Jayanta Das

List of Publications by Year in Descending Order

146 papers	5,418 citations	39 h-index	69 g-index
149 ext. papers	5,802 ext. citations	3.9 avg, IF	5.66 L-index

#	Paper	IF	Citations
146	Mechanism of microstructure evolution and spheroidization in ultrafine lamellar CoCrFeNi(Nb0.5/Ta0.4) eutectic high entropy alloys upon hot deformation. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2022**, 835, 142669	5.3	1
145	Effect of cold rolling on the serrated flow behavior of Zr41.2Ti13.8Cu12.5Ni10Be22.5 bulk metallic glass during nanoindentation. *Journal of Materials Research*, **2022**, 37, 976	2.5	2
144	Evolution of microstructure homogeneity and mechanical properties in nano-/ultrafine eutectic CoCrFeNiNb (0.45≤x≤0.65) high entropy alloy ingots and cast rods. *Journal of Alloys and Compounds*, **2022**, 901, 163610	5.7	2
143	Enhanced magnetocaloric effect in Fe-rich (NixFe1-x)70.5B17.7Si7.8Ti4 (x = 0.3 and 0.4) mechanically alloyed nanocrystalline powder. *Journal of Magnetism and Magnetic Materials*, **2022**, 541, 168574	2.8	
142	Observation of superspin-glass behaviour and metamagnetic transition in spark plasma-sintered Ni50CoxMn40Sn10 (x = 3, 5, 7, and 9 at.%). *Journal of Materials Research*, **2022**, 37, 1513-1519	2.5	0
141	Effect of testing conditions on the nanomechanical behavior of surface and inner core of as-cast Zr-base bulk metallic glassy plates. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2022**, 845, 143206	5.3	0
140	Observation of a large magnetocaloric effect and suppressed transition in Ti doped Ni-Co-Mn-Sn ribbons upon annealing. *Journal of Alloys and Compounds*, **2022**, 917, 165490	5.7	0
139	Effect of cold rolling on the pressure coefficient of glass transition temperature in bulk metallic glasses. *Thermochimica Acta*, **2021**, 706, 179071	2.9	1
138	Effect of Cold Rolling on the Evolution of Shear Bands and Nanoindentation Hardness in ZrTiCuNiBe Bulk Metallic Glass. *Nanomaterials*, **2021**, 11,	5.4	4
137	Superior oxidation resistance of ultrafine Ni-Zr-(Al) eutectic composites in the temperature range of 500-900 °C. *Journal of Alloys and Compounds*, **2021**, 854, 155998	5.7	1
136	Carbon nanotubes, nanochains and quantum dots synthesized through the chemical treatment of charcoal powder. *Journal of Molecular Structure*, **2021**, 1227, 129419	3.4	1
135	Synthesis, structural and magnetic properties of NiO nanospheres and rGO-NiO nanocomposites and observing magnetocaloric effect in rGO-NiO nanocomposites. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2021**, 265, 115007	3.1	3
134	A tool to predict the evolution of phase and Young's modulus in high entropy alloys using artificial neural network. *Computational Materials Science*, **2021**, 197, 110619	3.2	4
133	Strengthening ultrafine lamellar Ni-Zr-(Al) eutectic by precipitation hardening. *Journal of Alloys and Compounds*, **2021**, 882, 160684	5.7	1
132	A review on nano-/ultrafine advanced eutectic alloys. *Journal of Alloys and Compounds*, **2020**, 827, 154226	5.7	32
131	Synthesis of a robust multifunctional composite with concurrent magnetocaloric effect and enhanced energy absorption capabilities through a tailored processing route. *Materials and Design*, **2020**, 187, 108399	8.1	7
130	Strain rate sensitivity and deformation mechanism of nano-lamellar Ni/Ni5Zr eutectic at room temperature. *Journal of Materials Research*, **2020**, 35, 2777-2788	2.5	1

129	Effect of Moist Air and Minor Zr Addition on Oxidation Behavior of Arc-Melted Multiphase Mo–Si–B Alloys in the Temperature Range of 1000 °C–1300 °C. *Oxidation of Metals*, **2020**, 93, 483-513	1.6	0
128	Facile synthesis of CuO nanowires and Cu2O nanospheres grown on rGO surface and exploiting its photocatalytic, antibacterial and supercapacitive properties. *Physica B: Condensed Matter*, **2019**, 558, 74-81	2.8	43
127	Effect of Zr Addition on Microstructure, Hardness and Oxidation Behavior of Arc-Melted and Spark Plasma Sintered Multiphase Mo-Si-B Alloys. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2019**, 50, 2041-2060	2.3	9
126	An assessment on the stability of the eutectic phases in high entropy alloys. *Journal of Alloys and Compounds*, **2019**, 798, 167-173	5.7	26
125	Effect of Fe addition and moist environment on the high temperature oxidation behavior of Mo76-xSi14B10Fex (x = 0, 0.5, 1 at.%) composites. *Intermetallics*, **2019**, 111, 106498	3.5	8
124	Effect of moist environment on the oxidation behavior of Mo76-Si14B10Fe (x = 0, 0.5, 1 at.%) ultrafine composites in the range of 700–800 °C. *Corrosion Science*, **2019**, 155, 86-96	6.8	6
123	Effect of cooling rate and composition on the microstructure and mechanical properties of (Ni0.92Zr0.08)100−xAlx (0 ≤ x ≤ 4 at.%) ultrafine eutectic composites. *Journal of Materials Research*, **2019**, 34, 1704-1713	2.5	4
122	Assessing two rapid quenching techniques for the production of La-Fe-Si magnetocaloric alloys in reduced annealing time. *Material Design and Processing Communications*, **2019**, 1, e96	0.9	1
121	Correlating the lattice parameter and Curie temperature of Ni in Fe-Ni-base alloys. *AIP Advances*, **2019**, 9, 055126	1.5	3
120	Accurate measurement of glass transition temperature of Cu47.5Zr47.5Al5 and Zr41.2Ti13.8Cu12.5Ni10Be22.5 using step-scan modulated differential scanning calorimeter. *Journal of Alloys and Compounds*, **2019**, 800, 314-319	5.7	3
119	Improvement of intrinsic plasticity and strength of Zr55Cu30Ni5Al10 metallic glass by tuning the glass transition temperature. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 762, 138102	5.3	4
118	The effect of milling time on the evolution of nanostructure, thermal stability, and magnetocaloric properties of (Ni0.50Fe0.50)70.5B17.7Si7.8Ti4. *Journal of Alloys and Compounds*, **2019**, 772, 157-163	5.7	4
117	Composition Dependence on the Evolution of Nanoeutectic in CoCrFeNiNbx (0.45 ≤ x ≤ 0.65) High Entropy Alloys. *Advanced Engineering Materials*, **2018**, 20, 1700908	3.5	28
116	Precise estimation of glass transition and crystallization temperatures of Zr 55 Cu 30 Ni 5 Al 10 metallic glass using step-scan modulated temperature differential scanning calorimeter. *Thermochimica Acta*, **2018**, 660, 18-22	2.9	5
115	Influence of Nb on the Microstructure and Fracture Toughness of (ZrFe)Nb Nano-Eutectic Composites. *Materials*, **2018**, 11,	3.5	10
114	Nano-/Ultrafine Eutectic in CoCrFeNi(Nb/Ta) High-Entropy Alloys. *Transactions of the Indian Institute of Metals*, **2018**, 71, 2717-2723	1.2	18
113	High temperature oxidation response of Al/Ce doped Mo–Si–B composites. *Intermetallics*, **2017**, 83, 101-109	3.5	22
112	Facile synthesis of CdO nanorods and exploiting its properties towards supercapacitor electrode materials and low power UV irradiation driven photocatalysis against methylene blue dye. *Materials Research Bulletin*, **2017**, 90, 224-231	5.1	48

111	Tunable (violet to green) emission by high-yield graphene quantum dots and exploiting its unique properties towards sun-light-driven photocatalysis and supercapacitor electrode materials. *Materials Today Communications*, **2017**, 11, 76-86	2.5	56
110	Is the energy density a reliable parameter for materials synthesis by selective laser melting?. *Materials Research Letters*, **2017**, 5, 386-390	7.4	182
109	Improvement of oxidation resistance of arc-melted Mo 76 Si 14 B 10 by microstructure control upon minor Fe addition. *Intermetallics*, **2017**, 88, 28-30	3.5	11
108	Synthesis of crescent shaped heterocycle-fused aromatics via Garratt-Braverman cyclization and their DNA-binding studies. *Tetrahedron Letters*, **2017**, 58, 2014-2018	2	5
107	Strengthening face centered cubic crystals by annealing induced nano-twins. *Scientific Reports*, **2017**, 7, 17512	4.9	15
106	Bacterial aetiology of neonatal meningitis: A study from north-east India. *Indian Journal of Medical Research*, **2017**, 145, 138-143	2.9	9
105	Microscopic mechanism on the evolution of plasticity in nanolamellar □Ni/Ni5Zr eutectic composites. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 666, 72-79	5.3	13
104	Tuning of nanostructure by the control of twin density, dislocation density, crystallite size, and stacking fault energy in Cu 100□ Zn x (0□x□30 wt%). *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 672, 203-215	5.3	5
103	Mechanism of lamellae deformation and phase rearrangement in ultrafine □Ti/FeTi eutectic composites. *Acta Materialia*, **2015**, 97, 170-179	8.4	30
102	Effect of cryorolling on the microstructure and tensile properties of bulk nano-austenitic stainless steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 631, 241-247	5.3	42
101	High strength Ni□Zr□(Al) nanoeutectic composites with large plasticity. *Intermetallics*, **2015**, 63, 51-58	3.5	22
100	Nanoeutectic Composites: Processing, Microstructure and Properties. *Transactions of the Indian Institute of Metals*, **2015**, 68, 1199-1205	1.2	4
99	Effect of twin spacing, dislocation density and crystallite size on the strength of nanostructured □brass. *Journal of Alloys and Compounds*, **2015**, 618, 139-145	5.7	24
98	Synthesis of mullite-based coatings from alumina and zircon powder mixtures by plasma spraying and laser remelting. *Materials Chemistry and Physics*, **2015**, 154, 22-29	4.4	10
97	Microstructure and size effect in ultrafine (Ti0.705Fe0.295)100□Snx (0?x?4at.%) composites. *Journal of Alloys and Compounds*, **2014**, 585, 54-62	5.7	10
96	Evolution and interaction of twins, dislocations and stacking faults in rolled □brass during nanostructuring at sub-zero temperature. *AIP Advances*, **2014**, 4, 067101	1.5	15
95	Effect of Oxygen Partial Pressure on the Cyclic Oxidation Behavior of Mo76Si14B10. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2013**, 44, 2910-2913	2.3	3
94	Transient stage oxidation behavior of Mo76Si14B10 alloy at 1150 □C. *Corrosion Science*, **2013**, 68, 231-237	6.8	22

93	Repository on maternal child health: health portal to improve access to information on maternal child health in India. *BMC Public Health*, **2013**, 13, 2	4.1	20
92	A Few Aspects on the Processing and Deformation Behavior of Advanced Eutectic Alloys. *Transactions of the Indian Institute of Metals*, **2012**, 65, 571-576	1.2	1
91	Origin of plasticity in ultrafine lamellar Ti-Fe-(Sn) composites. *AIP Advances*, **2012**, 2, 032175	1.5	19
90	Influence of superficial CeO2 coating on high temperature oxidation behavior of Ti□Al□V. *Journal of Alloys and Compounds*, **2012**, 519, 106-111	5.7	17
89	Effect of tungsten metal particle sizes on the solubility of molten alloy melt: Experimental observation of Gibbs-Thomson effect in nanocomposites. *Applied Physics Letters*, **2012**, 101, 124103	3.4	4
88	Role of crystalline precipitates on the mechanical properties of (Cu0.50Zr0.50)100□Alx (x=4, 5, 7) bulk metallic glasses. *Journal of Alloys and Compounds*, **2011**, 509, S99-S104	5.7	22
87	Oxidation behaviour of Mo□Si□B□(Al, Ce) ultrafine-eutectic dendrite composites in the temperature range of 500□700□C. *Intermetallics*, **2011**, 19, 1-8	3.5	27
86	Evolution of nanostructure in □brass upon cryorolling. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2011**, 530, 675-679	5.3	23
85	Effect of Ce addition on the oxidation behaviour of Mo□Si□B□Al ultrafine composites at 1100□C. *Scripta Materialia*, **2011**, 64, 486-489	5.6	15
84	Effect of Sn on microstructure and mechanical properties of Ti-Fe-(Sn) ultrafine eutectic composites. *Journal of Materials Research*, **2010**, 25, 943-956	2.5	20
83	Effect of prestraining on the deformation and fracture behavior of Zr44Ti11Cu9.8Ni10.2Be25. *Intermetallics*, **2010**, 18, 1902-1907	3.5	14
82	Corrosion and pitting behaviour of ultrafine eutectic Ti□Fe□Sn alloys. *Journal of Alloys and Compounds*, **2010**, 503, 19-24	5.7	12
81	Mechanical response of metallic glasses: Insights from in-situ high energy X-ray diffraction. *Jom*, **2010**, 62, 76-82	2.1	16
80	Improved plasticity of bulk metallic glasses upon cold rolling. *Scripta Materialia*, **2010**, 62, 678-681	5.6	107
79	Modeling deformation behavior of Cu□Zr□Al bulk metallic glass matrix composites. *Applied Physics Letters*, **2009**, 95, 101906	3.4	73
78	Enhanced Work Hardening of Cu-Based Bulk Metallic Glass Composites by In Situ Formed Nano-Scale Heterogeneities. *Materials Science Forum*, **2009**, 633-634, 665-673	0.4	2
77	Deformation-induced martensitic transformation in Cu□Zr□(Al,Ti) bulk metallic glass composites. *Scripta Materialia*, **2009**, 60, 431-434	5.6	148
76	Structural evolution of Cu□Zr metallic glasses under tension. *Acta Materialia*, **2009**, 57, 4133-4139	8.4	68

75	Deformation-induced microstructural heterogeneity in monolithic Zr44Ti11Cu9.8Ni10.2Be25 bulk metallic glass. *Physica Status Solidi - Rapid Research Letters*, **2009**, 3, 46-48	2.5	26
74	Phase formation and thermal stability in Cu□Zr□Ti(Al) metallic glasses. *Intermetallics*, **2009**, 17, 453-462	3.5	67
73	Glass formation and mechanical properties of (Cu50Zr50)100□Alx (x = 0, 4, 5, 7) bulk metallic glasses. *Journal of Alloys and Compounds*, **2009**, 483, 146-149	5.7	33
72	Consolidation and mechanical properties of ball milled Zr50Cu50 glassy ribbons. *Journal of Alloys and Compounds*, **2009**, 483, 227-230	5.7	12
71	Correlation between Poisson ratio and Mohr□Coulomb coefficient in metallic glasses. *Journal of Alloys and Compounds*, **2009**, 483, 125-131	5.7	15
70	Designing bulk metallic glass and glass matrix composites in martensitic alloys. *Journal of Alloys and Compounds*, **2009**, 483, 97-101	5.7	43
69	Stress-induced martensitic transformation in a Ti45Zr38Al17cast rod. *Journal of Physics: Conference Series*, **2009**, 144, 012090	0.3	1
68	Ti-base nanoeutectic-hexagonal structured (D019) dendrite composite. *Scripta Materialia*, **2008**, 58, 631-634	3.6	34
67	Formation of nano-scale □phase in arc-melted micron-scale dendrite reinforced Zr73.5Nb9Cu7Ni1Al9.5 ultrafine composite during heat treatment. *Intermetallics*, **2008**, 16, 538-543	3.5	3
66	Formation of a bimodal eutectic structure in Ti□Be□Sn alloys with enhanced plasticity. *Applied Physics Letters*, **2008**, 93, 141901	3.4	70
65	Propagation of shear bands in a Cu47.5Zr47.5Al5 bulk metallic glass. *Journal of Materials Research*, **2008**, 23, 6-12	2.5	31
64	Effect of local chemistry, structure and length scale of heterogeneities on the mechanical properties of a Ti45Cu40Ni7.5Zr5Sn2.5 bulk metallic glass. *Philosophical Magazine Letters*, **2008**, 88, 75-81	1	23
63	Strain distribution in Zr64.13Cu15.75Ni10.12Al10 bulk metallic glass investigated by in situ tensile tests under synchrotron radiation. *Journal of Applied Physics*, **2008**, 104, 013522	2.5	53
62	Deformation and fracture of Ti-base nanostructured composite. *International Journal of Materials Research*, **2008**, 99, 985-990	0.5	1
61	Effect of Titanium on Microstructure and Mechanical Properties of Cu50Zr50□ Ti x (2.5□x□7.5) Glass Matrix Composites. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2008**, 39, 1868-1873	2.3	31
60	Nanoscale mechanism and intrinsic structure related deformation of Ti-alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 493, 71-78	5.3	19
59	Microstructural inhomogeneities introduced in a Zr-based bulk metallic glass upon low-temperature annealing. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 491, 124-130	5.3	44
58	Mechanical properties of bulk metallic glasses and composites. *Journal of Materials Research*, **2007**, 22, 285-301	2.5	341

57	Strain rate dependence of plastic flow in Ce-based bulk metallic glass during nanoindentation. *Journal of Materials Research*, **2007**, 22, 258-263	2.5	31
56	Processing Routes, Microstructure and Mechanical Properties of Metallic Glasses and their Composites. *Advanced Engineering Materials*, **2007**, 9, 443-453	3.5	39
55	Martensite Formation in a Ductile Cu47.5Zr47.5Al5 Bulk Metallic Glass Composite. *Advanced Engineering Materials*, **2007**, 9, 487-491	3.5	41
54	New Fe□Cr□Mo□C□ composites with high compressive strength and large plasticity. *Acta Materialia*, **2007**, 55, 3513-3520	8.4	13
53	Ti-base bulk nanostructure-dendrite composites: Microstructure and deformation. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 449-451, 24-29	5.3	32
52	Microstructural comparison of Zr73.5Nb9Cu7Ni1Al9.5 nanostructure-dendrite composites produced by different casting techniques. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 449-451, 747-751	5.3	7
51	Formation of ductile ultrafine eutectic structure in Ti□e□n alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 449-451, 737-740	5.3	29
50	Interfacial reaction during the fabrication of Ni60Nb40 metallic glass particles-reinforced Al based MMCs. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 444, 206-213	5.3	64
49	Metallic glass formation in the Cu47Ti33Zr11Ni8Si1 alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 444, 257-264	5.3	6
48	Dynamic softening and indentation size effect in a Zr-based bulk glass-forming alloy. *Scripta Materialia*, **2007**, 56, 605-608	5.6	76
47	High strength Ti□e□n ultrafine composites with large plasticity. *Scripta Materialia*, **2007**, 57, 101-104	5.6	123
46	Effect of high pressure during the fabrication on the thermal and mechanical properties of amorphous Ni60Nb40 particle-reinforced Al-based metal matrix composites. *Journal of Materials Research*, **2007**, 22, 1168-1173	2.5	5
45	Influence of additional elements on the development of nanoscale heterogeneities in (TiCu)-based bulk metallic glasses with enhanced ductility. *Journal of Materials Research*, **2007**, 22, 2223-2229	2.5	3
44	Microstructure and mechanical properties of slowly cooled Cu47.5Zr47.5Al5. *Journal of Materials Research*, **2007**, 22, 326-333	2.5	46
43	Impact of Microstructural Inhomogenities on the Ductility of Bulk Metallic Glasses. *Materials Transactions*, **2007**, 48, 1806-1811	1.3	8
42	Plasticity induced by nanoparticle dispersions in bulk metallic glasses. *Journal of Non-Crystalline Solids*, **2007**, 353, 327-331	3.9	70
41	Strengthening of multicomponent glass-forming alloys by microstructure design. *Journal of Non-Crystalline Solids*, **2007**, 353, 3742-3749	3.9	8
40	Microstructural investigation of a deformed Ti66.1Cu8Ni4.8Sn7.2Nb13.9 nanostructure□endrite composite. *Journal of Alloys and Compounds*, **2007**, 434-435, 106-109	5.7	27

39	Bulk ultra-fine eutectic structure in TiFeSi base alloys. *Journal of Alloys and Compounds*, **2007**, 434-435, 28-31	5.7	39
38	Deformation behavior of a Ti66Cu8Ni4.8Sn7.2Nb14 nanostructured composite containing ductile dendrites. *Journal of Alloys and Compounds*, **2007**, 434-435, 13-17	5.7	19
37	Ductilization of BMGs by optimization of nanoparticle dispersion. *Journal of Alloys and Compounds*, **2007**, 434-435, 6-9	5.7	19
36	Plasticity in bulk metallic glasses investigated via the strain distribution. *Physical Review B*, **2007**, 76,	3.3	44
35	Fabrication and mechanical properties of NiNb metallic glass particle-reinforced Al-based metal matrix composite. *Scripta Materialia*, **2006**, 54, 1445-1450	5.6	84
34	Phase stability and its effect on the deformation behavior of TiNbTaSn/Cr alloys. *Scripta Materialia*, **2006**, 54, 1943-1948	5.6	80
33	Tailoring the microstructure and mechanical properties of TiAl alloy using a novel electromagnetic stirring method. *Scripta Materialia*, **2006**, 55, 1143-1146	5.6	9
32	Influence of annealing on the microstructure and hardness of Ti67.79Fe28.36Sn3.85 nanocomposite rods. *Scripta Materialia*, **2006**, 55, 1087-1090	5.6	7
31	Effect of Sn on microstructure and mechanical properties of (TiCu)-based bulk metallic glasses. *Philosophical Magazine Letters*, **2006**, 86, 479-486	1	31
30	Strength asymmetry of ductile dendrites reinforced Zr- and Ti-based composites. *Journal of Materials Research*, **2006**, 21, 2331-2336	2.5	39
29	Wavy cleavage fracture of bulk metallic glass. *Applied Physics Letters*, **2006**, 89, 251917	3.4	75
28	Heterogeneity of a Cu47.5Zr47.5Al5 bulk metallic glass. *Applied Physics Letters*, **2006**, 88, 051911	3.4	141
27	High strength hexagonal structured dendritic phase reinforced ZrTiNi bulk alloy with enhanced ductility. *Applied Physics Letters*, **2006**, 88, 201920	3.4	24
26	Deformation-induced nanostructuring in a TiNbTaSn alloy. *Applied Physics Letters*, **2006**, 89, 031906	3.4	44
25	Work hardening ability of ductile Ti45Cu40Ni7.5Zr5Sn2.5 and Cu47.5Zr47.5Al5 bulk metallic glasses. *Applied Physics Letters*, **2006**, 89, 071908	3.4	54
24	Structural short-range order of the Ti phase in bulk TiFe(Sn) nanoeutectic composites. *Applied Physics Letters*, **2006**, 89, 261917	3.4	28
23	Effect of Cold Deformation on the Machinability of a Free Cutting Steel. *Materials and Manufacturing Processes*, **2006**, 21, 333-340	4.1	9
22	High strength ductile Cu-base metallic glass. *Intermetallics*, **2006**, 14, 876-881	3.5	118

21	Fracture surface morphology of compressed bulk metallic glass-matrix-composites and bulk metallic glass. *Intermetallics*, **2006**, 14, 982-986	3.5	64
20	Ductile Metallic Glasses in Supercooled Martensitic Alloys. *Materials Transactions*, **2006**, 47, 2606-2609	1.3	54
19	Effect of Cu on local amorphization in bulk Ni□Ti2Zr□Si alloys during solidification. *Acta Materialia*, **2006**, 54, 3141-3150	8.4	7
18	Microscopic deformation mechanism of a Ti66.1Nb13.9Ni4.8Cu8Sn7.2 nanostructured□dendrite composite. *Acta Materialia*, **2006**, 54, 3701-3711	8.4	89
17	Influence of environment and grain size on magnetic properties of nanocrystalline Mn□Zn ferrite. *Journal of Magnetism and Magnetic Materials*, **2006**, 306, 9-15	2.8	25
16	How to Improve the Ductility of Nanostructured Materials. *Journal of Korean Powder Metallurgy Institute*, **2006**, 13, 340-350	0.1	
15	Effect of aspect ratio on the compressive deformation and fracture behaviour of Zr-based bulk metallic glass. *Philosophical Magazine Letters*, **2005**, 85, 513-521	1	134
14	"Work-Hardenable" ductile bulk metallic glass. *Physical Review Letters*, **2005**, 94, 205501	7.4	791
13	Nanostructured Composite Materials with Improved Deformation Behavior. *Advanced Engineering Materials*, **2005**, 7, 587-596	3.5	27
12	Heterogeneous distribution of shear strains in deformed Ti66.1Cu8Ni4.8Sn7.2Nb13.9 nanostructure-dendrite composite. *Physica Status Solidi (A) Applications and Materials Science*, **2005**, 202, 2405-2412	1.6	13
11	In Situ Formed Bulk Nanostructured Ti-Base Composites. *Journal of Metastable and Nanocrystalline Materials*, **2005**, 24-25, 31-36	0.2	1
10	High-strength Ti-base ultrafine eutectic with enhanced ductility. *Applied Physics Letters*, **2005**, 87, 161907	3.4	142
9	Propagation of shear bands in Ti66.1Cu8Ni4.8Sn7.2Nb13.9 nanostructure-dendrite composite during deformation. *Applied Physics Letters*, **2005**, 86, 171909	3.4	43
8	Interfacial instability-driven amorphization□nanocrystallization in a bulk Ni45Cu5Ti33Zr16Si1 alloy during solidification. *Physical Review B*, **2005**, 72,	3.3	4
7	Lattice distortion□disordering and local amorphization in the dendrites of a Ti66.1Cu8Ni4.8Sn7.2Nb13.9 nanostructured□dendrite composite during intersection of shear bands. *Applied Physics Letters*, **2005**, 86, 201909	3.4	28
6	Toughening mechanisms of a Ti-based nanostructured composite containing ductile dendrites. *International Journal of Materials Research*, **2005**, 96, 675-680		11
5	Effect of casting conditions on dendrite-amorphous/nanocrystalline Zr□Nb□Cu□Ni□Al in situ composites. *Intermetallics*, **2004**, 12, 1153-1158	3.5	54
4	Novel In Situ Nanostructure-Dendrite Composites in Zr-Base Multicomponent Alloy System. *Materials and Manufacturing Processes*, **2004**, 19, 423-437	4.1	9

3	Nanostructured Composites in Multicomponent Alloy Systems. *Materials Transactions*, **2003**, 44, 1999-2006	1.9	34
2	Effect of casting conditions on microstructure and mechanical properties of high-strength Zr73.5Nb9Cu7Ni1Al9.5 in situ composites. *Scripta Materialia*, **2003**, 49, 1189-1195	5.6	55
1	High-strength Zr-Nb-(Cu,Ni,Al) composites with enhanced plasticity. *Applied Physics Letters*, **2003**, 82, 4690-4692	3.4	106