Nack J 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.

 230
 7,693
 48
 78

 papers
 citations
 h-index
 g-index

 246
 8,803
 3.8
 6.17

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
230	Effects of Al addition on tensile properties of partially recrystallized austenitic TRIP/TWIP steels. <i>Materials Science & Materials: Properties, Microstructure and Processing</i> , 2021 , 806, 140823	5.3	16
229	Effect of 1Al addition on deformation behavior of Mg. Journal of Magnesium and Alloys, 2021, 9, 489-49	98 8.8	6
228	Etarbide Assisted Nucleation of B2: A Novel Pathway to Develop High Specific Strength Steels. Acta Materialia, 2021 , 117349	8.4	2
227	Improvement of strength Eductility balance of B2-strengthened lightweight steel. <i>Acta Materialia</i> , 2020 , 191, 1-12	8.4	34
226	Control of magnesium in vitro degradation based on ultrafine-grained surface gradient structure using ultrasonic nanocrystalline surface modification. <i>Materialia</i> , 2020 , 12, 100821	3.2	5
225	Effects of Cu addition on formability and surface delamination phenomenon in high-strength high-Mn steels. <i>Journal of Materials Science and Technology</i> , 2020 , 43, 44-51	9.1	6
224	Microstructure and Tensile Properties of Ferritic Lightweight Steel Produced by Twin-Roll Casting. <i>Metals and Materials International</i> , 2020 , 26, 75-82	2.4	11
223	Orientations of dynamically recrystallized grains nucleated at double twins in Mg-4Zn-1Sn alloy. <i>Scripta Materialia</i> , 2019 , 170, 11-15	5.6	11
222	Understanding and Avoiding Intergranular Fracture Characteristics of Hadfield/Hot-Press-Forming Multi-Layer Steel Sheets. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 4085-4097	2.3	3
221	Effect of annealing conditions on the microstructure and tensile properties of 0.5 V containing Fe-16Mn-0.8C-0.5Si steel. <i>Scripta Materialia</i> , 2019 , 172, 125-129	5.6	4
220	Effect of B2 morphology on the mechanical properties of B2-strengthened lightweight steels. <i>Scripta Materialia</i> , 2019 , 165, 68-72	5.6	22
219	Cu addition effects on TRIP to TWIP transition and tensile property improvement of ultra-high-strength austenitic high-Mn steels. <i>Acta Materialia</i> , 2019 , 166, 246-260	8.4	28
218	Microstructural evolution of liquid metal embrittlement in resistance-spot-welded galvanized TWinning-Induced Plasticity (TWIP) steel sheets. <i>Materials Characterization</i> , 2019 , 147, 233-241	3.9	31
217	Simple method for tailoring the optimum microstructures of high-strength low-alloyed steels by the use of constitutive equation. <i>Materials Science & Diplication of Constitutive and Processing</i> , 2019 , 743, 138-147	5.3	10
216	Effects of solute segregation on tensile properties and serration behavior in ultra-high-strength high-Mn TRIP steels. <i>Materials Science & Discourse Amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 740-741, 16-27	5.3	14
215	Novel medium-Mn (austenitell-Imartensite) duplex hot-rolled steel achieving 1.6 GPa strength with 20 % ductility by Mn-segregation-induced TRIP mechanism. <i>Acta Materialia</i> , 2018 , 147, 247-260	8.4	70
214	Designing a magnesium alloy with high strength and high formability. <i>Nature Communications</i> , 2018 , 9, 2522	17.4	192

213	Effect of secondary phase particles on the tensile behavior of Mg-Zn-Ca alloy. <i>Materials Science</i> & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 735, 288-294	5.3	24	
212	Improvement of tensile properties in (austenite+ferrite+Ecarbide) triplex hot-rolled lightweight steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 730, 177-186	5.3	9	
211	Exceptional combination of ultra-high strength and excellent ductility by inevitably generated Mn-segregation in austenitic steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 737, 69-76	5.3	6	
210	Effect of stacking faults on the ductility of Fe-18Mn-1.5Al-0.6C twinning-induced plasticity steel at low temperatures. <i>Scripta Materialia</i> , 2017 , 137, 18-21	5.6	24	
209	Interpretation of quasi-static and dynamic tensile behavior by digital image correlation technique in TWinning Induced Plasticity (TWIP) and low-carbon steel sheets. <i>Materials Science &</i> Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 693, 170-177	5.3	16	
208	Improvement of impact toughness of 5Mn-1Al-0.5Ti steel by intercritical annealing. <i>Metals and Materials International</i> , 2017 , 23, 283-289	2.4	9	
207	Microstructure and mechanical properties of twin-roll cast MgBZnIIMnIIAl alloy joined by surface-friction welding. <i>Materials Characterization</i> , 2017 , 124, 8-13	3.9		
206	Quasi-static and dynamic deformation mechanisms interpreted by microstructural evolution in TWinning Induced Plasticity (TWIP) steel. <i>Materials Science & Digineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 684, 54-63	5.3	43	
205	Novel ultra-high-strength Cu-containing medium-Mn duplex lightweight steels. <i>Acta Materialia</i> , 2017 , 135, 215-225	8.4	58	
204	Effect of Sn addition on the microstructure and deformation behavior of Mg-3Al alloy. <i>Acta Materialia</i> , 2017 , 124, 268-279	8.4	94	
203	{100} texture evolution in bcc Fe sheets - Computational design and experiments. <i>Acta Materialia</i> , 2016 , 106, 106-116	8.4	18	
202	Twinning-mediated formability in Mg alloys. <i>Scientific Reports</i> , 2016 , 6, 22364	4.9	48	
201	Microstructural Evolution in Fe-22Mn-0.4C Twinning-Induced Plasticity Steel During High Strain Rate Deformation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 545-548	2.3	20	
200	Effect of C content on the microstructure and tensile properties of lightweight ferritic Fe-8Al-5Mn-0.1Nb alloy. <i>Metals and Materials International</i> , 2015 , 21, 79-84	2.4	21	
199	Microstructural evolution and deformation behavior of twinning-induced plasticity (TWIP) steel during wire drawing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 644, 41-52	5.3	41	
198	Novel ultra-high-strength (ferrite + austenite) duplex lightweight steels achieved by fine dislocation substructures (Taylor lattices), grain refinement, and partial recrystallization. <i>Acta Materialia</i> , 2015 , 96, 301-310	8.4	99	
197	Unique Appearance of Lamellar Cleavage Patterns on Fracture Surfaces of Ti-Based Amorphous Matrix Composite. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 2506-2515	2.3	3	
196	Dynamic tensionflompression asymmetry of martensitic transformation in austenitic Fe(D.4, 1.0)C18Mn steels for cryogenic applications. <i>Acta Materialia</i> , 2015 , 96, 37-46	8.4	25	

195	Effect of reduction of area on microstructure and mechanical properties of twinning-induced plasticity steel during wire drawing. <i>Metals and Materials International</i> , 2015 , 21, 815-822	2.4	29
194	Effects of Mn and Al contents on cryogenic-temperature tensile and Charpy impact properties in four austenitic high-Mn steels. <i>Acta Materialia</i> , 2015 , 100, 39-52	8.4	117
193	Melt Refining Technology of Highly-Contaminated Magnesium Alloy Scraps via a Sequential Refining Process. <i>Materials Science Forum</i> , 2015 , 828-829, 82-86	0.4	
192	Effects of Texture and Alloying Elements on Stretch Formability of Mg Alloy Sheets 2015 , 277-281		
191	Improvement of low temperature toughness of ferritic Mn steels by alloy modification. <i>Metals and Materials International</i> , 2015 , 21, 461-469	2.4	2
190	Effect of differential speed rolling on the texture evolution of Mg-4Zn-1Gd alloy. <i>Metals and Materials International</i> , 2015 , 21, 490-497	2.4	7
189	Brittle intermetallic compound makes ultrastrong low-density steel with large ductility. <i>Nature</i> , 2015 , 518, 77-9	50.4	359
188	Interpretation of cryogenic-temperature Charpy impact toughness by microstructural evolution of dynamically compressed specimens in austenitic 0.4C[22]26)Mn steels. <i>Acta Materialia</i> , 2015 , 87, 332-34.	3 ^{8.4}	42
187	Effects of Texture and Alloying Elements on Stretch Formability of Mg Alloy Sheets 2015 , 277-281		
186	Critical Assessment 6: Magnesium sheet alloys: viable alternatives to steels?. <i>Materials Science and Technology</i> , 2014 , 30, 1925-1928	1.5	84
185	Novel ferrite ustenite duplex lightweight steel with 77% ductility by transformation induced plasticity and twinning induced plasticity mechanisms. <i>Acta Materialia</i> , 2014 , 78, 181-189	8.4	111
184	Effects of Mn Addition on Tensile and Charpy Impact Properties in Austenitic Fe-Mn-C-Al-Based Steels for Cryogenic Applications. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 5419-5430	2.3	35
183	Effects of Nb and C additions on the microstructure and tensile properties of lightweight ferritic FeBAlBMn alloy. <i>Scripta Materialia</i> , 2014 , 89, 37-40	5.6	32
182	Segregation in twin-roll cast Mg alloy and its suppression through alloy design. <i>Materials Letters</i> , 2014 , 132, 361-364	3.3	17
181	Current issues in magnesium sheet alloys: Where do we go from here?. <i>Scripta Materialia</i> , 2014 , 84-85, 1-6	5.6	220
180	Deformation behavior of ferrite-austenite duplex high nitrogen steel. <i>Metals and Materials International</i> , 2014 , 20, 35-39	2.4	18
179	Fe-Al-Mn-C lightweight structural alloys: a review on the microstructures and mechanical properties. <i>Science and Technology of Advanced Materials</i> , 2013 , 14, 014205	7.1	250
178	Texture Evolution in Mg-Zn-Ca Alloy Sheets. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 2950-2961	2.3	109

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177	Effects of Inclusions on Delayed Fracture Properties of Three TWinning Induced Plasticity (TWIP) Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 776-786	2.3	20
176	Effect of Tempering Time on Microstructure, Tensile Properties, and Deformation Behavior of a Ferritic Light-Weight Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 235-247	2.3	11
175	Twinning behavior of MgBZnBGd alloy sheet during longitudinal tensile deformation. <i>Scripta Materialia</i> , 2013 , 69, 465-468	5.6	39
174	Origin of intergranular fracture in martensitic 8Mn steel at cryogenic temperatures. <i>Scripta Materialia</i> , 2013 , 69, 420-423	5.6	37
173	Manipulation of surface energy anisotropy in iron using surface segregation of phosphorus: An atomistic simulation. <i>Scripta Materialia</i> , 2013 , 68, 329-332	5.6	10
172	Deformation behavior of duplex austenite and -martensite high-Mn steel. <i>Science and Technology of Advanced Materials</i> , 2013 , 14, 014204	7.1	34
171	Deformation behavior of ferritellustenite duplex lightweight FelMnAlC steel. <i>Scripta Materialia</i> , 2012 , 66, 519-522	5.6	138
170	Effects of finish rolling temperature on inverse fracture occurring during drop weight tear test of API X80 pipeline steels. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 541, 181-189	5.3	25
169	Effects of Alloying Elements on High-Temperature Oxidation and Sticking Occurring During Hot Rolling of Modified Ferritic STS430J1L Stainless Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012 , 43, 74-86	2.3	5
168	Formation Mechanisms of Cracks Formed During Hot Rolling of Free-Machining Steel Billets. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012 , 43, 882-892	2.3	10
167	Effects of Annealing Temperature on Microstructure and Tensile Properties in Ferritic Lightweight Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012 , 43, 843-853	2.3	40
166	Effects of Aluminum Addition on Tensile and Cup Forming Properties of Three Twinning Induced Plasticity Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012 , 43, 1870-1883	2.3	31
165	Atomistic modeling of an impurity element and a metal-impurity system: pure P and Fe-P system. Journal of Physics Condensed Matter, 2012 , 24, 225002	1.8	14
164	Effects of Processing Parameters on Microstructure and Properties of Ultra High Strength Linepipe Steel. <i>Journal of Materials Science and Technology</i> , 2012 , 28, 889-894	9.1	7
163	Analysis and estimation of yield strength of API X80 linepipe steel pipe by low-cycle fatigue tests. <i>Metals and Materials International</i> , 2012 , 18, 597-606	2.4	5
162	In-situ neutron diffraction analysis on deformation behavior of duplex high Mn steel containing austenite and e-martensite. <i>Metals and Materials International</i> , 2012 , 18, 751-755	2.4	16
161	Mechanical Properties and High-Temperature Oxidation Behavior of Mg-Al-Zn-Ca-Y Magnesium Alloys 2012 , 217-219		
160	Effects of carbon equivalent and cooling rate on tensile and Charpy impact properties of high-strength bainitic steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 530, 530-538	5.3	35

159	Cladding of Mg alloy with Al by twin-roll casting. Scripta Materialia, 2011, 64, 836-839	5.6	96
158	Realization of high tensile ductility in a bulk metallic glass composite by the utilization of deformation-induced martensitic transformation. <i>Scripta Materialia</i> , 2011 , 65, 304-307	5.6	71
157	Microstructure and tensile properties of high-strength high-ductility Ti-based amorphous matrix composites containing ductile dendrites. <i>Acta Materialia</i> , 2011 , 59, 7277-7286	8.4	109
156	Correlation study of microstructure, hardness, and Charpy impact properties in heat affected zones of three API X80 linepipe steels containing complex oxides. <i>Metals and Materials International</i> , 2011 , 17, 29-40	2.4	12
155	Effect of Carbon Content on Cracking Phenomenon Occurring during Cold Rolling of Three Light-Weight Steel Plates. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011 , 42, 138-146	2.3	59
154	Effects of Rolling and Cooling Conditions on Microstructure and Tensile and Charpy Impact Properties of Ultra-Low-Carbon High-Strength Bainitic Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011 , 42, 1827-1835	2.3	23
153	Effects of Specimen Thickness and Notch Shape on Fracture Modes in the Drop Weight Tear Test of API X70 and X80 Linepipe Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011 , 42, 2619-2632	2.3	23
152	Cracking Phenomenon Occurring in Bi-SBased Free-Machining Steel Wire Rods During Hot Rolling. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011 , 42, 3095-310	05 ^{2.3}	5
151	Effects of Al addition on deformation and fracture mechanisms in two high manganese TWIP steels. <i>Materials Science & Microstructure and Processing</i> , 2011 , 528, 2922-2928	5.3	141
150	Effects of acicular ferrite on charpy impact properties in heat affected zones of oxide-containing API X80 linepipe steels. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2011 , 528, 3350-3357	5.3	72
149	Correlation of Microstructure and Cracking Phenomenon Occurring during Hot Rolling of Lightweight Steel Plates. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010 , 41, 138-148	2.3	40
148	Effects of Cooling Conditions on Tensile and Charpy Impact Properties of API X80 Linepipe Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010 , 41, 329-340	2.3	65
147	Effects of Strain Rate and Test Temperature on Torsional Deformation Behavior of API X70 and X80 Linepipe Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010 , 41, 1961-1972	2.3	3
146	Microstructure and texture evolution of Mg alloys during twin-roll casting and subsequent hot rolling. <i>Scripta Materialia</i> , 2010 , 63, 716-720	5.6	66
145	Effect of aging on the microstructure and deformation behavior of austenite base lightweight FeØ8MnØAlØ.8C steel. <i>Scripta Materialia</i> , 2010 , 63, 1028-1031	5.6	150
144	Fracture Mechanisms of Cold-Rolled Light-Weight Steel Plates Containing Different Carbon Content. <i>Journal of Korean Institute of Metals and Materials</i> , 2010 , 48, 377-386	1	5
143	Charpy Impact Properties of Heat Affected Zones of API X80 Linepipe Steels Containing Complex Oxides. <i>Journal of Korean Institute of Metals and Materials</i> , 2010 , 48, 875-883	1	13
142	Room Temperature Formability of Mg Alloys. <i>Materials Science Forum</i> , 2009 , 618-619, 463-466	0.4	2

141	Twin-Roll Cast Al-Clad Magnesium Alloy. Materials Science Forum, 2009, 618-619, 467-470	0.4	7
140	Superplastic deformation behavior of twin-roll cast MgBZnIIMnIIAl alloy. <i>Scripta Materialia</i> , 2009 , 61, 223-226	5.6	39
139	Relationship between stretch formability and work-hardening capacity of twin-roll cast Mg alloys at room temperature. <i>Scripta Materialia</i> , 2009 , 61, 768-771	5.6	133
138	The twin-roll casting of magnesium alloys. <i>Jom</i> , 2009 , 61, 14-18	2.1	60
137	Effects of Mo, Cr, and V Additions on Tensile and Charpy Impact Properties of API X80 Pipeline Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009 , 40, 1851-1862	2.3	39
136	Effect of Ca addition on microstructure of twin-roll cast AZ31 Mg alloy. <i>Metals and Materials International</i> , 2009 , 15, 1-5	2.4	50
135	Atomistic Modeling of pure Mg and MgAl systems. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2009 , 33, 650-657	1.9	88
134	Microstructure and tensile properties of hot-rolled FeជMnBiជu multiphase steel. <i>Scripta Materialia</i> , 2008 , 59, 83-86	5.6	8
133	Mechanical Properties and Microstructure of Twin-Roll Cast Mg-Zn-Y Alloy. <i>Materials Transactions</i> , 2008 , 49, 980-985	1.3	8
132	Effect of Sb and Sr Additions on the Microstructural Evolution of Mg-Sn-Al-Si Based Alloys. <i>Materials Transactions</i> , 2008 , 49, 936-940	1.3	5
131	Effects of critical plasma spray parameter and spray distance on wear resistance of Al2O3BIwt.%TiO2 coatings plasma-sprayed with nanopowders. <i>Surface and Coatings Technology</i> , 2008 , 202, 3625-3632	4.4	58
130	Microstructure and Mechanical Properties of Two Continuous-Fiber-Reinforced Zr-Based Amorphous Alloy Composites Fabricated by Liquid Pressing Process. <i>Metallurgical and Materials</i> <i>Transactions A: Physical Metallurgy and Materials Science</i> , 2008 , 39, 763-771	2.3	20
129	Microstructure and mechanical properties of powder-injection-molded products of Cu-based amorphous powders and Fe-based metamorphic powders. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 476, 69-77	5.3	13
128	Transformation behavior and microstructural characteristics of acicular ferrite in linepipe steels. <i>Materials Science & Materials Science & Materials Science & Microstructure and Processing</i> , 2008 , 478, 361-370	5.3	100
127	Improvement of the plasticity of bulk amorphous alloys via a low-angle shear-deforming process. <i>Materials Science & Amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 487, 400-404	5.3	3
126	Design of high performance structural alloys using second phases. <i>Materials Science & Design of high performance structural alloys using second phases. Materials Science & Design of high performance structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 51-56	5.3	16
125	Microstructural evolution in twin-roll strip cast MgInMnAl alloy. <i>Materials Science & Materials Science & Mosterials Science & Mosteri</i>	5.3	50
124	Effect of alloying elements on the crystallization kinetics of Mgtuty, Gd) bulk amorphous alloys. <i>Materials Science & Microstructure and Processing</i> , 2007 , 449-451, 489-492	5.3	9

123	Correlation of microstructure and charpy impact properties in API X70 and X80 line-pipe steels. <i>Materials Science & Materials Science & Materials Science & Materials Science & Microstructure and Processing</i> , 2007 , 458, 281-289	5.3	128
122	In situ fracture observation and fracture toughness analysis of Zr-based bulk amorphous alloys. <i>Materials Science & Materials: Properties, Microstructure and Processing</i> , 2007 , 464, 261-268	5.3	8
121	Deformation behavior of strip-cast bulk amorphous matrix composites containing various crystalline particles. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 176-180	5.3	6
120	Effect of nano-particles on the creep resistance of MgBn based alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 318-321	5.3	74
119	Wear resistance and thermal conductivity of Zr-base amorphous alloy/metal surface composites fabricated by high-energy electron beam irradiation. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 937-940	5.3	13
118	Microstructure and tensile properties of twin-roll cast MgInMnAl alloys. <i>Scripta Materialia</i> , 2007 , 57, 793-796	5.6	132
117	Effects of Molybdenum and Vanadium Addition on Tensile and Charpy Impact Properties of API X70 Linepipe Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2007 , 38, 1731-1742	2.3	49
116	Dynamic Deformation and Fracture Behavior of Zr-Based Bulk Metallic Glasses. <i>Key Engineering Materials</i> , 2007 , 345-346, 629-632	0.4	
115	Microstructure and Mechanical Properties of Twin-Roll Strip Cast Mg Alloys. <i>Materials Science Forum</i> , 2007 , 539-543, 119-126	0.4	20
114	Microfracture Observation of Zr-Based Bulk Metallic Glasses. <i>Key Engineering Materials</i> , 2007 , 345-346, 645-648	0.4	
113	Synthesis of Zr-Based Glassy Alloy Foams. Advanced Materials Research, 2007, 26-28, 739-742	0.5	
112	Applications of thermodynamic calculations to Mg alloy design: MgBn based alloy development. <i>International Journal of Materials Research</i> , 2007 , 98, 807-815	0.5	17
111	Twin-Roll Strip Casting of Iron-Base Amorphous Alloys. <i>Materials Transactions</i> , 2007 , 48, 1584-1588	1.3	13
110	Estimation of Relative Glass Forming Abilities of Multicomponent Alloy Systems. <i>Materials Transactions</i> , 2007 , 48, 1671-1674	1.3	
109	Estimation of Glass Forming Ability of Amorphous Alloys Based on the Thermal Analysis Data during Cooling. <i>Materials Transactions</i> , 2007 , 48, 1501-1504	1.3	1
108	Thermodynamic modeling of the MgBiBn system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2007 , 31, 192-200	1.9	116
107	Correlation of crack-tip opening angle for stable crack propagation with charpy and drop-weight tear test properties in high-toughness API X70 pipeline steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2006 , 37, 371-380	2.3	3
106	Correlation of microstructure and wear resistance of Al2O3-TiO2 coatings plasma sprayed with nanopowders. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2006, 37, 1851-1861	2.3	41

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105	Relationship between yield ratio and the material constants of the Swift equation. <i>Metals and Materials International</i> , 2006 , 12, 131-135	2.4	32
104	Dynamic deformation and fracture behaviors of two Zr-based amorphous alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2006 , 37, 2893-2897	2.3	15
103	Solidification Behavior of Fe-Base Amorphous Alloys during Twin-Roll Strip Casting. <i>Advanced Materials Research</i> , 2006 , 15-17, 433-438	0.5	
102	Friction-Stir Welding and Surface-Friction Welding of Twin-Roll Strip Cast ZMA611 Mg Alloy. <i>Advanced Materials Research</i> , 2006 , 15-17, 333-338	0.5	2
101	Effect of Second Phase on Mechanical Properties of Bainite-Base Steels. <i>Advanced Materials Research</i> , 2006 , 15-17, 780-785	0.5	3
100	Continuous fabrication of bulk amorphous alloy sheets by twin-roll strip casting. <i>Intermetallics</i> , 2006 , 14, 987-993	3.5	29
99	Correlation of microstructure with hardness and wear resistance of stainless steel blend coatings fabricated by atmospheric plasma spraying. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2006 , 429, 189-195	5.3	17
98	Constitutive analysis on the superplastic deformation of warm-rolled 6013 Al alloy. <i>Materials Science & Microstructure and Processing</i> , 2006 , 435-436, 687-692	5.3	22
97	Microstructural development of adiabatic shear bands in ultra-fine-grained low-carbon steels fabricated by equal channel angular pressing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2006 , 441, 308-320	5.3	42
96	Microstructure and wear resistance of nanostructured Al2O3Bwt.%TiO2 coatings plasma-sprayed with nanopowders. <i>Surface and Coatings Technology</i> , 2006 , 201, 1309-1315	4.4	56
95	Hardness and wear resistance of Zr-based bulk metallic glass/Ti surface composites fabricated by high-energy electron beam irradiation. <i>Surface and Coatings Technology</i> , 2006 , 201, 1620-1628	4.4	15
94	Wear and thermal properties of Zr-based amorphous surface alloyed materials fabricated by high-energy electron beam irradiation. <i>Journal of Alloys and Compounds</i> , 2005 , 400, 171-177	5.7	4
93	Development of Strip Casting Process for Fabrication of Wrought Mg Alloys. <i>Materials Science Forum</i> , 2005 , 488-489, 431-434	0.4	16
92	Effects of crystalline particles on mechanical properties of strip-cast Zr-base bulk amorphous alloy. <i>Materials Science & Amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 390, 427-436	5.3	14
91	Kinetics of crystallization in continuously cooled BMG. <i>Materials Science & Discourse Amp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2005 , 404, 153-158	5.3	11
90	Fabrication of Zr- and Cu-base bulk metallic glass/Cu surface composites by high-energy electron-beam irradiation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 408, 92-101	5.3	8
89	Development of creep resistant die cast MgBnAlBi alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 413-414, 555-560	5.3	174
88	Prediction of composition dependency of glass forming ability of Mgtut alloys by thermodynamic approach. <i>Scripta Materialia</i> , 2005 , 52, 969-972	5.6	47

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