

# Nack J Kim

## List of Publications by Citations

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#	Paper	IF	Citations
230	Brittle intermetallic compound makes ultrastrong low-density steel with large ductility. <i>Nature</i> , <b>2015</b> , 518, 77-9	50.4	359
229	Fe-Al-Mn-C lightweight structural alloys: a review on the microstructures and mechanical properties. <i>Science and Technology of Advanced Materials</i> , <b>2013</b> , 14, 014205	7.1	250
228	Current issues in magnesium sheet alloys: Where do we go from here?. <i>Scripta Materialia</i> , <b>2014</b> , 84-85, 1-6	5.6	220
227	Designing a magnesium alloy with high strength and high formability. <i>Nature Communications</i> , <b>2018</b> , 9, 2522	17.4	192
226	Development of creep resistant die cast Mg <sub>80</sub> Al <sub>10</sub> Si alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2005</b> , 413-414, 555-560	5.3	174
225	Modification of Mg <sub>2</sub> Si morphology in squeeze cast Mg-Al-Zn-Si alloys by Ca or P addition. <i>Scripta Materialia</i> , <b>1999</b> , 41, 333-340	5.6	153
224	Effect of aging on the microstructure and deformation behavior of austenite base lightweight Fe <sub>0.8</sub> Mn <sub>0.8</sub> Al <sub>0.8</sub> C steel. <i>Scripta Materialia</i> , <b>2010</b> , 63, 1028-1031	5.6	150
223	Effects of Al addition on deformation and fracture mechanisms in two high manganese TWIP steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 2922-2928	5.3	141
222	Deformation behavior of ferrite-austenite duplex lightweight Fe <sub>0.8</sub> Mn <sub>0.8</sub> Al <sub>0.8</sub> C steel. <i>Scripta Materialia</i> , <b>2012</b> , 66, 519-522	5.6	138
221	Relationship between stretch formability and work-hardening capacity of twin-roll cast Mg alloys at room temperature. <i>Scripta Materialia</i> , <b>2009</b> , 61, 768-771	5.6	133
220	Microstructure and tensile properties of twin-roll cast Mg <sub>70</sub> Mn <sub>10</sub> Al alloys. <i>Scripta Materialia</i> , <b>2007</b> , 57, 793-796	5.6	132
219	Correlation of microstructure and charpy impact properties in API X70 and X80 line-pipe steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 458, 281-289	5.3	128
218	Effects of Mn and Al contents on cryogenic-temperature tensile and Charpy impact properties in four austenitic high-Mn steels. <i>Acta Materialia</i> , <b>2015</b> , 100, 39-52	8.4	117
217	Thermodynamic modeling of the Mg <sub>80</sub> Al <sub>10</sub> Si system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , <b>2007</b> , 31, 192-200	1.9	116
216	Novel ferrite-austenite duplex lightweight steel with 77% ductility by transformation induced plasticity and twinning induced plasticity mechanisms. <i>Acta Materialia</i> , <b>2014</b> , 78, 181-189	8.4	111
215	Effective grain size and charpy impact properties of high-toughness X70 pipeline steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2005</b> , 36, 2107-2114	2.3	110
214	Texture Evolution in Mg-Zn-Ca Alloy Sheets. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2013</b> , 44, 2950-2961	2.3	109

213	Microstructure and tensile properties of high-strength high-ductility Ti-based amorphous matrix composites containing ductile dendrites. <i>Acta Materialia</i> , <b>2011</b> , 59, 7277-7286	8.4	109
212	Effects of alloying elements on microstructure, hardness, and fracture toughness of centrifugally cast high-speed steel rolls. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2005</b> , 36, 87-97	2.3	101
211	Transformation behavior and microstructural characteristics of acicular ferrite in linepipe steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 478, 361-370	5.3	100
210	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> , <b>2015</b> , 96, 301-310	8.4	99
209	Cladding of Mg alloy with Al by twin-roll casting. <i>Scripta Materialia</i> , <b>2011</b> , 64, 836-839	5.6	96
208	Effect of Sn addition on the microstructure and deformation behavior of Mg-3Al alloy. <i>Acta Materialia</i> , <b>2017</b> , 124, 268-279	8.4	94
207	Atomistic Modeling of pure Mg and MgAl systems. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , <b>2009</b> , 33, 650-657	1.9	88
206	Critical Assessment 6: Magnesium sheet alloys: viable alternatives to steels?. <i>Materials Science and Technology</i> , <b>2014</b> , 30, 1925-1928	1.5	84
205	Microstructural investigation of nanocrystalline bulk AlMg alloy fabricated by cryomilling and extrusion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2004</b> , 374, 211-216	5.3	76
204	Effect of nano-particles on the creep resistance of MgSn based alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 449-451, 318-321	5.3	74
203	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> , <b>2011</b> , 528, 3350-3357	5.3	72
202	Realization of high tensile ductility in a bulk metallic glass composite by the utilization of deformation-induced martensitic transformation. <i>Scripta Materialia</i> , <b>2011</b> , 65, 304-307	5.6	71
201	Microstructure and properties of titanium boride dispersed Cu alloys fabricated by spray forming. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2000</b> , 277, 274-283	5.3	71
200	Novel medium-Mn (austenite+martensite) duplex hot-rolled steel achieving 1.6GPa strength with 20 % ductility by Mn-segregation-induced TRIP mechanism. <i>Acta Materialia</i> , <b>2018</b> , 147, 247-260	8.4	70
199	The influence of reinforced particle fracture on strengthening of spray formed Cu-TiB2 composite. <i>Scripta Materialia</i> , <b>1998</b> , 39, 1063-1069	5.6	67
198	Correlation of fatigue properties and microstructure in investment cast Ti-6Al-4V welds. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2003</b> , 340, 232-242	5.3	67
197	Microstructure and texture evolution of Mg alloys during twin-roll casting and subsequent hot rolling. <i>Scripta Materialia</i> , <b>2010</b> , 63, 716-720	5.6	66
196	Effect of T1 precipitate on the anisotropy of AlLi alloy 2090. <i>Acta Metallurgica Et Materialia</i> , <b>1993</b> , 41, 941-948		66

195	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> , <b>2010</b> , 41, 329-340	2.3	65
194	Effect of Mg <sub>2</sub> Si particles on the elevated temperature tensile properties of squeeze-cast Mg-Al alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2004</b> , 35, 1629-1632	2.3	61
193	The twin-roll casting of magnesium alloys. <i>Jom</i> , <b>2009</b> , 61, 14-18	2.1	60
192	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> , <b>2011</b> , 42, 138-146	2.3	59
191	Novel ultra-high-strength Cu-containing medium-Mn duplex lightweight steels. <i>Acta Materialia</i> , <b>2017</b> , 135, 215-225	8.4	58
190	Effects of critical plasma spray parameter and spray distance on wear resistance of Al <sub>2</sub> O <sub>3</sub> /8wt.%TiO <sub>2</sub> coatings plasma-sprayed with nanopowders. <i>Surface and Coatings Technology</i> , <b>2008</b> , 202, 3625-3632	4.4	58
189	Microstructure and wear resistance of nanostructured Al <sub>2</sub> O <sub>3</sub> /8wt.%TiO <sub>2</sub> coatings plasma-sprayed with nanopowders. <i>Surface and Coatings Technology</i> , <b>2006</b> , 201, 1309-1315	4.4	56
188	Effect of Ca addition on microstructure of twin-roll cast AZ31 Mg alloy. <i>Metals and Materials International</i> , <b>2009</b> , 15, 1-5	2.4	50
187	Microstructural evolution in twin-roll strip cast Mg <sub>70</sub> Zn <sub>10</sub> Mn <sub>10</sub> Al alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 449-451, 352-355	5.3	50
186	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> , <b>2007</b> , 38, 1731-1742	2.3	49
185	Analysis of abnormal fracture occurring during drop-weight tear test of high-toughness line-pipe steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2004</b> , 368, 18-27	5.3	48
184	Twinning-mediated formability in Mg alloys. <i>Scientific Reports</i> , <b>2016</b> , 6, 22364	4.9	48
183	Prediction of composition dependency of glass forming ability of Mg <sub>70</sub> Cu <sub>30</sub> alloys by thermodynamic approach. <i>Scripta Materialia</i> , <b>2005</b> , 52, 969-972	5.6	47
182	Correlation of microstructure and fracture properties of API X70 pipeline steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2005</b> , 36, 725-739	2.3	46
181	Effective grain size of dual-phase steel. <i>Materials Science and Engineering</i> , <b>1986</b> , 83, 145-149		46
180	Quasi-static and dynamic deformation mechanisms interpreted by microstructural evolution in Twinning Induced Plasticity (TWIP) steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 684, 54-63	5.3	43
179	Effect of boron on the hot ductility of Nb-containing steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2002</b> , 33, 701-704	2.3	43
178	Interpretation of cryogenic-temperature Charpy impact toughness by microstructural evolution of dynamically compressed specimens in austenitic 0.4C(2206)Mn steels. <i>Acta Materialia</i> , <b>2015</b> , 87, 332-343	8.4	42

177	Microstructural development of adiabatic shear bands in ultra-fine-grained low-carbon steels fabricated by equal channel angular pressing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2006</b> , 441, 308-320	5.3	42
176	Microstructural evolution and deformation behavior of twinning-induced plasticity (TWIP) steel during wire drawing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 644, 41-52	5.3	41
175	Correlation of microstructure and wear resistance of Al <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> coatings plasma sprayed with nanopowders. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2006</b> , 37, 1851-1861	2.3	41
174	Microstructure and Mechanical Properties of Strip Cast Al-Mg-Si-X Alloys. <i>Materials Transactions</i> , <b>2003</b> , 44, 2617-2624	1.3	41
173	Effects of HIPping on high-cycle fatigue properties of investment cast A356 aluminum alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2003</b> , 340, 123-129	5.3	41
172	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> , <b>2012</b> , 43, 843-853	2.3	40
171	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> , <b>2010</b> , 41, 138-148	2.3	40
170	Twinning behavior of Mg <sub>3</sub> Zn <sub>2</sub> Gd alloy sheet during longitudinal tensile deformation. <i>Scripta Materialia</i> , <b>2013</b> , 69, 465-468	5.6	39
169	Superplastic deformation behavior of twin-roll cast Mg <sub>3</sub> Zn <sub>2</sub> Mn <sub>2</sub> Al alloy. <i>Scripta Materialia</i> , <b>2009</b> , 61, 223-226	5.6	39
168	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> , <b>2009</b> , 40, 1851-1862	2.3	39
167	Correlation of the microstructure and mechanical properties of oxide-dispersion-strengthened coppers fabricated by internal oxidation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2004</b> , 35, 493-502	2.3	39
166	Correlation of rolling condition, microstructure, and low-temperature toughness of X70 pipeline steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2005</b> , 36, 1793-1805	2.3	39
165	Origin of intergranular fracture in martensitic 8Mn steel at cryogenic temperatures. <i>Scripta Materialia</i> , <b>2013</b> , 69, 420-423	5.6	37
164	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> , <b>2014</b> , 45, 5419-5430	2.3	35
163	Effects of carbon equivalent and cooling rate on tensile and Charpy impact properties of high-strength bainitic steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 530, 530-538	5.3	35
162	Improvement of strength-ductility balance of B2-strengthened lightweight steel. <i>Acta Materialia</i> , <b>2020</b> , 191, 1-12	8.4	34
161	Deformation behavior of duplex austenite and -martensite high-Mn steel. <i>Science and Technology of Advanced Materials</i> , <b>2013</b> , 14, 014204	7.1	34
160	Effects of Nb and C additions on the microstructure and tensile properties of lightweight ferritic Fe <sub>80</sub> Al <sub>10</sub> Mn alloy. <i>Scripta Materialia</i> , <b>2014</b> , 89, 37-40	5.6	32

159	Relationship between yield ratio and the material constants of the Swift equation. <i>Metals and Materials International</i> , <b>2006</b> , 12, 131-135	2.4	32
158	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> , <b>2012</b> , 43, 1870-1883	2.3	31
157	Microstructural evolution of liquid metal embrittlement in resistance-spot-welded galvanized TWinning-Induced Plasticity (TWIP) steel sheets. <i>Materials Characterization</i> , <b>2019</b> , 147, 233-241	3.9	31
156	In-situ microfracture observation of strip-cast Zr-Ti-Cu-Ni-Be bulk metallic glass alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2004</b> , 35, 3753-3761	2.3	30
155	Effect of reduction of area on microstructure and mechanical properties of twinning-induced plasticity steel during wire drawing. <i>Metals and Materials International</i> , <b>2015</b> , 21, 815-822	2.4	29
154	Continuous fabrication of bulk amorphous alloy sheets by twin-roll strip casting. <i>Intermetallics</i> , <b>2006</b> , 14, 987-993	3.5	29
153	Microstructural analysis of multilayered titanium aluminide sheets fabricated by hot rolling and heat treatment. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2002</b> , 33, 3649-3659	2.3	29
152	Mechanical property and fracture behavior of strip cast Zr-base BMG alloy containing crystalline phase. <i>Intermetallics</i> , <b>2004</b> , 12, 1125-1131	3.5	29
151	Cu addition effects on TRIP to TWIP transition and tensile property improvement of ultra-high-strength austenitic high-Mn steels. <i>Acta Materialia</i> , <b>2019</b> , 166, 246-260	8.4	28
150	Tensile and Creep Properties of Squeeze Cast Mg Alloys with Various Second Phases. <i>Materials Science Forum</i> , <b>2003</b> , 419-422, 419-424	0.4	27
149	Thermodynamic approach for predicting the glass forming ability of amorphous alloys. <i>Intermetallics</i> , <b>2004</b> , 12, 1103-1107	3.5	26
148	Dynamic tension-compression asymmetry of martensitic transformation in austenitic Fe(0.4, 1.0)C(18Mn steels for cryogenic applications. <i>Acta Materialia</i> , <b>2015</b> , 96, 37-46	8.4	25
147	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> , <b>2012</b> , 541, 181-189	5.3	25
146	Hardness improvement of TiB <sub>2</sub> /Ti surface-alloyed material fabricated by high-energy electron beam irradiation. <i>Scripta Materialia</i> , <b>1998</b> , 39, 1389-1394	5.6	25
145	Evolution of microstructure in a rapidly solidified Al-Fe-V-Si alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1994</b> , 189, 291-299	5.3	25
144	Fracture mechanisms of a 2124 aluminum. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , <b>1992</b> , 23, 2589-2596		25
143	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> , <b>2017</b> , 137, 18-21	5.6	24
142	Effect of secondary phase particles on the tensile behavior of Mg-Zn-Ca alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 735, 288-294	5.3	24

141	Effects of microstructure on inverse fracture occurring during drop-weight tear testing of high-toughness X70 pipeline steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2005</b> , 36, 371-387	2.3	24
140	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> , <b>2011</b> , 42, 1827-1835	2.3	23
139	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> , <b>2011</b> , 42, 2619-2632	2.3	23
138	Orientation dependence of microfracture behavior in a dual-phase high-strength low-alloy steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>1997</b> , 28, 504-509	2.3	22
137	Constitutive analysis on the superplastic deformation of warm-rolled 6013 Al alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2006</b> , 435-436, 687-692	5.3	22
136	Structure and decomposition behaviour of rapidly solidified Mg <sub>2</sub> Nd <sub>2</sub> X (X = Al, Si) Alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1994</b> , 179-180, 637-640	5.3	22
135	Effect of B2 morphology on the mechanical properties of B2-strengthened lightweight steels. <i>Scripta Materialia</i> , <b>2019</b> , 165, 68-72	5.6	22
134	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> , <b>2015</b> , 21, 79-84	2.4	21
133	Microstructural modification and hardness improvement in boride/TiBAl <sub>2</sub> V surface-alloyed materials fabricated by high-energy electron beam irradiation. <i>Scripta Materialia</i> , <b>2001</b> , 45, 1-6	5.6	21
132	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> , <b>2015</b> , 46, 545-548	2.3	20
131	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> , <b>2013</b> , 44, 776-786	2.3	20
130	Microstructure and Mechanical Properties of Two Continuous-Fiber-Reinforced Zr-Based Amorphous Alloy Composites Fabricated by Liquid Pressing Process. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2008</b> , 39, 763-771	2.3	20
129	Microstructure and Mechanical Properties of Twin-Roll Strip Cast Mg Alloys. <i>Materials Science Forum</i> , <b>2007</b> , 539-543, 119-126	0.4	20
128	Fabrication of Mg Alloy Strips by Strip Casting. <i>Materials Science Forum</i> , <b>2003</b> , 419-422, 599-604	0.4	20
127	Development of Creep Resistant Mg Alloys. <i>Materials Science Forum</i> , <b>2005</b> , 475-479, 521-524	0.4	20
126	Analysis and prevention of edge cracking phenomenon during hot rolling of non-oriented electrical steel sheets. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1999</b> , 264, 47-59	5.3	20
125	{100} texture evolution in bcc Fe sheets - Computational design and experiments. <i>Acta Materialia</i> , <b>2016</b> , 106, 106-116	8.4	18
124	Deformation behavior of ferrite-austenite duplex high nitrogen steel. <i>Metals and Materials International</i> , <b>2014</b> , 20, 35-39	2.4	18

123	Development of Mg Alloy Sheets via Strip Casting. <i>Materials Science Forum</i> , <b>2005</b> , 475-479, 457-462	0.4	18
122	Segregation in twin-roll cast Mg alloy and its suppression through alloy design. <i>Materials Letters</i> , <b>2014</b> , 132, 361-364	3.3	17
121	Dislocation evolution with creep strain and dislocation emission related with $\beta$ -phase dissolution. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1997</b> , 239-240, 457-463	5.3	17
120	Applications of thermodynamic calculations to Mg alloy design: Mg <sub>91</sub> Ni <sub>9</sub> based alloy development. <i>International Journal of Materials Research</i> , <b>2007</b> , 98, 807-815	0.5	17
119	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> , <b>2006</b> , 429, 189-195	5.3	17
118	Correlation of microstructure and fracture toughness in high-chromium white iron hardfacing alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>1996</b> , 27, 3881-3891	2.3	17
117	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 &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 693, 170-177	5.3	16
116	In-situ neutron diffraction analysis on deformation behavior of duplex high Mn steel containing austenite and e-martensite. <i>Metals and Materials International</i> , <b>2012</b> , 18, 751-755	2.4	16
115	Design of high performance structural alloys using second phases. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 449-451, 51-56	5.3	16
114	Development of Strip Casting Process for Fabrication of Wrought Mg Alloys. <i>Materials Science Forum</i> , <b>2005</b> , 488-489, 431-434	0.4	16
113	Fabrication of multilayered titanium aluminide sheets by self-propagating high-temperature synthesis reaction using hot rolling and heat treatment. <i>Journal of Materials Science</i> , <b>2003</b> , 38, 3647-3654	4.3	16
112	Correlation of microstructure and fracture toughness of a rapid solidification-powder metallurgy Al <sub>70</sub> Fe <sub>10</sub> V <sub>10</sub> Si alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1991</b> , 147, 33-44	5.3	16
111	In situ observation of microfracture processes in an 8090 Al <sub>70</sub> Li alloy plate. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1993</b> , 163, 11-21	5.3	16
110	Effects of Al addition on tensile properties of partially recrystallized austenitic TRIP/TWIP steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 806, 140823	5.3	16
109	Dynamic deformation and fracture behaviors of two Zr-based amorphous alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2006</b> , 37, 2893-2897	2.3	15
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