

Do Hyang Kim

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.

146
papers

4,221
citations

32
h-index

61
g-index

151
ext. papers

4,453
ext. citations

2.9
avg, IF

5.21
L-index

#	Paper	IF	Citations
146	Synthesis of porosity controllable nanoporous silicon with a self-coated nickel layer for lithium-ion batteries. <i>Journal of Power Sources</i> , 2021 , 495, 229802	8.9	4
145	Development of thermal plastic forming process for Ti ₃₅ Zr ₁₅ Ni ₃₅ Cu ₁₅ metallic glass exhibiting superelasticity after crystallization. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 777, 139089	5.3	5
144	Effects of I- and W-Phases Under Identical Conditions on Microstructure and Mechanical Properties of As-Cast Mg ₇₀ Zn ₃₀ Alloys at Room and Elevated Temperatures. <i>Metals and Materials International</i> , 2020 , 1	2.4	0
143	Influence of combinatory effects of STEM setups on the sensitivity of differential phase contrast imaging. <i>Micron</i> , 2019 , 127, 102755	2.3	3
142	Atomic and Electronic Reconstruction at the α -LAO/STO Interface by E-Beam Induced Crystallization. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1894-1895	0.5	
141	Enhancement of Mechanical Properties of Extruded Mg ₉₀ Al ₁₀ Zn ₁₀ MM _{0.7} CaO _{0.3} Mn Alloy Through Pre-aging Treatment. <i>Metals and Materials International</i> , 2018 , 24, 391-399	2.4	11
140	Optimum Combination of Thermoplastic Formability and Electrical Conductivity in Al ₈₀ Ni ₂₀ Metallic Glass. <i>Metals and Materials International</i> , 2018 , 24, 1256-1261	2.4	2
139	Microstructure Evolution During Solidification of Cu ₅₀ Zr ₅₀ Ti Alloy Forming B2 Phase Particles Embedded in a Glassy Matrix. <i>Metals and Materials International</i> , 2018 , 24, 926-933	2.4	6
138	Effect of Zr Addition on the Corrosion Behavior of Extruded Mg Alloys in NaCl Solution. <i>Materials Transactions</i> , 2018 , 59, 499-502	1.3	1
137	Effect of aging time and temperature on the aging behavior in Sn containing AZ91 alloy. <i>Metals and Materials International</i> , 2017 , 23, 308-312	2.4	3
136	Application of static fatigue testing to the behavior of absorbable sutures. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017 , 74, 232-235	4.1	2
135	Effect of Sn Addition on the Precipitation Behavior in AZ91 Magnesium Alloy. <i>Materials Transactions</i> , 2017 , 58, 963-966	1.3	11
134	Electron beam induced epitaxial crystallization in a conducting and insulating α -LaAlO ₃ /SrTiO ₃ system. <i>RSC Advances</i> , 2017 , 7, 40279-40285	3.7	8
133	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> , 2017 , 23, 1216-1222	2.4	12
132	Phase formation and mechanical properties of Cu-Zr-Ti bulk metallic glass composites. <i>Metals and Materials International</i> , 2016 , 22, 1026-1032	2.4	5
131	Effect of minor addition of Zr on the oxidation behavior of Ti-Cu metallic glasses. <i>Metals and Materials International</i> , 2016 , 22, 229-235	2.4	4
130	Effect of Dealloying Condition on the Formation of Nanoporous Structure in Melt-Spun Al ₆₀ Ge ₃₀ Mn ₁₀ Alloy. <i>Applied Microscopy</i> , 2016 , 46, 160-163	1.1	1

129	Interfacial electrical conductivity controlled crystallization of amorphous LaAlO ₃ under electron-beam irradiation. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1580-1581	0.5	
128	Local microstructure evolution at shear bands in metallic glasses with nanoscale phase separation. <i>Scientific Reports</i> , 2016 , 6, 25832	4.9	32
127	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> , 2015 , 46, 2443-2448	2.3	4
126	Influence of Al on glass forming ability and nanocrystallization behavior of cast-iron based bulk amorphous alloy. <i>Journal of Materials Research</i> , 2015 , 30, 818-824	2.5	2
125	Oxidation behavior of TiCu binary metallic glass. <i>Corrosion Science</i> , 2015 , 99, 304-312	6.8	20
124	Microstructural evolution of sputtered ZnO thin films with rapid thermal annealing. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 7860-7866	2.1	6
123	High thermal stability of the amorphous oxide in Ti _{44.5} Cu _{44.5} Zr ₇ Be ₄ metallic glass. <i>AIP Advances</i> , 2015 , 5, 117202	1.5	1
122	Remarkably stable amorphous metal oxide grown on Zr-Cu-Be metallic glass. <i>Scientific Reports</i> , 2015 , 5, 18196	4.9	13
121	Effects of Heat Treatment on Bio-Corrosion Properties of Mg-Zn-xMn (x= 0.5,1.0, and 1.5 wt.%) Alloys as Biodegradable Materials 2015 , 407-411		
120	Phase Evaluation of Sr and CaO Added Mg-Al-Si Alloys 2015 , 377-381		
119	Thickness and power dependence of the spin-pumping effect in Y ₃ Fe ₅ O ₁₂ /Pt heterostructures measured by the inverse spin Hall effect. <i>Physical Review B</i> , 2015 , 91,	3.3	90
118	Surface and interface studies of RF sputtered HfO ₂ thin films with working pressure and gas flow ratio. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 6025-6031	2.1	6
117	Crystallization Kinetics of Fe _{76.5} Co _{6.0} Si _{3.3} B _{5.5} P _{8.7} Cu _x (x = 0, 0.5, and 1 at. pct) Bulk Amorphous Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 2415-2421	2.3	17
116	Oxidation induced amorphous stabilization of the subsurface region in Zr-Cu metallic glass. <i>Applied Physics Letters</i> , 2014 , 104, 031604	3.4	13
115	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> , 2014 , 20, 105-111	2.4	15
114	Investigation of the magnetic properties of insulating thin films using the longitudinal spin Seebeck effect. <i>Journal of Applied Physics</i> , 2014 , 115, 17C731	2.5	19
113	Suppression of discontinuous precipitation in AZ91 by addition of Sn. <i>Metals and Materials International</i> , 2014 , 20, 99-103	2.4	24
112	Formation of amorphous oxide in Al ₈₂ Ni ₁₃ Zr ₅ and Al ₈₈ Ni ₇ Ca ₅ alloys. <i>Corrosion Science</i> , 2014 , 88, 209-214	2.4	7

111	Micro-to-nano-scale deformation mechanisms of a bimodal ultrafine eutectic composite. <i>Scientific Reports</i> , 2014 , 4, 6500	4.9	36
110	Pulsed laser deposition of epitaxial yttrium iron garnet films with low Gilbert damping and bulk-like magnetization. <i>APL Materials</i> , 2014 , 2, 106102	5.7	137
109	Quasicrystal-reinforced Mg alloys. <i>Science and Technology of Advanced Materials</i> , 2014 , 15, 024801	7.1	7
108	Capillary flow of amorphous metal for high performance electrode. <i>Scientific Reports</i> , 2013 , 3, 2185	4.9	20
107	Design of ultrafine eutectic-dendrite composites with enhanced mechanical properties in Fe-based alloy. <i>Metals and Materials International</i> , 2013 , 19, 667-671	2.4	8
106	Thermal decomposition of silver acetate in silver paste for solar cell metallization: An effective route to reduce contact resistance. <i>Applied Physics Letters</i> , 2013 , 103, 063903	3.4	8
105	Tensile necking and enhanced plasticity of cold rolled β Ti dendrite reinforced Ti-based bulk metallic glass matrix composite. <i>Journal of Alloys and Compounds</i> , 2013 , 579, 253-258	5.7	20
104	Effect of thermal stability of the amorphous substrate on the amorphous oxide growth on ZrAl(Cu,Ni) metallic glass surfaces. <i>Corrosion Science</i> , 2013 , 73, 1-6	6.8	36
103	Thermal stability of amorphous oxide in Al ₈₇ Ni ₃ Y ₁₀ metallic glass. <i>Corrosion Science</i> , 2013 , 77, 1-5	6.8	17
102	Enhancement of oxidation resistance of the supercooled liquid in Cu ₄₇ Zr-based metallic glass by forming an amorphous oxide layer with high thermal stability. <i>Corrosion Science</i> , 2013 , 66, 1-4	6.8	37
101	Generic model of superexchange effects in magnetoelastic oxides. <i>Journal of Applied Physics</i> , 2013 , 113, 17A927	2.5	2
100	Effect of Temperature and Humidity on the Degradation Rate of Multicrystalline Silicon Photovoltaic Module. <i>International Journal of Photoenergy</i> , 2013 , 2013, 1-9	2.1	46
99	Exploiting metallic glasses for 19.6% efficient back contact solar cell. <i>Applied Physics Letters</i> , 2012 , 101, 064106	3.4	21
98	Phase separation in monotectic alloys as a route for liquid state fabrication of composite materials. <i>Journal of Materials Science</i> , 2012 , 47, 8360-8366	4.3	21
97	Nanocomposites of Aluminum Alloys by Rapid Solidification Processing. <i>Transactions of the Indian Institute of Metals</i> , 2012 , 65, 647-651	1.2	1
96	Kinetically controlled way to create highly uniform mono-dispersed ZnO sub-microrods for electronics. <i>Journal of Materials Chemistry</i> , 2012 , 22, 20719		18
95	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> , 2012 , 43, 2598-2603	3.3	29
94	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> , 2012 , 43, 2680-2686	2.3	6

93	Enhancement of electrical conductivity of thick silver electrode using a tailored amorphous alloy. <i>Applied Physics Letters</i> , 2012 , 101, 084104	3.4	9
92	Transport and switching behaviors in magnetic tunnel junctions consisting of CoFeB/FeNiSiB hybrid free layers. <i>Journal of Applied Physics</i> , 2012 , 111, 093913	2.5	3
91	Texture Modification by Addition of Ca in Mg–Zn–Y Alloy. <i>Materials Transactions</i> , 2012 , 53, 991-994	1.3	11
90	Oxidation resistance of the supercooled liquid in Cu ₅₀ Zr ₅₀ and Cu ₄₆ Zr ₄₆ Al ₈ metallic glasses. <i>Journal of Materials Research</i> , 2012 , 27, 1178-1186	2.5	28
89	Quasicrystal as a Reinforcement Material in Magnesium Alloys. <i>Israel Journal of Chemistry</i> , 2011 , 51, 1176-1184	3.4	184
88	Ductile Ti-Based Bulk Metallic Glasses with High Specific Strength. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011 , 42, 1456-1462	2.3	32
87	The influence of in situ formed precipitates on the plasticity of Fe-Nb-B-Cu bulk metallic glasses. <i>Journal of Materials Research</i> , 2011 , 26, 2080-2086	2.5	11
86	Replacement of oxide glass with metallic glass for Ag screen printing metallization on Si emitter. <i>Applied Physics Letters</i> , 2011 , 98, 222112	3.4	17
85	Abnormal behavior of supercooled liquid region in bulk-forming metallic glasses. <i>Journal of Applied Physics</i> , 2010 , 108, 053515	2.5	21
84	Enhancement of plastic deformability in Fe-Ni-B bulk glassy alloys by controlling the Ni-to-Fe concentration ratio. <i>Applied Physics Letters</i> , 2010 , 96, 031905	3.4	50
83	Improving the plasticity of a high strength Fe-Bi ultrafine composite by introduction of an immiscible element. <i>Applied Physics Letters</i> , 2010 , 97, 251915	3.4	26
82	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> , 2010 , 25, 2183-2191	2.5	13
81	Effect of Carbon Addition on the Microstructural Evolution and Mechanical Properties in Hypo-Eutectic Fe-Zr(-Nb) Alloys. <i>Materials Transactions</i> , 2010 , 51, 799-802	1.3	3
80	Modeling deformation behavior of Cu-Zr-Al bulk metallic glass matrix composites. <i>Applied Physics Letters</i> , 2009 , 95, 101906	3.4	73
79	Crack evolution in bulk metallic glasses. <i>Journal of Applied Physics</i> , 2009 , 106, 103518	2.5	20
78	Application of spinodal decomposition to produce metallic glass matrix composite with simultaneous improvement of strength and plasticity. <i>Metals and Materials International</i> , 2009 , 15, 193-196	2.4	17
77	Effects of rolling condition on the tensile properties of Mg-MM-Sn-Al-Zn alloy. <i>Metals and Materials International</i> , 2009 , 15, 337-343	2.4	12
76	High-strength bulk Al-based bimodal ultrafine eutectic composite with enhanced plasticity. <i>Journal of Materials Research</i> , 2009 , 24, 2605-2609	2.5	85

75	Influence of heterogeneities with different length scale on the plasticity of Fe-base ultrafine eutectic alloys. <i>Journal of Materials Research</i> , 2008 , 23, 2003-2008	2.5	25
74	Formation of a bimodal eutectic structure in TiBeSn alloys with enhanced plasticity. <i>Applied Physics Letters</i> , 2008 , 93, 141901	3.4	70
73	Rate-dependent serrated flow and plastic deformation in TiZrBeCuNi bulk amorphous alloy during nanoindentation. <i>Science and Technology of Advanced Materials</i> , 2008 , 9, 045004	7.1	7
72	Correlation between plasticity and fragility in Mg-based bulk metallic glasses with modulated heterogeneity. <i>Journal of Applied Physics</i> , 2008 , 104, 023520	2.5	34
71	Solid-state phase separation in Zr ₄₀ Ti ₄₀ Co metallic glass. <i>Journal of Materials Research</i> , 2008 , 23, 828-832	2.5	4
70	Propagation of shear bands and accommodation of shear strain in the Fe ₅₆ Nb ₄ Al ₄₀ ultrafine eutectic-dendrite composite. <i>Applied Physics Letters</i> , 2008 , 92, 091910	3.4	57
69	Influence of a bimodal eutectic structure on the plasticity of a (Ti _{70.5} Fe _{29.5}) ₉₁ Sn ₉ ultrafine composite. <i>Applied Physics Letters</i> , 2008 , 93, 201906	3.4	40
68	High strength NiZr binary ultrafine eutectic-dendrite composite with large plastic deformability. <i>Applied Physics Letters</i> , 2008 , 93, 031913	3.4	34
67	Enhancement of plasticity in Ti-rich TiZrBeCuNiTa bulk glassy alloy via introducing the structural inhomogeneity. <i>Journal of Materials Research</i> , 2008 , 23, 2984-2989	2.5	22
66	Correlation between volumetric change and glass-forming ability of metallic glass-forming alloys. <i>Applied Physics Letters</i> , 2008 , 92, 091915	3.4	18
65	Microwave assisted synthesis of nanocrystalline Fe-phosphates electrode materials and their electrochemical properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 5376-9	1.3	14
64	The origin of a two-stage endothermic reaction in Zr ₃₆ Ti ₂₄ Be ₄₀ metallic glass. <i>Metals and Materials International</i> , 2008 , 14, 553-557	2.4	7
63	Correlation between fragility and glass-forming ability/plasticity in metallic glass-forming alloys. <i>Applied Physics Letters</i> , 2007 , 91, 031907	3.4	86
62	Mechanical relaxations of a (Zr _{77.5} Ti _{22.5}) ₅₅ (Ni ₄₈ Cu ₅₂) _{21.25} Be _{23.75} amorphous alloy studied using dynamic mechanical analysis. <i>Metals and Materials International</i> , 2007 , 13, 447-453	2.4	19
61	Synthesis and characterization of nanometer-sized Ti-based amorphous powders. <i>Journal of Materials Research</i> , 2007 , 22, 1754-1758	2.5	3
60	Improvement of plasticity by tailoring combination of constituent elements in Ti-rich TiZrBeCuNi bulk metallic glasses. <i>Journal of Materials Research</i> , 2007 , 22, 3440-3447	2.5	17
59	Development of quaternary Fe ₅₅ Nb bulk glassy alloys with high glass-forming ability. <i>Journal of Materials Research</i> , 2007 , 22, 471-477	2.5	56
58	Mg-rich MgNiCd ternary bulk metallic glasses with high compressive specific strength and ductility. <i>Journal of Materials Research</i> , 2007 , 22, 334-338	2.5	33

57	A new synthesis route to nanocrystalline olivine phosphates and their electrochemical properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 3949-53	1.3	2
56	A polyol-mediated synthesis of titania-based nanoparticles and their electrochemical properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 3954-8	1.3	2
55	Orthorhombic approximant phases and their relation to quasicrystals in mechanically alloyed AlCuBeSi alloys. <i>Philosophical Magazine Letters</i> , 2006 , 86, 425-433	1	2
54	Formation, and mechanical and magnetic properties of bulk ferromagnetic Fe-Nb-B-Y-(Zr, Co) alloys. <i>Journal of Materials Research</i> , 2006 , 21, 1019-1024	2.5	29
53	X-ray photochemical wet etching of n-Si (100) in hydrofluoric solution. <i>Applied Physics Letters</i> , 2006 , 89, 054104	3.4	4
52	Spontaneous formation of the B2 phase from a decagonal quasicrystal under reduced constraint. <i>Journal of Materials Science</i> , 2006 , 41, 6081-6086	4.3	3
51	Estimation of critical cooling rates for glass formation in bulk metallic glasses through non-isothermal thermal analysis. <i>Metals and Materials International</i> , 2005 , 11, 1-9	2.4	17
50	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> , 2005 , 11, 19-27	2.4	118
49	Shear band formation and mechanical properties of cold-rolled bulk metallic glass and metallic glass matrix composite. <i>Journal of Materials Science</i> , 2005 , 40, 1937-1941	4.3	17
48	Fabrication and mechanical properties of WC particulate reinforced Cu ₄₇ Ti ₃₃ Zr ₁₁ Ni ₆ Sn ₂ Si ₁ bulk metallic glass matrix composites. <i>Journal of Materials Science</i> , 2005 , 40, 6127-6130	4.3	16
47	Effect of Ag Addition on the Improvement of Glass-forming Ability and Plasticity of MgCuZn Bulk Metallic Glass. <i>Journal of Materials Research</i> , 2005 , 20, 2379-2385	2.5	67
46	Origin of the Simultaneous Improvement of Strength and Plasticity in Ti-based Bulk Metallic Glass Matrix Composites. <i>Journal of Materials Research</i> , 2005 , 20, 2474-2479	2.5	31
45	Deformation Behavior of TiZrNiCuBe Metallic Glass and Composite in the Supercooled Liquid Region. <i>Journal of Materials Research</i> , 2004 , 19, 937-942	2.5	15
44	Formation of CaMgZn bulk glassy alloy by casting into cone-shaped copper mold. <i>Journal of Materials Research</i> , 2004 , 19, 685-688	2.5	99
43	Oxidation Kinetics in Iron and Stainless Steel: An in Situ X-ray Reflectivity Study. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 20213-20218	3.4	13
42	In situ X-ray Reflectivity Study of Oxidation Kinetics in Iron and Stainless steel. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 840, Q4.8.1		
41	Bulk glass formation in the NiZrTiNbSiSn alloy system. <i>Journal of Materials Research</i> , 2004 , 19, 2221-2225.5		37
40	Bulk Glass Formation in Mg-Cu-Ag-Y-Gd Alloy. <i>Materials Transactions</i> , 2004 , 45, 2474-2477	1.3	32

39	The Effect of In Addition on the Glass-Forming Ability in Cu-Ti-Zr-Ni-Si Metallic Glasses. <i>Materials Transactions</i> , 2004 , 45, 2693-2696	1.3	11
38	Glass Forming Ability and Mechanical Properties of Misch Metal-Based Bulk Metallic Glass Matrix Composite. <i>Materials Transactions</i> , 2004 , 45, 1395-1399	1.3	5
37	Effect of Yttrium Addition on Thermal Stability and Glass Forming Ability in Fe-TM (Mn, Mo, Ni)-B Ternary Alloys. <i>Materials Transactions</i> , 2004 , 45, 2770-2775	1.3	12
36	Ti-Based Bulk Metallic Glasses with High Specific Strength. <i>Materials Transactions</i> , 2004 , 45, 595-598	1.3	54
35	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> , 2003 , 18, 2101-2108	2.5	51
34	Fabrication of ternary MgCuPd bulk metallic glass with high glass-forming ability under air atmosphere. <i>Journal of Materials Research</i> , 2003 , 18, 1502-1504	2.5	130
33	Effect of Titanium on Glass-forming Ability of Cu-Zr-Al Alloys. <i>Materials Transactions</i> , 2003 , 44, 1647-1650.	1.3	18
32	Precipitation of Stable Icosahedral Phase in Ti-Based Amorphous Alloys. <i>Materials Transactions</i> , 2003 , 44, 1978-1981	1.3	12
31	Fabrication and Mechanical Properties of Mg ₆₅ Cu ₁₅ Ag ₅ Pd ₅ Gd ₁₀ Bulk Metallic Glass. <i>Materials Transactions</i> , 2003 , 44, 2141-2144	1.3	36
30	Formation of Ductile Cu-Based Bulk Metallic Glass Matrix Composite by Ta Addition. <i>Materials Transactions</i> , 2003 , 44, 2224-2227	1.3	39
29	Spark plasma sintering of Al-Si-Cu-Fe quasi-crystalline powder. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2003 , 34, 841-849	2.3	
28	High-temperature oxidation of AlCuBeBe quasicrystalline powders. <i>Journal of Materials Research</i> , 2003 , 18, 1837-1841	2.5	1
27	Plasticity in Ni ₅₉ Zr ₂₀ Ti ₁₆ Si ₂ Sn ₃ metallic glass matrix composites containing brass fibers synthesized by warm extrusion of powders. <i>Applied Physics Letters</i> , 2003 , 83, 2312-2314	3.4	74
26	Two stage oxidation in epitaxial Ni (111)/GaN (0001) thin films. <i>Applied Physics Letters</i> , 2003 , 83, 2139-2141	3.4	16
25	Formation and Stability of Quasicrystalline and Hexagonal Approximant Phases in an AlMnBe Alloy. <i>Journal of Materials Research</i> , 2002 , 17, 1671-1677	2.5	20
24	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> , 2002 , 82, 1495-1508		32
23	Metalorganic vapor-phase epitaxial growth of vertically well-aligned ZnO nanorods. <i>Applied Physics Letters</i> , 2002 , 80, 4232-4234	3.4	1014
22	Fracture Modes for Self-Fragmentation of Al-Based Quasicrystals Contaminated by Carbon. <i>Materials Transactions</i> , 2001 , 42, 1356-1363	1.3	

21	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> , 2001 , 32, 200-202	2.3	11
20	Precipitation of the icosahedral phase in amorphous Zr ₆₅ Cu _{17.5} Al _{7.5} Ni ₁₀ Ag _x (x=0,2.5, 5, 7.5 and 10) alloys. <i>Metals and Materials International</i> , 2001 , 7, 187-190	2.4	16
19	Fracture mode for self-fragmentation of carbon contaminated icosahedral Al-Cu-Fe quasicrystalline phase. <i>Journal of Materials Science Letters</i> , 2001 , 20, 1281-1284		3
18	Development of nanocrystals in an amorphous alloy Zr ₄₇ Ni ₃₀ Ti ₂₃ . <i>Journal of Materials Science</i> , 2001 , 36, 5101-5104	4.3	5
17	Comparison of Al-Cu-Fe quasicrystalline particle reinforced Al composites fabricated by conventional casting and extrusion. <i>Journal of Materials Science</i> , 2001 , 36, 963-970	4.3	33
16	Quasicrystalline phase formation in Al ₆₂ Cu _{22.5} Fe _{12.5} and Al ₅₅ Cu _{22.5} Fe _{12.5} Be ₇ alloys. <i>Journal of Materials Research</i> , 2001 , 16, 1535-1540	2.5	14
15	Precipitation of icosahedral phase from amorphous Zr ₆₅ Cu _{17.5} Al _{7.5} Ni ₁₀ Ag _x (x = 0, 5) alloys. <i>Journal of Materials Research</i> , 2001 , 16, 1311-1317	2.5	12
14	Potential industrial applications of Al-based quasicrystals: plasma sprayed vs. HVOF sprayed coatings. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 643, 1521		2
13	Solidification and Microstructure Control of Mg-rich Alloys in the Mg-Zn-Y Ternary System. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 643, 251		7
12	Enhancement of the icosahedral quasicrystalline phase forming ability with Be addition to an Al _{62.5} Cu _{25.5} Fe ₁₂ alloy. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 643, 261		3
11	Possibilities of producing single phase kilogram scale Al ₇₀ Ni ₁₃ Co ₁₃ Si ₄ alloy by conventional casting. <i>Journal of Materials Science Letters</i> , 2000 , 19, 363-365		4
10	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> , 2000 , 6, 415-422		13
9	Stability and phase transformations of icosahedral phase in a 41.5Zr41.5Ti17Ni alloy. <i>Journal of Materials Research</i> , 2000 , 15, 892-897	2.5	37
8	Ni-based bulk amorphous alloys in the Ni ₄₀ Zr ₄₀ (Si, Sn) system. <i>Journal of Materials Research</i> , 2000 , 15, 2425-2430	2.5	102
7	Synthesis of Bulk Quasicrystals by Spark Plasma Sintering. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 643, 211		2
6	Phase Equilibria and Amorphous Phase Formation in the Ni-Nb-P Ternary Alloy System. <i>Materials Transactions, JIM</i> , 2000 , 41, 1232-1236		
5	Single Crystal Solidification of Undercooled Single-phase Alloys. <i>Materials Transactions, JIM</i> , 2000 , 41, 1569-1574		4
4	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> , 1998 , 29, 1221-1235	2.3	99

- 3 The wetting, reaction and bonding of silicon nitride by Cu-Ti alloys. *Journal of Materials Science*, **1991**, 26, 3223-3234 4.3 30
- 2 Effects of Alloying Elements and Cooling Rate on Morphology of Phases in CaO Added Mg-Al-Si Alloys 333-339
- 1 Effect of Al Addition on Thermal Stability and Thermoplastic Forming Ability of Ti₃₅Zr₁₅Ni₄₀Cu₁₀ Metallic Glass in the Supercooled Liquid Region. *Metals and Materials International*, 1 2.4