

# Do Hyang Kim

## List of Publications by Citations

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146  
papers

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151  
ext. papers

4,453  
ext. citations

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5.21  
L-index

#	Paper	IF	Citations
146	Metalorganic vapor-phase epitaxial growth of vertically well-aligned ZnO nanorods. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 4232-4234	3.4	1014
145	Pulsed laser deposition of epitaxial yttrium iron garnet films with low Gilbert damping and bulk-like magnetization. <i>APL Materials</i> , <b>2014</b> , 2, 106102	5.7	137
144	Fabrication of ternary MgCuPd bulk metallic glass with high glass-forming ability under air atmosphere. <i>Journal of Materials Research</i> , <b>2003</b> , 18, 1502-1504	2.5	130
143	Design of Bulk metallic glasses with high glass forming ability and enhancement of plasticity in metallic glass matrix composites: A review. <i>Metals and Materials International</i> , <b>2005</b> , 11, 19-27	2.4	118
142	Ni-based bulk amorphous alloys in the NiTiZr(Si, Sn) system. <i>Journal of Materials Research</i> , <b>2000</b> , 15, 2425-2430	2.5	102
141	Effect of Y, Sr, and Nd additions on the microstructure and microfracture mechanism of squeeze-cast AZ91-X magnesium alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>1998</b> , 29, 1221-1235	2.3	99
140	Formation of CaMgZn bulk glassy alloy by casting into cone-shaped copper mold. <i>Journal of Materials Research</i> , <b>2004</b> , 19, 685-688	2.5	99
139	Thickness and power dependence of the spin-pumping effect in Y3Fe5O12/Pt heterostructures measured by the inverse spin Hall effect. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	90
138	Correlation between fragility and glass-forming ability/plasticity in metallic glass-forming alloys. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 031907	3.4	86
137	High-strength bulk Al-based bimodal ultrafine eutectic composite with enhanced plasticity. <i>Journal of Materials Research</i> , <b>2009</b> , 24, 2605-2609	2.5	85
136	Plasticity in Ni59Zr20Ti16Si2Sn3 metallic glass matrix composites containing brass fibers synthesized by warm extrusion of powders. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 2312-2314	3.4	74
135	Modeling deformation behavior of CuZrAl bulk metallic glass matrix composites. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 101906	3.4	73
134	Formation of a bimodal eutectic structure in TiBeSn alloys with enhanced plasticity. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 141901	3.4	70
133	Effect of Ag Addition on the Improvement of Glass-forming Ability and Plasticity of MgCuPd Bulk Metallic Glass. <i>Journal of Materials Research</i> , <b>2005</b> , 20, 2379-2385	2.5	67
132	Propagation of shear bands and accommodation of shear strain in the Fe56Nb4Al40 ultrafine eutectic-dendrite composite. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 091910	3.4	57
131	Development of quaternary FeBNb bulk glassy alloys with high glass-forming ability. <i>Journal of Materials Research</i> , <b>2007</b> , 22, 471-477	2.5	56
130	Ti-Based Bulk Metallic Glasses with High Specific Strength. <i>Materials Transactions</i> , <b>2004</b> , 45, 595-598	1.3	54

129	Synthesis of Ni-based bulk metallic glass matrix composites containing ductile brass phase by warm extrusion of gas atomized powders. <i>Journal of Materials Research</i> , <b>2003</b> , 18, 2101-2108	2.5	51
128	Enhancement of plastic deformability in Fe-Ni-Nb bulk glassy alloys by controlling the Ni-to-Fe concentration ratio. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 031905	3.4	50
127	Effect of Temperature and Humidity on the Degradation Rate of Multicrystalline Silicon Photovoltaic Module. <i>International Journal of Photoenergy</i> , <b>2013</b> , 2013, 1-9	2.1	46
126	Influence of a bimodal eutectic structure on the plasticity of a (Ti <sub>70.5</sub> Fe <sub>29.5</sub> ) <sub>91</sub> Sn <sub>9</sub> ultrafine composite. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 201906	3.4	40
125	Formation of Ductile Cu-Based Bulk Metallic Glass Matrix Composite by Ta Addition. <i>Materials Transactions</i> , <b>2003</b> , 44, 2224-2227	1.3	39
124	Enhancement of oxidation resistance of the supercooled liquid in Cu-Zr-based metallic glass by forming an amorphous oxide layer with high thermal stability. <i>Corrosion Science</i> , <b>2013</b> , 66, 1-4	6.8	37
123	Bulk glass formation in the Ni-Zr-Ti-Nb-Si-Bn alloy system. <i>Journal of Materials Research</i> , <b>2004</b> , 19, 2221-2225	2.5	37
122	Stability and phase transformations of icosahedral phase in a 41.5Zr41.5Ti17Ni alloy. <i>Journal of Materials Research</i> , <b>2000</b> , 15, 892-897	2.5	37
121	Effect of thermal stability of the amorphous substrate on the amorphous oxide growth on Zr-Al-(Cu,Ni) metallic glass surfaces. <i>Corrosion Science</i> , <b>2013</b> , 73, 1-6	6.8	36
120	Micro-to-nano-scale deformation mechanisms of a bimodal ultrafine eutectic composite. <i>Scientific Reports</i> , <b>2014</b> , 4, 6500	4.9	36
119	Fabrication and Mechanical Properties of Mg <sub>65</sub> Cu <sub>15</sub> Ag <sub>5</sub> Pd <sub>5</sub> Gd <sub>10</sub> Bulk Metallic Glass. <i>Materials Transactions</i> , <b>2003</b> , 44, 2141-2144	1.3	36
118	Correlation between plasticity and fragility in Mg-based bulk metallic glasses with modulated heterogeneity. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 023520	2.5	34
117	High strength Ni-Zr binary ultrafine eutectic-dendrite composite with large plastic deformability. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 031913	3.4	34
116	Mg-rich Mg-Ni-Gd ternary bulk metallic glasses with high compressive specific strength and ductility. <i>Journal of Materials Research</i> , <b>2007</b> , 22, 334-338	2.5	33
115	Comparison of Al-Cu-Fe quasicrystalline particle reinforced Al composites fabricated by conventional casting and extrusion. <i>Journal of Materials Science</i> , <b>2001</b> , 36, 963-970	4.3	33
114	Ductile Ti-Based Bulk Metallic Glasses with High Specific Strength. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2011</b> , 42, 1456-1462	2.3	32
113	Bulk Glass Formation in Mg-Cu-Ag-Y-Gd Alloy. <i>Materials Transactions</i> , <b>2004</b> , 45, 2474-2477	1.3	32
112	Icosahedral quasicrystalline and hexagonal approximant phases in the Al-Mn-Be alloy system. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>2002</b> , 82, 1495-1508		32

111	Local microstructure evolution at shear bands in metallic glasses with nanoscale phase separation. <i>Scientific Reports</i> , <b>2016</b> , 6, 25832	4.9	32
110	Origin of the Simultaneous Improvement of Strength and Plasticity in Ti-based Bulk Metallic Glass Matrix Composites. <i>Journal of Materials Research</i> , <b>2005</b> , 20, 2474-2479	2.5	31
109	The wetting, reaction and bonding of silicon nitride by Cu-Ti alloys. <i>Journal of Materials Science</i> , <b>1991</b> , 26, 3223-3234	4.3	30
108	Designing Zr-Cu-Co-Al Bulk Metallic Glasses with Phase Separation Mediated Plasticity. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2012</b> , 43, 2598-2603	2.3	29
107	Formation, and mechanical and magnetic properties of bulk ferromagnetic Fe-Nb-B-Y-(Zr, Co) alloys. <i>Journal of Materials Research</i> , <b>2006</b> , 21, 1019-1024	2.5	29
106	Oxidation resistance of the supercooled liquid in Cu <sub>50</sub> Zr <sub>50</sub> and Cu <sub>46</sub> Zr <sub>46</sub> Al <sub>8</sub> metallic glasses. <i>Journal of Materials Research</i> , <b>2012</b> , 27, 1178-1186	2.5	28
105	Improving the plasticity of a high strength Fe <sub>80</sub> Mn <sub>20</sub> ultrafine composite by introduction of an immiscible element. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 251915	3.4	26
104	Influence of heterogeneities with different length scale on the plasticity of Fe-base ultrafine eutectic alloys. <i>Journal of Materials Research</i> , <b>2008</b> , 23, 2003-2008	2.5	25
103	Suppression of discontinuous precipitation in AZ91 by addition of Sn. <i>Metals and Materials International</i> , <b>2014</b> , 20, 99-103	2.4	24
102	Enhancement of plasticity in Ti-rich Ti <sub>70</sub> Zr <sub>10</sub> Be <sub>10</sub> Ni <sub>10</sub> Ma bulk glassy alloy via introducing the structural inhomogeneity. <i>Journal of Materials Research</i> , <b>2008</b> , 23, 2984-2989	2.5	22
101	Exploiting metallic glasses for 19.6% efficient back contact solar cell. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 064106	3.4	21
100	Phase separation in monotectic alloys as a route for liquid state fabrication of composite materials. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 8360-8366	4.3	21
99	Abnormal behavior of supercooled liquid region in bulk-forming metallic glasses. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 053515	2.5	21
98	Oxidation behavior of TiCu binary metallic glass. <i>Corrosion Science</i> , <b>2015</b> , 99, 304-312	6.8	20
97	Capillary flow of amorphous metal for high performance electrode. <i>Scientific Reports</i> , <b>2013</b> , 3, 2185	4.9	20
96	Tensile necking and enhanced plasticity of cold rolled Ti dendrite reinforced Ti-based bulk metallic glass matrix composite. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 579, 253-258	5.7	20
95	Crack evolution in bulk metallic glasses. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 103518	2.5	20
94	Formation and Stability of Quasicrystalline and Hexagonal Approximant Phases in an AlMnBe Alloy. <i>Journal of Materials Research</i> , <b>2002</b> , 17, 1671-1677	2.5	20

93	Investigation of the magnetic properties of insulating thin films using the longitudinal spin Seebeck effect. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 17C731	2.5	19
92	Mechanical relaxations of a (Zr <sub>77.5</sub> Ti <sub>22.5</sub> ) <sub>55</sub> (Ni <sub>48</sub> Cu <sub>52</sub> ) <sub>21.25</sub> Be <sub>23.75</sub> amorphous alloy studied using dynamic mechanical analysis. <i>Metals and Materials International</i> , <b>2007</b> , 13, 447-453	2.4	19
91	Kinetically controlled way to create highly uniform mono-dispersed ZnO sub-microrods for electronics. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 20719		18
90	Correlation between volumetric change and glass-forming ability of metallic glass-forming alloys. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 091915	3.4	18
89	Effect of Titanium on Glass-forming Ability of Cu-Zr-Al Alloys. <i>Materials Transactions</i> , <b>2003</b> , 44, 1647-1650.	3	18
88	Thermal stability of amorphous oxide in Al <sub>87</sub> Ni <sub>3</sub> Y <sub>10</sub> metallic glass. <i>Corrosion Science</i> , <b>2013</b> , 77, 1-5	6.8	17
87	Crystallization Kinetics of Fe <sub>76.5</sub> C <sub>6.0</sub> Si <sub>3.3</sub> B <sub>5.5</sub> P <sub>8.7</sub> Cu <sub>x</sub> (x = 0, 0.5, and 1 at. pct) Bulk Amorphous Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2015</b> , 46, 2415-2421	2.3	17
86	Application of spinodal decomposition to produce metallic glass matrix composite with simultaneous improvement of strength and plasticity. <i>Metals and Materials International</i> , <b>2009</b> , 15, 193-196	2.4	17
85	Replacement of oxide glass with metallic glass for Ag screen printing metallization on Si emitter. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 222112	3.4	17
84	Improvement of plasticity by tailoring combination of constituent elements in Ti-rich Ti <sub>70</sub> Zr <sub>10</sub> Be <sub>10</sub> Cu <sub>10</sub> Ni bulk metallic glasses. <i>Journal of Materials Research</i> , <b>2007</b> , 22, 3440-3447	2.5	17
83	Estimation of critical cooling rates for glass formation in bulk metallic glasses through non-isothermal thermal analysis. <i>Metals and Materials International</i> , <b>2005</b> , 11, 1-9	2.4	17
82	Shear band formation and mechanical properties of cold-rolled bulk metallic glass and metallic glass matrix composite. <i>Journal of Materials Science</i> , <b>2005</b> , 40, 1937-1941	4.3	17
81	Two stage oxidation in epitaxial Ni (111)/GaN (0001) thin films. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 2139-2141	3.4	16
80	Fabrication and mechanical properties of WC particulate reinforced Cu <sub>47</sub> Ti <sub>33</sub> Zr <sub>11</sub> Ni <sub>6</sub> Sn <sub>2</sub> Si <sub>1</sub> bulk metallic glass matrix composites. <i>Journal of Materials Science</i> , <b>2005</b> , 40, 6127-6130	4.3	16
79	Precipitation of the icosahedral phase in amorphous Zr <sub>65</sub> Cu <sub>17.5</sub> Al <sub>7.5</sub> Ni <sub>10</sub> Ag <sub>x</sub> (x=0,2.5, 5, 7.5 and 10) alloys. <i>Metals and Materials International</i> , <b>2001</b> , 7, 187-190	2.4	16
78	Effects of atomic size difference and heat of mixing parameters on the local structure of a model metallic glass system. <i>Metals and Materials International</i> , <b>2014</b> , 20, 105-111	2.4	15
77	Deformation Behavior of Ti <sub>70</sub> Zr <sub>10</sub> Ni <sub>10</sub> Cu <sub>10</sub> Be Metallic Glass and Composite in the Supercooled Liquid Region. <i>Journal of Materials Research</i> , <b>2004</b> , 19, 937-942	2.5	15
76	Microwave assisted synthesis of nanocrystalline Fe-phosphates electrode materials and their electrochemical properties. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2008</b> , 8, 5376-9	1.3	14

75	Quasicrystalline phase formation in Al <sub>62</sub> Cu <sub>22.5</sub> Fe <sub>12.5</sub> and Al <sub>55</sub> Cu <sub>22.5</sub> Fe <sub>12.5</sub> Be <sub>7</sub> alloys. <i>Journal of Materials Research</i> , <b>2001</b> , 16, 1535-1540	2.5	14
74	Oxidation induced amorphous stabilization of the subsurface region in Zr-Cu metallic glass. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 031604	3.4	13
73	Remarkably stable amorphous metal oxide grown on Zr-Cu-Be metallic glass. <i>Scientific Reports</i> , <b>2015</b> , 5, 18196	4.9	13
72	Enhancement of plasticity in Ti-based metallic glass matrix composites by controlling characteristic and volume fraction of primary phase. <i>Journal of Materials Research</i> , <b>2010</b> , 25, 2183-2191	2.5	13
71	Oxidation Kinetics in Iron and Stainless Steel: An in Situ X-ray Reflectivity Study. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 20213-20218	3.4	13
70	Evaluation of the mechanical properties of conventionally-cast Al matrix composites reinforced by quasicrystalline Al-Cu-Fe particles using continuous ball indentation technique. <i>Metals and Materials International</i> , <b>2000</b> , 6, 415-422		13
69	Formation of crystalline phase in the glass matrix of Zr-Co-Al glass-matrix composites and its effect on their mechanical properties. <i>Metals and Materials International</i> , <b>2017</b> , 23, 1216-1222	2.4	12
68	Effects of rolling condition on the tensile properties of Mg-MM-Sn-Al-Zn alloy. <i>Metals and Materials International</i> , <b>2009</b> , 15, 337-343	2.4	12
67	Precipitation of Stable Icosahedral Phase in Ti-Based Amorphous Alloys. <i>Materials Transactions</i> , <b>2003</b> , 44, 1978-1981	1.3	12
66	Effect of Yttrium Addition on Thermal Stability and Glass Forming Ability in Fe-TM (Mn, Mo, Ni)-B Ternary Alloys. <i>Materials Transactions</i> , <b>2004</b> , 45, 2770-2775	1.3	12
65	Precipitation of icosahedral phase from amorphous Zr <sub>65</sub> Cu <sub>17.5</sub> Al <sub>7.5</sub> Ni <sub>10</sub> Ag <sub>x</sub> (x = 0, 5) alloys. <i>Journal of Materials Research</i> , <b>2001</b> , 16, 1311-1317	2.5	12
64	Effect of Sn Addition on the Precipitation Behavior in AZ91 Magnesium Alloy. <i>Materials Transactions</i> , <b>2017</b> , 58, 963-966	1.3	11
63	Enhancement of Mechanical Properties of Extruded Mg <sub>90</sub> Al <sub>10</sub> Zn <sub>1</sub> MM <sub>0.7</sub> Ca <sub>0.3</sub> Mn Alloy Through Pre-aging Treatment. <i>Metals and Materials International</i> , <b>2018</b> , 24, 391-399	2.4	11
62	The influence of in situ formed precipitates on the plasticity of Fe-Nb-B-Cu bulk metallic glasses. <i>Journal of Materials Research</i> , <b>2011</b> , 26, 2080-2086	2.5	11
61	Texture Modification by Addition of Ca in Mg&ndash;Zn&ndash;Y Alloy. <i>Materials Transactions</i> , <b>2012</b> , 53, 991-994	1.3	11
60	The Effect of In Addition on the Glass-Forming Ability in Cu-Ti-Zr-Ni-Si Metallic Glasses. <i>Materials Transactions</i> , <b>2004</b> , 45, 2693-2696	1.3	11
59	A simple model for determining alloy composition with large glass forming ability in ternary alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2001</b> , 32, 200-202	2.3	11
58	Enhancement of electrical conductivity of thick silver electrode using a tailored amorphous alloy. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 084104	3.4	9

57	Design of ultrafine eutectic-dendrite composites with enhanced mechanical properties in Fe-based alloy. <i>Metals and Materials International</i> , <b>2013</b> , 19, 667-671	2.4	8
56	Thermal decomposition of silver acetate in silver paste for solar cell metallization: An effective route to reduce contact resistance. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 063903	3.4	8
55	Electron beam induced epitaxial crystallization in a conducting and insulating a-LaAlO <sub>3</sub> /SrTiO <sub>3</sub> system. <i>RSC Advances</i> , <b>2017</b> , 7, 40279-40285	3.7	8
54	Formation of amorphous oxide in Al <sub>82</sub> Ni <sub>13</sub> Zr <sub>5</sub> and Al <sub>88</sub> Ni <sub>7</sub> Ca <sub>5</sub> alloys. <i>Corrosion Science</i> , <b>2014</b> , 88, 209-214	2.4	7
53	Quasicrystal-reinforced Mg alloys. <i>Science and Technology of Advanced Materials</i> , <b>2014</b> , 15, 024801	7.1	7
52	Rate-dependent serrated flow and plastic deformation in TiZrBeCuNi bulk amorphous alloy during nanoindentation. <i>Science and Technology of Advanced Materials</i> , <b>2008</b> , 9, 045004	7.1	7
51	The origin of a two-stage endothermic reaction in Zr <sub>36</sub> Ti <sub>24</sub> Be <sub>40</sub> metallic glass. <i>Metals and Materials International</i> , <b>2008</b> , 14, 553-557	2.4	7
50	Solidification and Microstructure Control of Mg-rich Alloys in the Mg-Zn-Y Ternary System. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 643, 251		7
49	Microstructural evolution of sputtered ZnO thin films with rapid thermal annealing. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2015</b> , 26, 7860-7866	2.1	6
48	Microstructure Evolution During Solidification of Cu <sub>47</sub> Zr <sub>33</sub> Ti <sub>20</sub> Alloy Forming B <sub>2</sub> Phase Particles Embedded in a Glassy Matrix. <i>Metals and Materials International</i> , <b>2018</b> , 24, 926-933	2.4	6
47	Surface and interface studies of RF sputtered HfO <sub>2</sub> thin films with working pressure and gas flow ratio. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2015</b> , 26, 6025-6031	2.1	6
46	Improving the Mechanical Properties of Fe-Nb-(Ni-Mn) Dendrite-Ultrafine Eutectic Composites via Controlling the Primary Phase Features. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2012</b> , 43, 2680-2686	2.3	6
45	Development of thermal plastic forming process for Ti <sub>35</sub> Zr <sub>15</sub> Ni <sub>35</sub> Cu <sub>15</sub> metallic glass exhibiting superelasticity after crystallization. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 777, 139089	5.3	5
44	Phase formation and mechanical properties of Cu-Zr-Ti bulk metallic glass composites. <i>Metals and Materials International</i> , <b>2016</b> , 22, 1026-1032	2.4	5
43	Glass Forming Ability and Mechanical Properties of Misch Metal-Based Bulk Metallic Glass Matrix Composite. <i>Materials Transactions</i> , <b>2004</b> , 45, 1395-1399	1.3	5
42	Development of nanocrystals in an amorphous alloy Zr <sub>47</sub> Ni <sub>30</sub> Ti <sub>23</sub> . <i>Journal of Materials Science</i> , <b>2001</b> , 36, 5101-5104	4.3	5
41	Effect of Metallic Glass Particle Size on the Contact Resistance of Ag/Metallic Glass Electrode. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2015</b> , 46, 2443-2448	2.3	4
40	Effect of minor addition of Zr on the oxidation behavior of Ti-Cu metallic glasses. <i>Metals and Materials International</i> , <b>2016</b> , 22, 229-235	2.4	4

39	Solid-state phase separation in Zr <sub>40</sub> Al <sub>10</sub> Co metallic glass. <i>Journal of Materials Research</i> , <b>2008</b> , 23, 828-832	2.5	4
38	X-ray photochemical wet etching of n-Si (100) in hydrofluoric solution. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 054104	3.4	4
37	Possibilities of producing single phase kilogram scale Al <sub>70</sub> Ni <sub>13</sub> Co <sub>13</sub> Si <sub>4</sub> alloy by conventional casting. <i>Journal of Materials Science Letters</i> , <b>2000</b> , 19, 363-365		4
36	Single Crystal Solidification of Undercooled Single-phase Alloys. <i>Materials Transactions, JIM</i> , <b>2000</b> , 41, 1569-1574		4
35	Synthesis of porosity controllable nanoporous silicon with a self-coated nickel layer for lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2021</b> , 495, 229802	8.9	4
34	Effect of aging time and temperature on the aging behavior in Sn containing AZ91 alloy. <i>Metals and Materials International</i> , <b>2017</b> , 23, 308-312	2.4	3
33	Influence of combinatory effects of STEM setups on the sensitivity of differential phase contrast imaging. <i>Micron</i> , <b>2019</b> , 127, 102755	2.3	3
32	Transport and switching behaviors in magnetic tunnel junctions consisting of CoFeB/FeNiSiB hybrid free layers. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 093913	2.5	3
31	Effect of Carbon Addition on the Microstructural Evolution and Mechanical Properties in Hypo-Eutectic Fe-Zr(-Nb) Alloys. <i>Materials Transactions</i> , <b>2010</b> , 51, 799-802	1.3	3
30	Synthesis and characterization of nanometer-sized Ti-based amorphous powders. <i>Journal of Materials Research</i> , <b>2007</b> , 22, 1754-1758	2.5	3
29	Spontaneous formation of the B2 phase from a decagonal quasicrystal under reduced constraint. <i>Journal of Materials Science</i> , <b>2006</b> , 41, 6081-6086	4.3	3
28	Fracture mode for self-fragmentation of carbon contaminated icosahedral Al-Cu-Fe quasicrystalline phase. <i>Journal of Materials Science Letters</i> , <b>2001</b> , 20, 1281-1284		3
27	Enhancement of the icosahedral quasicrystalline phase forming ability with Be addition to an Al <sub>62.5</sub> Cu <sub>25.5</sub> Fe <sub>12</sub> alloy. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 643, 261		3
26	Application of static fatigue testing to the behavior of absorbable sutures. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2017</b> , 74, 232-235	4.1	2
25	Influence of Al on glass forming ability and nanocrystallization behavior of cast-iron based bulk amorphous alloy. <i>Journal of Materials Research</i> , <b>2015</b> , 30, 818-824	2.5	2
24	Optimum Combination of Thermoplastic Formability and Electrical Conductivity in Al <sub>80</sub> Ni <sub>20</sub> Metallic Glass. <i>Metals and Materials International</i> , <b>2018</b> , 24, 1256-1261	2.4	2
23	Generic model of superexchange effects in magnetoelastic oxides. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 17A927	2.5	2
22	Orthorhombic approximant phases and their relation to quasicrystals in mechanically alloyed Al <sub>10</sub> Cu <sub>10</sub> Be <sub>80</sub> alloys. <i>Philosophical Magazine Letters</i> , <b>2006</b> , 86, 425-433	1	2

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