

Hideyuki Yasuda

List of Publications by Year in Descending Order

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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.

205
papers

3,157
citations

32
h-index

47
g-index

218
ext. papers

3,494
ext. citations

2.4
avg, IF

5.15
L-index

#	Paper	IF	Citations
205	Controlling the distribution of porosity during transient liquid phase bonding of Sn-based solder joint. <i>Materials Today Communications</i> , 2022 , 31, 103248	2.5	1
204	Properties of Sn-3wt%Ag-5wt%Cu alloys with CuSn intermetallics grain refined by Mg. <i>Materials Today Communications</i> , 2022 , 31, 103221	2.5	0
203	The effect of Ni on the growth morphology of primary β phase in an In-35wt%Sn alloy. <i>Journal of Alloys and Compounds</i> , 2022 , 897, 163172	5.7	2
202	In-situ observation of high-temperature Pb-free electric interconnections by synchrotron microradiography. <i>Materials Letters</i> , 2021 , 291, 129520	3.3	2
201	Time-resolved and in-situ Observation of Semisolid Deformation in AlCu Alloys with Equiaxed and Columnar Grain Structures by Using a Combination Technique of 4D-CT and 3DXRD. <i>ISIJ International</i> , 2021 , 61, 1567-1578	1.7	3
200	Microstructure, thermal behavior and joint strength of Sn-0.7Cu-1.5Bi/electroless nickel immersion gold (ENIG). <i>Journal of Materials Research and Technology</i> , 2021 , 12, 1700-1714	5.5	3
199	Time-resolved and In-situ Observation of Solidification in TiAl Alloys. <i>ISIJ International</i> , 2021 , 61, 1872-1878	1.7	3
198	A Modified Random Sampling Method Using Unidirectionally Solidified Specimen: Solute Partition Coefficients in FeCrNiMoCu Alloys. <i>ISIJ International</i> , 2021 , 61, 1879-1888	1.7	0
197	Rapid fabrication of tin-copper anodes for lithium-ion battery applications. <i>Journal of Alloys and Compounds</i> , 2021 , 867, 159031	5.7	2
196	Two-dimensional phase-field study for spangle texture formation in hot-dip galvanizing. <i>Computational Materials Science</i> , 2021 , 187, 110077	3.2	2
195	Origin of Primary Cu ₆ Sn ₅ in Hypoeutectic Solder Alloys and a Method of Suppression to Improve Mechanical Properties. <i>Journal of Electronic Materials</i> , 2021 , 50, 710-722	1.9	2
194	Effect of Ni, Zn, Au, Sb and In on the Suppression of the Cu ₃ Sn Phase in Sn-10 wt.%Cu Alloys. <i>Journal of Electronic Materials</i> , 2021 , 50, 881-892	1.9	2
193	Evaluation of wave-like nucleation events in Al-4%Si alloys with addition of TiB ₂ particles by time-resolved and in-situ observation. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2021 , 71, 22-29	0.3	0
192	Effects of Surface Finish on Sn-3.0Ag-0.5Cu Solder Joint Microstructure and Strength. <i>Journal of Electronic Materials</i> , 2021 , 50, 855-868	1.9	2
191	Microstructure Evolution of Ag/TiO ₂ Thin Film. <i>Magnetochemistry</i> , 2021 , 7, 14	3.1	0
190	Formation of Extra Vacancies in Nucleating β Phase during β Massive-like Phase Transformation in Carbon Steel. <i>Journal of Smart Processing</i> , 2021 , 10, 202-207	0.2	0
189	Erratum to Selection of the Massive-like β Transformation due to Nucleation of Metastable β Phase in Fe-18 Mass%Cr-Ni Alloys with Ni Contents of 8, 11, 14 and 20 Mass% [ISIJ International, Vol. 59 (2019), No. 3, pp. 459-465]. <i>ISIJ International</i> , 2021 , 61, 1053-1053	1.7	0

188	Peritectic phase formation kinetics of directionally solidifying Sn-Cu alloys within a broad growth rate regime. <i>Acta Materialia</i> , 2021 , 220, 117295	8.4	3
187	Characterization of Growing Dendrites in CrMnFeCoNi High-Entropy Alloy by Time-Resolved and In-Situ Tomography. <i>Materials Transactions</i> , 2020 , 61, 596-604	1.3	6
186	Microstructure and growth kinetic study in SnCu transient liquid phase sintering solder paste. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 11077-11094	2.1	4
185	In situ observation of austenite coarsening induced by massive-like transformation during solidification in FeC alloys. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 861, 012051	0.4	1
184	Observation of semisolid deformation by using 4D-CT and 3DXRD. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 861, 012065	0.4	4
183	Rheological transitions in semi-solid alloys: In-situ imaging and LBM-DEM simulations. <i>Acta Materialia</i> , 2020 , 191, 24-42	8.4	12
182	Time Evolution of Solidification Structure in Ductile Cast Iron with Hypereutectic Compositions. <i>International Journal of Metalcasting</i> , 2020 , 14, 794-801	1.4	3
181	Time-resolved and In-situ Observation of γ transformation during Unidirectional Solidification in FeC Alloys. <i>ISIJ International</i> , 2020 , 60, 930-938	1.7	2
180	Effect of Elemental Combination on Microstructure and Mechanical Properties of Quaternary Refractory Medium Entropy Alloys. <i>Materials Transactions</i> , 2020 , 61, 577-586	1.3	3
179	In-situ Measurements of Solute Partition Coefficients between Solid and Liquid Phases in FeCrNiMoCu Alloys during Solidification. <i>ISIJ International</i> , 2020 , 60, 276-285	1.7	6
178	Quantitative analysis of solidification of equiaxed grains in Al-Cu alloy refined by inoculant TiB ₂ particles with using time-resolved X-ray tomography. <i>Keikin-zoku/Journal of Japan Institute of Light Metals</i> , 2020 , 70, 339-346	0.3	3
177	Transformation from Ferrite to Austenite during/after Solidification in Peritectic Steel Systems: an X-ray Imaging Study. <i>ISIJ International</i> , 2020 , 60, 2755-2764	1.7	2
176	The effect of Bi on the microstructure, electrical, wettability and mechanical properties of Sn-0.7Cu-0.05Ni alloys for high strength soldering. <i>Materials and Design</i> , 2020 , 186, 108281	8.1	18
175	In Situ Observations of Nucleation and Growth Behavior on Fe ₂ Al ₅ Intermetallic Compound Formed in Molten Zinc Bath. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2019 , 105, 709-715	0.5	
174	Al ₈ Mn ₅ Particle Settling and Interactions with Oxide Films in Liquid AZ91 Magnesium Alloys. <i>Jom</i> , 2019 , 71, 2235-2244	2.1	13
173	In situ studies revealing dendrite and eutectic growth during the solidification of Sn-0.7Cu-0.5Ag Pb-free solder alloy. <i>Journal of Alloys and Compounds</i> , 2019 , 797, 804-810	5.7	12
172	Characterization of dendritic growth in FeC system using time-resolved X-ray tomography and physics-based filtering. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 529, 012023	0.4	5
171	Dendrite fragmentation induced by massive-like γ transformation in Fe-C alloys. <i>Nature Communications</i> , 2019 , 10, 3183	17.4	35

170	Time-resolved and In-situ Observation of δ Transformation during Unidirectional Solidification in Fe-C Alloys. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2019 , 105, 290-298	0.5	13
169	Investigation using 4D-CT of massive-like transformation from the δ to β phase during and after Solidification in carbon steels. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 529, 0120134	0.4	7
168	Selection of the Massive-like δ Transformation due to Nucleation of Metastable β Phase in Fe-18 Mass%Cr-Ni Alloys with Ni Contents of 8, 11, 14 and 20 Mass%. <i>ISIJ International</i> , 2019 , 59, 459-465	1.7	9
167	Semi-solid deformation of Al-Cu alloys: A quantitative comparison between real-time imaging and coupled LBM-DEM simulations. <i>Acta Materialia</i> , 2019 , 163, 208-225	8.4	15
166	Competition between stable and metastable eutectic growth in Sn-Ni alloys. <i>Acta Materialia</i> , 2018 , 149, 119-131	8.4	12
165	Effect of Trace Elements on the Liquid Structure of Sn-Cu Alloys Investigated by High Energy X-Ray Diffraction. <i>Solid State Phenomena</i> , 2018 , 273, 101-106	0.4	0
164	Suppression of Cu ₃ Sn in the Sn-10Cu peritectic alloy by the addition of Ni. <i>Journal of Alloys and Compounds</i> , 2018 , 766, 1003-1013	5.7	14
163	X-Ray Imaging of Formation and Growth of Spheroidal Graphite in Ductile Cast Iron. <i>Materials Science Forum</i> , 2018 , 925, 104-109	0.4	5
162	Synchrotron Radiography of Sn-0.7Cu-0.05Ni Solder Solidification. <i>Solid State Phenomena</i> , 2018 , 273, 66-71	0.4	2
161	High-Density β -FeSi ₂ crystals with 3D alignment fabricated by an oscillating magnetic field. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 424, 012074	0.4	
160	Influence of Ni on the refinement and twinning of primary Cu ₆ Sn ₅ in Sn-0.7Cu-0.05Ni. <i>Intermetallics</i> , 2018 , 102, 34-45	3.5	14
159	In-Situ Characterization of Dendrite Tip Radius in Sn-Base Alloys. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2018 , 82, 78-83	0.4	0
158	In situ imaging of microstructure formation in electronic interconnections. <i>Scientific Reports</i> , 2017 , 7, 40010	4.9	33
157	Cu ₆ Sn ₅ crystal growth mechanisms during solidification of electronic interconnections. <i>Acta Materialia</i> , 2017 , 126, 540-551	8.4	51
156	Dilatancy in semi-solid steels at high solid fraction. <i>Acta Materialia</i> , 2017 , 125, 187-195	8.4	35
155	Elucidation of Mechanism of Emergence of Magnetic Anisotropy in FePd by Phase-Field Modeling. <i>Journal of the Japan Society for Precision Engineering</i> , 2017 , 83, 415-419	0.1	
154	In-situ Measurement of Solute Partition Coefficient in Fe-Cr-Ni-Mo Alloys by Using X-ray Imaging and X-ray Florescence Analysis. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2017 , 103, 678-687	0.5	4
153	In Situ Observations of Tensile and Compressive Deformations in Semi Solid Metallic Alloys Using Time-resolved X-ray Imaging. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2017 , 103, 668-677	0.5	3

152	Real-Time Observation of AZ91 Solidification by Synchrotron Radiography. <i>Minerals, Metals and Materials Series</i> , 2017 , 597-603	0.3	2
151	Elucidation of β Massive like Transformation focusing on hetero-phase interface and competition between nucleation itself and consequent growth. <i>The Proceedings of the Computational Mechanics Conference</i> , 2017 , 2017.30, 217	0	
150	Effect of TiO ₂ on the Formation of Primary and Interfacial Cu ₆ Sn ₅ in Sn-0.7wt%Cu and Sn-0.7wt%Cu-0.05wt%Ni Solder Paste during Soldering. <i>Key Engineering Materials</i> , 2016 , 700, 161-169	0.4	4
149	The influence of ageing on the stabilisation of interfacial (Cu,Ni) ₆ (Sn,Zn) ₅ and (Cu,Au,Ni) ₆ Sn ₅ intermetallics in Pb-free Ball Grid Array (BGA) solder joints. <i>Journal of Alloys and Compounds</i> , 2016 , 685, 471-482	5.7	31
148	Solidification of Sn-3Ag-0.5Cu and Sn-0.7Cu-0.05Ni Solders. <i>Materials Science Forum</i> , 2016 , 857, 44-48	0.4	
147	Effect of Ni on the Formation and Growth of Primary Cu ₆ Sn ₅ Intermetallics in Sn-0.7 wt.%Cu Solder Pastes on Cu Substrates During the Soldering Process. <i>Journal of Electronic Materials</i> , 2016 , 45, 154-163	1.9	39
146	In situ Observation of Dendrite Growth in Sn-Bi Alloys under Ultrasonic Vibration Using Time-resolved X-ray Imaging. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2016 , 102, 170-178	0.5	3
145	Possible Contribution of Successive Nucleations to β Massive-like Transformation. <i>The Proceedings of the Computational Mechanics Conference</i> , 2016 , 2016.29, 4_256	0	
144	Suppression of Cu ₆ Sn ₅ in TiO ₂ reinforced solder joints after multiple reflow cycles. <i>Materials and Design</i> , 2016 , 108, 418-428	8.1	48
143	Influence of Mg on Solidification of Hypereutectic Cast Iron: X-ray Radiography Study. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 4937-4946	2.3	25
142	Localization of shear strain and shear band formation induced by deformation in semi-solid Al-Cu alloys. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 84, 012078	0.4	1
141	Development of a microwave sintered TiO ₂ reinforced Sn0.7wt%Cu0.05wt%Ni alloy. <i>Materials and Design</i> , 2015 , 82, 136-147	8.1	35
140	On modeling of grain boundary segregation in aliovalent cation doped ZrO ₂ : Critical factors in site-selective point defect occupancy. <i>Scripta Materialia</i> , 2015 , 102, 91-94	5.6	6
139	A real-time synchrotron X-ray study of primary phase nucleation and formation in hypoeutectic AlSi alloys. <i>Journal of Crystal Growth</i> , 2015 , 430, 122-137	1.6	40
138	Kinetics of the β Interface in the massive-like transformation in Fe-0.3C-0.6Mn-0.3Si alloys. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 84, 012062	0.4	15
137	Rapid Cu ₆ Sn ₅ growth at liquid Sn/solid Cu interfaces. <i>Scripta Materialia</i> , 2015 , 100, 17-20	5.6	48
136	The influence of Ni and Zn additions on microstructure and phase transformations in Sn0.7Cu/Cu solder joints. <i>Acta Materialia</i> , 2015 , 83, 357-371	8.4	85
135	Large-Field X-ray Imaging at SPring-8 BL20B2. <i>Synchrotron Radiation News</i> , 2015 , 28, 30-35	0.6	2

134	Numerically-quantified two dimensionality of microstructure evolution accompanying variant selection of FePd. <i>Materials Research Express</i> , 2015 , 2, 076502	1.7	1
133	Impacts of Interface Energies and Transformation Strain from BCC to FCC on Massive-like β Transformation in Steel. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 84, 012049	0.4	8
132	Interface Energies of Hetero- and Homo-Phase Boundaries and Their Impact on δ - γ ; Massive-Like Phase Transformations in Carbon Steel. <i>Materials Transactions</i> , 2015 , 56, 1461-1466	1.3	15
131	Atomistic Analyses of Competition between Site-Selective Segregation and Association of Point Defects at Grain Boundary in Y ₂ O ₃ -Doped ZrO ₂ . <i>Materials Transactions</i> , 2015 , 56, 1344-1349	1.3	5
130	Concurrent γ -Phase Nucleation as a Possible Mechanism of δ - γ ; Massive-like Phase Transformation in Carbon Steel: Numerical Analysis Based on Effective Interface Energy. <i>Materials Transactions</i> , 2015 , 56, 1467-1474	1.3	14
129	Yet Another Marked Difference among Impurities as Modifier Elements for Refinement of Eutectic Si in Al-Si Alloys. <i>Materials Transactions</i> , 2015 , 56, 1475-1483	1.3	1
128	Application of a macroscopic model to predict the band segregation induced by shear deformation of semisolid. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 84, 012011	0.4	
127	Real-time synchrotron x-ray observations of equiaxed solidification of aluminium alloys and implications for modelling. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 84, 012014	0.4	15
126	Impact of melt convection induced by ultrasonic wave on dendrite growth in SnBi alloys. <i>Materials Letters</i> , 2015 , 150, 135-138	3.3	24
125	In Situ Soldering Process Technique by Synchrotron X-Ray Imaging. <i>Applied Mechanics and Materials</i> , 2015 , 754-755, 508-512	0.3	3
124	Nonrandom point defect configurations and driving force transitions for grain boundary segregation in trivalent cation doped ZrO ₂ . <i>Langmuir</i> , 2014 , 30, 14179-88	4	16
123	Eutectic Morphology of Al-7Si-0.3Mg Alloys with Scandium Additions. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 4549-4560	2.3	28
122	Synchrotron Radiography Studies of Shear-Induced Dilation in Semisolid Al Alloys and Steels. <i>Jom</i> , 2014 , 66, 1415-1424	2.1	9
121	Particle size distribution and composition in phase-separated Cu ₇₅ Co ₂₅ alloys under various magnetic fields. <i>Scripta Materialia</i> , 2014 , 82, 5-8	5.6	24
120	Ni segregation in the interfacial (Cu,Ni) ₆ Sn ₅ intermetallic layer of Sn-0.7Cu-0.05Ni/Cu ball grid array (BGA) joints. <i>Intermetallics</i> , 2014 , 54, 20-27	3.5	20
119	In Situ Observation of Solidification Behaviors in Carbon Steels Using Synchrotron X-ray Imaging. <i>Materia Japan</i> , 2014 , 53, 467-470	0.1	
118	Impact of interplay between magnetic field, transformation strain, and coarsening on variant selection in L10-type FePd. <i>Journal of Applied Physics</i> , 2014 , 115, 073501	2.5	6
117	In Situ Observation of Deformation in Semi-solid Fe-C Alloys at High Shear Rate. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 5613-5623	2.3	16

116	Solidification of Sn-0.7Cu-0.15Zn Solder: In Situ Observation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 918-926	2.3	14
115	Impact of Dynamic Interlayer Interactions on Thermal Conductivity of Ca ₃ Co ₄ O ₉ . <i>Journal of Electronic Materials</i> , 2014 , 43, 1905-1915	1.9	8
114	Development in In Situ Observation of Deformation in Semi-solid Alloys Using X-Ray Imaging 2014 , 231-243		1
113	Real time synchrotron X-ray observations of solidification in hypoeutectic AlBi alloys. <i>Materials Characterization</i> , 2013 , 85, 134-140	3.9	33
112	Advanced Analysis of Solidification by X-ray Imaging 2013 , 93-104		
111	Phase selection and microstructure formation in undercooled Co ₈₁ 1.8at.% Si melts under various containerless processing conditions. <i>Acta Materialia</i> , 2013 , 61, 4861-4873	8.4	22
110	In situ study of granular micromechanics in semi-solid carbon steels. <i>Acta Materialia</i> , 2013 , 61, 4169-4179	8.4	32
109	Characterization of Shear Deformation Based on In-situ Observation of Deformation in Semi-solid AlCu Alloys and Water-particle Mixture. <i>ISIJ International</i> , 2013 , 53, 1195-1201	1.7	16
108	Effect of Spatial Distribution of Local Magnetization on Microstructure Formation in L10-type Ferromagnetic Alloys under External Magnetic Field. <i>Transactions of the Materials Research Society of Japan</i> , 2013 , 38, 673-676	0.2	3
107	Characterization of Shear Deformation Based on In-situ Observation of Deformation in Semi-Solid Al-Cu Alloys and Water-Particle Mixture. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2013 , 99, 141-148	0.5	2
106	Solidification of Al ₂ O ₃ /Mg eutectic composites with off-metastable eutectic composition from undercooled melt produced by melting Al ₂ O ₃ /Mg eutectics. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 2137-2143	6	5
105	High Temperature Characteristics of Unidirectionally Solidified Al ₂ O ₃ /Mg Eutectic Composites with a Novel Microstructure. <i>Materials Science Forum</i> , 2012 , 706-709, 246-251	0.4	5
104	Massive transformation from β phase to α phase in Fe-C alloys and strain induced in solidifying shell. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012 , 33, 012036	0.4	31
103	Growth orientations and mechanical properties of Cu ₆ Sn ₅ and (Cu,Ni) ₆ Sn ₅ on poly-crystalline Cu. <i>Journal of Alloys and Compounds</i> , 2012 , 536, 38-46	5.7	41
102	In Situ Study of the Altering Globule Packing-Density during Semisolid Alloy Deformation. <i>Solid State Phenomena</i> , 2012 , 192-193, 185-190	0.4	
101	Synchrotron radiography of direct-shear in semi-solid alloys. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012 , 27, 012086	0.4	6
100	Real Time Synchrotron X-Ray Imaging for Nucleation and Growth of Cu ₆ Sn ₅ in Sn-7Cu-0.05Ni High Temperature Lead-Free Solder Alloys. <i>Advanced Materials Research</i> , 2012 , 626, 200-204	0.5	6
99	In-situobservation of peritectic solidification in Sn-Cd and Fe-C alloys. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012 , 27, 012084	0.4	24

98	Real-Time Radiographic Observation of Solidification Behavior of Al–Si–Cu Casting Alloys with the Variation of Iron Content. <i>Materials Transactions</i> , 2012 , 53, 374-379	1.3	16
97	Macroscopic modelling of semisolid deformation for considering segregation bands induced by shear deformation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012 , 33, 012053	0.4	4
96	Direct Observation of Shear Deformation in Semi-solid Alloys Using X-ray Imaging. <i>Materia Japan</i> , 2012 , 51, 561-568	0.1	1
95	Fabrication of Al ₂ O ₃ –YAG Equilibrium Eutectic Composites via Transformation from Fine Al ₂ O ₃ and YAP Powder Mixtures. <i>Materials Transactions</i> , 2012 , 53, 1124-1129	1.3	2
94	Development of X-ray Imaging for Observing Solidification of Carbon Steels. <i>ISIJ International</i> , 2011 , 51, 402-408	1.7	89
93	?????????????????????????????. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2011 , 61, 736-742	0.3	3
92	Direct observation of deformation in semi-solid carbon steel. <i>Scripta Materialia</i> , 2011 , 64, 1129-1132	5.6	68
91	Granular deformation mechanisms in semi-solid alloys. <i>Acta Materialia</i> , 2011 , 59, 4933-4943	8.4	79
90	In situ investigation of unidirectional solidification in Sn _{0.7} Cu and Sn _{0.7} Cu _{0.06} Ni. <i>Acta Materialia</i> , 2011 , 59, 4043-4054	8.4	48
89	Synchrotron Micro-XRF Measurements of Trace Element Distributions in BGA Type Solders and Solder Joints. <i>Transactions of the Japan Institute of Electronics Packaging</i> , 2010 , 3, 40-46	0.3	12
88	Derivation of Interatomic Potentials from Ab-initio Calculations for Molecular Dynamics Simulations of NaXCo ₂ . <i>Transactions of the Materials Research Society of Japan</i> , 2010 , 35, 205-208	0.2	7
87	Morphological Variation of Fe/Cr-Rich Intermetallic Phase in Recycled Al-Si Alloy as a Function of Solidification Rate: Time-Resolved Radiography. <i>Materials Science Forum</i> , 2010 , 654-656, 974-977	0.4	11
86	High Temperature Characteristics of Unidirectionally Solidified Eutectic Ceramic Composites and some Potential Applications. <i>Materials Science Forum</i> , 2010 , 638-642, 997-1002	0.4	8
85	Regular Structure Formation of Hypermonotectic Al-In Alloys. <i>Materials Science Forum</i> , 2010 , 649, 131-136	4	4
84	The role of trace element segregation in the eutectic modification of hypoeutectic AlBi alloys. <i>Journal of Alloys and Compounds</i> , 2010 , 489, 415-420	5.7	117
83	Does reduced fluid flow alter Fe content of NdBeB ingots?. <i>Journal of Alloys and Compounds</i> , 2010 , 493, L8-L11	5.7	4
82	Numerical Analyses of Effectiveness of Magnetic Field on Variant Selection in FePd by Phase Field Modeling. <i>ISIJ International</i> , 2010 , 50, 1908-1913	1.7	5
81	Selective dissolution of nanolamellar Ti ₃ Al alloy single crystals. <i>Acta Materialia</i> , 2010 , 58, 2876-2886	2.2	22

80	Effect of Ionic Radius and Resultant Two-Dimensionality of Phonons on Thermal Conductivity in $M \times \text{CoO}_2$ ($M = \text{Li, Na, K}$) by Perturbed Molecular Dynamics. <i>Journal of Electronic Materials</i> , 2010 , 39, 1439-1445	1.9	9
79	In-situ Observation of Sn alloy solidification at SPring-8. <i>Yosetsu Gakkai Shi/Journal of the Japan Welding Society</i> , 2009 , 78, 600-603	0.1	2
78	Three-dimensional alignment of FeSi_2 with orthorhombic symmetry by an anisotropic magnetic field. <i>Journal of Physics: Conference Series</i> , 2009 , 165, 012021	0.3	8
77	Chain structure in the unidirectionally solidified $\text{Al}_2\text{O}_3\text{-YAG-ZrO}_2$ eutectic composite. <i>Journal of Crystal Growth</i> , 2009 , 311, 3765-3770	1.6	12
76	In situ observation of solidification phenomena in Al-Cu and Fe-Bi-Al alloys. <i>International Journal of Cast Metals Research</i> , 2009 , 22, 15-21	1	68
75	Formation and microstructure of $\text{Al}_2\text{O}_3\text{-YAG}$ eutectic ceramics by phase transformation from metastable system to equilibrium system. <i>Journal of Physics: Conference Series</i> , 2009 , 165, 012006	0.3	4
74	Crystal growth in the bulk-metallic-glass Zr-based alloys by using the DC + AC levitation method. <i>Journal of Physics: Conference Series</i> , 2009 , 144, 012056	0.3	1
73	Glassy solidification criterion of $\text{Zr}_{50}\text{Cu}_{40}\text{Al}_{10}$ alloy. <i>Journal of Physics: Conference Series</i> , 2009 , 144, 012044	0.3	4
72	Undercooling and rapid solidification of $\text{Cu}_{84}\text{Co}_{16}$ alloys under a static magnetic field. <i>Journal of Physics: Conference Series</i> , 2009 , 144, 012117	0.3	9
71	Reduced droplet coarsening in electromagnetically levitated and phase-separated Cu-Co alloys by imposition of a static magnetic field. <i>Scripta Materialia</i> , 2008 , 59, 1002-1005	5.6	31
70	In situ observation of nucleation, fragmentation and microstructure evolution in Sn-Bi and Al-Cu alloys. <i>International Journal of Cast Metals Research</i> , 2008 , 21, 125-128	1	44
69	Effect of the Melt Flow on the Solidified Structure of Middle Carbon Steel by Means of the Levitation Method Using Alternating and Static Magnetic Fields. <i>ISIJ International</i> , 2007 , 47, 612-618	1.7	14
68	Recent Progress of EPM in Steelmaking, Casting, and Solidification Processing. <i>ISIJ International</i> , 2007 , 47, 619-626	1.7	28
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