	Measurement and interrelation of length scale of dendritic microstructures, tensile properties, and machinability of Al-9 wt% Si-(1 wt% Bi) alloys. International Journal of Advanced Manufacturing Technology, 2019, 105, 1391-1410.	1.5	11
77	Cellular-to-Dendritic and Dendritic-to-Cellular Morphological Transitions in a Ternary Al-Mg-Si Alloy. IOP Conference Series: Materials Science and Engineering, 2019, 529, 012018.	0.3	11
78	The application of an analytical model to solve an inverse heat conduction problem: Transient solidification of a Sn-Sb peritectic solder alloy on distinct substrates. Journal of Manufacturing Processes, 2019, 48, 164-173.	2.8	11
79	Plate-like growth in a eutectic Bi-Ni alloy: effects of morphological microstructure evolution and Bi ₃ Ni intermetallic phase on tensile properties. Journal of Materials Research and Technology, 2020, 9, 4940-4950.	2.6	11
80	Length scale of solidification microstructure tailoring corrosion resistance and microhardness in T6 heat treatment of an Al-Cu-Mg alloy. Corrosion Engineering Science and Technology, 2020, 55, 471-479.	0.7	11
81	Improvement of water resistance in magnesia cements with renewable source silica. Construction and Building Materials, 2021, 272, 121650.	3.2	11
82	Inward and outward solidification of cylindrical castings: The role of the metal/mold heat transfer coefficient. Materials Chemistry and Physics, 2012, 136, 545-554.	2.0	10
83	Inward solidification of cylinders: Reversal in the growth rate and microstructure evolution. Applied Thermal Engineering, 2013, 61, 577-582.	3.0	10
84	Evaluation of thermophysical properties of Al-Sn-Si alloys based on computational thermodynamics and validation by numerical and experimental simulation of solidification. Journal of Chemical Thermodynamics, 2016, 98, 9-20.	1.0	10
85	Microstructure Growth Morphologies, Macrosegregation, and Microhardness in Bi-Sb Thermal Interface Alloys. Advanced Engineering Materials, 2020, 22, 1901592.	1.6	10
86	Steady and unsteady state peritectic solidification. Materials Science and Technology, 2015, 31, 105-114.	0.8	9
87	Effects of cobalt and solidification cooling rate on intermetallic phases and tensile properties of a -Cu, -Zn, -Fe containing Al-Si alloy. International Journal of Advanced Manufacturing Technology, 2020, 107, 717-730.	1.5	9
88	Tailoring microstructure and microhardness of Zn-1wt.%Mg-(0.5wt.%Mn, 0.5wt.%Ca) alloys by solidification cooling rate. Transactions of Nonferrous Metals Society of China, 2021, 31, 1031-1048.	1.7	9
89	Multiple linear regression approach to predict tensile properties of Sn-Ag-Cu (SAC) alloys. Materials Letters, 2021, 304, 130587.	1.3	9
90	The variation of the metal/mold heat transfer coefficient along the cross section of cylindrical shaped castings. Inverse Problems in Science and Engineering, 2006, 14, 467-481.	1.2	8

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91	Length scale of the dendritic microstructure affecting tensile properties of Al-(Ag)-(Cu) alloys. International Journal of Modern Physics B, 2016, 30, 1550261.	1.0	8
92	Effects of Macrosegregation and Microstructure on the Corrosion Resistance and Hardness of a Directionally Solidified Zn-5.0wt.%Mg Alloy. Materials Research, 2019, 22, .	0.6	8
93	The Roles of Mn and Ni Additions to Fe-Contaminated Al in Neutralizing Fe and Stabilizing the Cellular \pm -Al Microstructure. Journal of Sustainable Metallurgy, 2019, 5, 561-580.	1.1	8
94	Correlation between unsteady-state solidification thermal parameters and microstructural growth of Zn-8mass%Al and Zn-8mass%Al-XBi tribological alloys. Journal of Thermal Analysis and Calorimetry, 2020, 139, 1741-1761.	2.0	8
95	Transition from high cooling rate cells to dendrites in directionally solidified Al-Sn-(Pb) alloys. Materials Today Communications, 2020, 25, 101490.	0.9	8
96	Microstructure, phase morphology, eutectic coupled zone and hardness of Al Co alloys. Materials Characterization, 2020, 169, 110617.	1.9	8
97	Effect of cooling rate on microstructure and microhardness of hypereutectic Al-Ni alloy. Archives of Civil and Mechanical Engineering, 2021, 21, 1.	1.9	8
98	Application of an Artificial Intelligence Technique to Improve Purification in the Zone Refining Process. Journal of Electronic Materials, 2010, 39, 49-55.	1.0	7
99	Interplay of Wettability, Interfacial Reaction and Interfacial Thermal Conductance in Sn-0.7Cu Solder Alloy/Substrate Couples. Journal of Electronic Materials, 2020, 49, 173-187.	1.0	7
100	Morphology of Intermetallics Tailoring Tensile Properties and Quality Index of a Eutectic Al-Si-Ni Alloy. Advanced Engineering Materials, 2020, 22, 2000503.	1.6	7
101	Mechanical Properties, Microstructural Features, and Correlations with Solidification Rates of Al-Cu-Si Ultrafine Eutectic Alloys. Advanced Engineering Materials, 2021, 23, 2001177.	1.6	7
102	Effects of cooling rate and microstructure scale on wear resistance of unidirectionally solidified Al-3.2wt.%Bi-(1; 3) wt.%Pb alloys. Materials Today Communications, 2020, 25, 101659.	0.9	7
103	Assessing Microstructure Tensile Properties Relationships in Al-7Si-Mg Alloys via Multiple Regression. Metals, 2022, 12, 1040.	1.0	7
104	Numerical and experimental analysis of laser surface remelting of Al-15Cu alloy samples. Surface Engineering, 2005, 21, 473-479.	1.1	6
105	The effect of solidification thermal variables on surface quality of Al-Cu ingots. Journal of Alloys and Compounds, 2007, 428, 130-138.	2.8	6
106	Zone Refining of Tin: Optimization of Zone Length by a Genetic Algorithm. Materials and Manufacturing Processes, 2013, 28, 746-752.	2.7	6
107	Transient Unidirectional Solidification, Microstructure and Intermetallics in Sn-Ni Alloys. Materials Research, 2018, 21, .	0.6	6
108	Effect of Microstructure Features on the Corrosion Behavior of the Sn-2.1wt%Mg Solder Alloy. Electronic Materials Letters, 2020, 16, 276-292.	1.0	6

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109	Electrochemical corrosion behaviour of Sn-Sb solder alloys: the roles of alloy Sb content and type of intermetallic compound. <i>Corrosion Engineering Science and Technology</i> , 2021, 56, 11-21.	0.7	6
110	Solidification microstructure-dependent hydrogen generation behavior of Al-Sn and Al-Fe alloys in alkaline medium. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 12654-12671.	3.8	6
111	Thermal conductance at Sn-0.5mass%Al solder alloy/substrate interface as a factor for tailoring cellular/dendritic growth. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 4945-4958.	2.0	6
112	The Effects of Solidification Cooling and Growth Rates on Microstructure and Hardness of Supersaturated Al-7%Si-x%Zn Alloys. <i>Journal of Materials Engineering and Performance</i> , 2022, 31, 1956-1970.	1.2	6
113	InfluÃªncia na microestrutura e na microdureza decorrente da adiÃ§Ã£o de 4%Ag na liga Al-4%Cu solidificada unidirecionalmente. <i>Revista Materia</i> , 2015, 20, 992-1007.	0.1	5
114	Tailoring Morphology and Size of Microstructure and Tensile Properties of Sn-5.5Åwt.%Sb-1Åwt.%(Cu,Ag) Solder Alloys. <i>Journal of Electronic Materials</i> , 2018, 47, 1647-1657.	1.0	5
115	Metal/mold thermal conductance affecting ultrafine scale microstructures in aluminum eutectic alloys. <i>Case Studies in Thermal Engineering</i> , 2021, 26, 101144.	2.8	5
116	Fatigue Failure Analysis of a Speed Reduction Shaft. <i>Metals</i> , 2021, 11, 856.	1.0	4
117	Two-Phase Dendrite and Bimodal Structure in an Al-Cu-Ni Alloy: Their Roles in Hardness. <i>Journal of Materials Engineering and Performance</i> , 2022, 31, 3704-3715.	1.2	4
118	Hypereutectic Zn-Al Alloys: Microstructural Development under Unsteady-State Solidification Conditions, Eutectic Coupled Zone and Hardness. <i>Metals</i> , 2022, 12, 1076.	1.0	4
119	Numerical and experimental analysis of rapidly solidified laser remelted Al 5wt pct Ni surfaces. <i>International Journal of Microstructure and Materials Properties</i> , 2010, 5, 193.	0.1	3
120	SEM Characterization of Al₃Ni Intermetallics and its Influence on Mechanical Properties of Directionally Solidified Hypoeutectic Al-Ni Alloys. <i>Materials Science Forum</i> , 0, 636-637, 465-470.	0.3	3
121	Sn-0.5Cu(-x)Al Solder Alloys: Microstructure-Related Aspects and Tensile Properties Responses. <i>Metals</i> , 2019, 9, 241.	1.0	3
122	Purification of naphthalene by zone refining: Mathematical modelling and optimization by swarm intelligence-based techniques. <i>Separation and Purification Technology</i> , 2020, 234, 116089.	3.9	3
123	Interface evaluation of a Bi-Zn eutectic solder alloy: Effects of different substrate materials on thermal contact conductance. <i>International Journal of Thermal Sciences</i> , 2021, 160, 106685.	2.6	3
124	Modifications on solidification thermal parameters, microstructure and hardness induced by Cu additions to a hypereutectic Zn 8Al alloy. <i>Materials Characterization</i> , 2021, 174, 110936.	1.9	3
125	Dendritic Spacing and Macrosegregation Affecting Microhardness of an Al-Si-Mg Alloy Solidified Under Unsteady State Conditions. <i>Materials Research</i> , 2019, 22, .	0.6	3
126	Analysis of extensive wetting angle vs. cooling rate data in Bi-, Zn- and Sn-based solder alloys. <i>Microelectronics Reliability</i> , 2022, 135, 114593.	0.9	3

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127	Microstructural and segregation effects affecting the corrosion behavior of a high-temperature Bi-Ag solder alloy in dilute chloride solution. Journal of Applied Electrochemistry, 2021, 51, 769-780.	1.5	2
128	Local solidification thermal parameters affecting the eutectic extent in Sn-Cu and Sn-Bi solder alloys. Soldering and Surface Mount Technology, 2021, ahead-of-print, .	0.9	2
129	PARÃ, METROS TÃMICOS, MACROESTRUTURA E MICROESTRUTURA NA SOLIDIFICAÃO DIRECIONAL DA LIGA Al-20%Sn. Tecnologia Em Metalurgia E Materiais, 2008, 4, 21-26.	0.1	2
130	Experimental investigation of factors affecting surface quality of Al-Cu alloys ingots. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 431, 201-205.	2.6	1
131	Numerical and Experimental Analysis of Laser Surface Remelting of Al 9wt% Si Alloy Samples. Materials Science Forum, 2008, 587-588, 721-725.	0.3	1
132	Corrosion Resistances of As-Cast and Quenched Samples of a Zn-22Al Eutectoid Alloy. Materials Science Forum, 0, 587-588, 355-359.	0.3	1
133	Numerical Simulation and Experimental Analysis of Laser Surface Remelting of AISI 304 Stainless Steel Samples. Materials Science Forum, 0, 636-637, 1119-1124.	0.3	1
134	Cellular Microstructure and Mechanical Properties of a Directionally Solidified Al-1.0wt%Fe Alloy. Materials Science Forum, 0, 636-637, 564-570.	0.3	1
135	Heat Transfer Characteristics of Inward, Outward and Upward Solidification of an Al-1.5wt%Fe Alloy in Cylindrical Chill Molds. Materials Science Forum, 0, 730-732, 805-810.	0.3	1
136	Effect of Mold Surface Roughness on the Interfacial Heat Transfer Coefficient During Solidification of Solder Alloys. Materials Science Forum, 2012, 730-732, 751-756.	0.3	1
137	Microstructure and Mechanical Properties of Directionally Solidified Unmodified and Ni-Modified Sn-0.7wt%Cu Lead-Free Solder Alloy. Defect and Diffusion Forum, 0, 333, 107-115.	0.4	1
138	Dendritic and eutectic growth of Sn-0.5wt.%Cu solders with low alloying Al levels. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2019, 233, 1733-1737.	0.7	1
139	Sn-Mg lead-free solder alloy: Effect of solidification thermal parameters on microstructural features and microhardness. Materials Research Express, 2019, 6, 126562.	0.8	1
140	Interfacial heat transfer and microstructural analyses of a Bi- 5% Sb lead-free alloy solidified against Cu, Ni and low-C steel substrates. Journal of Alloys and Compounds, 2021, 860, 158553.	2.8	1
141	Effect of Bi content on microstructure and corrosion behaviour of Zn-8Al-(Bi) alloys. Corrosion Engineering Science and Technology, 2021, 56, 461-472.	0.7	1
142	CORRELAÃO ENTRE MICROESTRUTURA, RESISTÃNCIAS MECÃNICA E Ã CORROSÃO DA LIGA DE SOLDAGEM LIVRE DE CHUMBO Sn-0,7%Cu*. Tecnologia Em Metalurgia, Materiais E Mineracao, 2014, 11, 277-286.	0.1	1
143	Nature inspired algorithms for the solution of inverse heat transfer problems applied to distinct unsteady heat flux orientations in cylindrical castings. Journal of Intelligent Manufacturing, 0, , 1.	4.4	1
144	Development and Experimental Validation of a Numerical Thermal Model for the Evaluation of the Depth of Laser Treated Zone in the Laser Transformation Hardening Process. Materials Science Forum, 2003, 423-425, 707-712.	0.3	0

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145	Numerical Simulation and Experimental Analysis of Laser Surface Remelting of AISI 420 Stainless Steel Samples. <i>Advanced Materials Research</i> , 0, 59, 265-268.	0.3	0
146	Assessment of Cooling Conditions of a Continuous Casting Machine for Steel Billets Based on Surface Temperature Measurements. <i>Materials Science Forum</i> , 2012, 730-732, 841-846.	0.3	0
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