Chong Soo Lee

List of Publications by Year in Descending Order

290 papers	8,148 citations	48 h-index	76 g-index
296 ext. papers	9,123 ext. citations	3.9 avg, IF	6.22 L-index

#	Paper	IF	Citations
290	Origin of superior low-cycle fatigue resistance of an interstitial metastable high-entropy alloy. *Journal of Materials Science and Technology*, **2022**, 115, 115-128	9.1	2
289	Interface characteristics and mechanical behavior of additively manufactured multi-material of stainless steel and Inconel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2022**, 847, 143318	5.3	2
288	Tailoring Extra-Strength of a TWIP Steel by Combination of Multi-Pass Equal-Channel Angular Pressing and Warm Rolling. *Metals*, **2021**, 11, 518	2.3	5
287	Effect of grain size on the low-cycle fatigue behavior of carbon-containing high-entropy alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2021**, 810, 140985	5.3	7
286	Effect of tempering duration on hydrogen embrittlement of vanadium-added tempered martensitic steel. *International Journal of Hydrogen Energy*, **2021**, 46, 19670-19681	6.7	7
285	Effect of bainite fraction on hydrogen embrittlement of bainite/martensite steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 814, 141226	5.3	2
284	Effect of Type-B liquid metal embrittlement cracks on high-cycle fatigue properties of spot-welded 1180 TRIP steel. *Science and Technology of Welding and Joining*, **2021**, 26, 173-179	3.7	1
283	Effect of type-C liquid metal embrittlement on mechanical properties of spot-welded TRIP steel. *Journal of Materials Research and Technology*, **2021**, 13, 2482-2490	5.5	6
282	Microstructural evolution and mechanical properties of nanocrystalline Fe□Mn□Al□C steel processed by high-pressure torsion. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 827, 142073	5.3	1
281	Comparative study of tensile and high-cycle fatigue properties of extruded AZ91 and AZ91□.3Ca□.2Y alloys. *Journal of Materials Science and Technology*, **2021**, 93, 41-52	9.1	4
280	Enhancing low-cycle fatigue life of commercially-pure Ti by deformation at cryogenic temperature. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2021**, 803, 140698	5.3	2
279	Ultrahigh high-strain-rate superplasticity in a nanostructured high-entropy alloy. *Nature Communications*, **2020**, 11, 2736	17.4	48
278	Low-cycle fatigue properties of CoCrFeMnNi high-entropy alloy compared with its conventional counterparts. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2020**, 792, 139661	5.3	18
277	Ambivalent Role of Annealing in Tensile Properties of Step-Rolled Ti-6Al-4V with Ultrafine-Grained Structure. *Metals*, **2020**, 10, 684	2.3	2
276	The role of ultrasonic nanocrystalline surface modification at elevated temperature on the hydrogen charging behavior of high-Mn steels. *Materialia*, **2020**, 9, 100626	3.2	2
275	Orientation Dependence on Plastic Flow Behavior of Hydrogen-Precharged Micropillars of High-Mn Steel. *Metals and Materials International*, **2020**, 26, 1741-1748	2.4	11
274	Constitutive Analysis of the Anisotropic Flow Behavior of Commercially Pure Titanium. *Applied Sciences (Switzerland)*, **2020**, 10, 7962	2.6	0

273	Graded Grain Structure to Improve Hydrogen-Embrittlement Resistance of TWIP Steel. *Crystals*, **2020**, 10, 1045	2.3	1
272	Microstructural Influence on Stretch Flangeability of Ferrite Martensite Dual-Phase Steels. *Crystals*, **2020**, 10, 1022	2.3	2
271	Effect of V/Mo ratio on the evolution of carbide precipitates and hydrogen embrittlement of tempered martensitic steel. *Corrosion Science*, **2020**, 176, 108929	6.8	11
270	Effect of undissolved Nb carbides on mechanical properties of hydrogen-precharged tempered martensitic steel. *Scientific Reports*, **2020**, 10, 11704	4.9	3
269	Influence of Microstructure on Low-Cycle and Extremely-Low-Cycle Fatigue Resistance of Low-Carbon Steels. *Metals and Materials International*, **2020**, 27, 3862	2.4	3
268	Comparative study on the effects of Cr, V, and Mo carbides for hydrogen-embrittlement resistance of tempered martensitic steel. *Scientific Reports*, **2019**, 9, 5219	4.9	12
267	Enhancing Superplasticity of Ultrafine-Grained Ti Al V without Imposing Severe Plastic Deformation. *Advanced Engineering Materials*, **2019**, 21, 1800115	3.5	5
266	Superplasticity of V10Cr15Mn5Fe35Co10Ni25 high-entropy alloy processed using high-pressure torsion. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 764, 138198	5.3	9
265	Hydrogen Embrittlement Behavior of 18Ni 300 Maraging Steel Produced by Selective Laser Melting. *Materials*, **2019**, 12,	3.5	6
264	SIMS investigation of internal hydrogen behavior of TWIP steel. *Journal of Surface Analysis (Online)*, **2019**, 26, 142-143	0.1	
263	Simultaneous Improvement in the Strength and Formability of Commercially Pure Titanium via Twinning-induced Crystallographic Texture Control. *Scientific Reports*, **2019**, 9, 2009	4.9	14
262	High strain-rate superplasticity of AZ91 alloy achieved by rapidly solidified flaky powder metallurgy. *Materials Letters*, **2019**, 234, 245-248	3.3	12
261	Improved cold-rollability of duplex lightweight steels utilizing deformation-induced ferritic transformation. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 742, 835-841	5.3	3
260	Dynamic deformation behavior and microstructural evolution during high-speed rolling of Mg alloy having non-basal texture. *Journal of Materials Science and Technology*, **2019**, 35, 473-482	9.1	15
259	Prediction of hole expansion ratio for various steel sheets based on uniaxial tensile properties. *Metals and Materials International*, **2018**, 24, 187-194	2.4	12
258	Grain boundary engineering approach to improve hydrogen embrittlement resistance in Fe Mn C TWIP steel. *International Journal of Hydrogen Energy*, **2018**, 43, 10129-10140	6.7	23
257	Influence of hydrogen on the grain boundary crack propagation in bcc iron: A molecular dynamics simulation. *Computational Materials Science*, **2018**, 149, 424-434	3.2	14
256	Effects of carbon content on the tensile and fatigue properties in hydrogen-charged Fe-17Mn-xC steels: The opposing trends. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 724, 469-476	5.3	10

255	Dynamic recrystallization behavior and microstructural evolution of Mg alloy AZ31 through high-speed rolling. *Journal of Materials Science and Technology*, **2018**, 34, 1747-1755	9.1	32
254	Structure and Stoichiometry of MgxZny in Hot-Dipped Zn□Mg□Al Coating Layer on Interstitial-Free Steel. *Metals and Materials International*, **2018**, 24, 1090-1098	2.4	9
253	Effect of grain boundary engineering on hydrogen embrittlement in Fe-Mn-C TWIP steel at various strain rates. *Corrosion Science*, **2018**, 142, 213-221	6.8	39
252	A crystal plasticity model for describing the anisotropic hardening behavior of steel sheets during strain-path changes. *International Journal of Plasticity*, **2018**, 111, 85-106	7.6	23
251	Coarsening kinetics of primary alpha in a near alpha titanium alloy. *Journal of Alloys and Compounds* , **2018**, 735, 1769-1777	5.7	10
250	Ultrahigh-strength CoCrFeMnNi high-entropy alloy wire rod with excellent resistance to hydrogen embrittlement. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 732, 105-111	5.3	27
249	Effects of pre-tension on fatigue behavior of rolled magnesium alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 680, 351-358	5.3	24
248	Relationship between mechanical properties and high-cycle fatigue strength of medium-carbon steels. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 690, 185-194	5.3	14
247	Anisotropic twinning and slip behaviors and their relative activities in rolled alpha-phase titanium. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2017**, 698, 54-62	5.3	16
246	Effect of the amount and temperature of prestrain on tensile and low-cycle fatigue properties of Fe-17Mn-0.5C TRIP/TWIP steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 696, 493-502	5.3	16
245	Anisotropic in-plane fatigue behavior of rolled magnesium alloy with {10□2} twins. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 700, 191-197	5.3	13
244	Increased resistance to hydrogen embrittlement in high-strength steels composed of granular bainite. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 700, 473-480	5.3	24
243	Mechanism of Martensitic to Equiaxed Microstructure Evolution during Hot Deformation of a Near-Alpha Ti Alloy. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2017**, 48, 2979-2992	2.3	8
242	Multicriteria Adaptive Observers for Singular Systems with Unknown Time-Varying Parameters. *Mathematical Problems in Engineering*, **2017**, 2017, 1-10	1.1	0
241	Effects of drawing strain and post-annealing conditions on microstructural evolution and tensile properties of medium- and high-carbon steels. *Metals and Materials International*, **2017**, 23, 1176-1187	2.4	2
240	Role of deformation twins in static recrystallization kinetics of high-purity alpha titanium. *Metals and Materials International*, **2016**, 22, 1041-1048	2.4	10
239	Influence of loading direction on the anisotropic fatigue properties of rolled magnesium alloy. *International Journal of Fatigue*, **2016**, 87, 210-215	5	25
238	Enhancing high-cycle fatigue properties of cold-drawn Fe□Mn□C TWIP steels. *International Journal of Fatigue*, **2016**, 85, 57-64	5	21

237	Nanoscale graphene coating on commercially pure titanium for accelerated bone regeneration. *RSC Advances*, **2016**, 6, 26719-26724	3.7	22
236	High Temperature Deformation Behavior and Microstructure Evolution of Ti-4Al-4Fe-0.25Si Alloy. *Journal of Korean Institute of Metals and Materials*, **2016**, 54, 338-346	1	3
235	Effect of Deformation Twinning on the Flow Stress of Rolling-Textured Pure Titanium **2016**, 1117-1119		
234	Anisotropy in twinning characteristics and texture evolution of rolling textured high purity alpha phase titanium. *Journal of Alloys and Compounds*, **2016**, 683, 92-99	5.7	34
233	Effects of vanadium carbides on hydrogen embrittlement of tempered martensitic steel. *Metals and Materials International*, **2016**, 22, 364-372	2.4	46
232	Effect of Al addition on low-cycle fatigue properties of hydrogen-charged high-Mn TWIP steels. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2016**, 677, 421-430	5.3	17
231	Abnormal texture evolution of rolled Mg3Al1Zn alloy containing initial {10-12} twins. *Scripta Materialia*, **2015**, 99, 21-24	5.6	15
230	Anisotropic yielding behavior of rolling textured high purity titanium. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 637, 215-221	5.3	48
229	Artificial neural network modeling on the relative importance of alloying elements and heat treatment temperature to the stability of and phase in titanium alloys. *Computational Materials Science*, **2015**, 107, 175-183	3.2	37
228	Surface modification of multipass caliber-rolled Ti alloy with dexamethasone-loaded graphene for dental applications. *ACS Applied Materials & Interfaces*, **2015**, 7, 9598-607	9.5	65
227	Three-dimensional real structure-based finite element analysis of mechanical behavior for porous titanium manufactured by a space holder method. *Computational Materials Science*, **2015**, 100, 2-7	3.2	23
226	Microstructural evolution and strain-hardening behavior of multi-pass caliber-rolled Ti13Nb13Zr. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2015**, 648, 359-366	5.3	25
225	Deformation anisotropy and associated mechanisms in rolling textured high purity titanium. *Journal of Alloys and Compounds*, **2015**, 651, 245-254	5.7	55
224	Role of Mo/V carbides in hydrogen embrittlement of tempered martensitic steel. *Corrosion Reviews* , **2015**, 33, 433-441	3.2	23
223	Effect of Si and Ce Addition on the Microstructure and Pitting Corrosion Resistance of Hyper-Duplex Stainless Steels. *Corrosion*, **2015**, 71, 470-482	1.8	5
222	Microstructure and deformation behavior of Ti-10V-2Fe-3Al alloy during hot forming process. *Journal Wuhan University of Technology, Materials Science Edition*, **2015**, 30, 1332-1337	1	1
221	Superior bonding properties of dissimilar steel joint produced by electroslag remelting. *Metals and Materials International*, **2015**, 21, 1054-1060	2.4	2
220	Tribological and corrosion behaviors of warm-and hot-rolled Ti-13Nb-13Zr alloys in simulated body fluid conditions. *International Journal of Nanomedicine*, **2015**, 10 Suppl 1, 207-12	7.3	5

219	Manufacturing Ultrafine-Grained Ti-6Al-4V Bulk Rod Using Multi-Pass Caliber-Rolling. *Metals*, **2015**, 5, 777-789	2.3	20
218	Role of Cu on hydrogen embrittlement behavior in Fe-Mn-C-Cu TWIP steel. *International Journal of Hydrogen Energy*, **2015**, 40, 7409-7419	6.7	32
217	Phase transformation and its effect on mechanical characteristics in warm-deformed Ti-29Nb-13Ta-4.6Zr alloy. *Metals and Materials International*, **2015**, 21, 202-207	2.4	10
216	Effects of tungsten on the hydrogen embrittlement behaviour of microalloyed steels. *Corrosion Science*, **2014**, 82, 380-391	6.8	39
215	Effects of deformation parameters on formation of pro-eutectoid cementite in hypereutectoid steels. *Journal of Central South University*, **2014**, 21, 1256-1263	2.1	1
214	Effects of dynamic recrystallisation during deep rolling of semisolid slab and heat treatment on microstructure and properties of AZ31 alloy. *Materials Science and Technology*, **2014**, 30, 309-315	1.5	4
213	Laser, tungsten inert gas, and metal active gas welding of DP780 steel: Comparison of hardness, tensile properties and fatigue resistance. *Materials & Design*, **2014**, 64, 559-565		75
212	Role of rolling temperature in the precipitation hardening characteristics of Ti-Mo microalloyed hot-rolled high strength steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 615, 255-261	5.3	30
211	Enhancing yield strength by suppressing detwinning in a rolled Mg-3Al-1Zn alloy with {10-12} twins. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 619, 328-333	5.3	14
210	Space-holder effect on designing pore structure and determining mechanical properties in porous titanium. *Materials & Design*, **2014**, 57, 712-718		51
209	Hollow cone high-pressure torsion: Microstructure and tensile strength by unique severe plastic deformation. *Scripta Materialia*, **2014**, 71, 41-44	5.6	14
208	Integrated constitutive model for flow behavior of pure Titanium considering interstitial solute concentration. *Metals and Materials International*, **2014**, 20, 1017-1025	2.4	6
207	Analysis on dynamic tensile extrusion behavior of UFG OFHC Cu. *IOP Conference Series: Materials Science and Engineering*, **2014**, 63, 012144	0.4	3
206	Enhanced low-cycle fatigue life by pre-straining in an Fe-17Mn-0.8C twinning induced plasticity steel. *Metals and Materials International*, **2014**, 20, 1043-1051	2.4	20
205	Effects of rolling temperature on the microstructure and mechanical properties of Ti-Mo microalloyed hot-rolled high strength steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 605, 244-252	5.3	73
204	Effect of the casting temperature on temperature field and microstructure of A2017 alloy during an innovative continuous semisolid rolling process with a vibrating sloping plate device. *International Journal of Advanced Manufacturing Technology*, **2013**, 67, 917-923	3.2	8
203	Effects of Tungsten Addition on the Microstructure and Mechanical Properties of Microalloyed Forging Steels. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2013**, 44, 3511-3523	2.3	10
202	Enhanced stretch formability of rolled Mg-3Al-1Zn alloy at room temperature by initial {10-12} twins. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 578, 271-276	5.3	83

201	Effect of Ce addition on secondary phase transformation and mechanical properties of 27Cr–7Ni hyper duplex stainless steels. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 573, 27-36	5.3	15
200	Microstructure tailoring to enhance strength and ductility in Ti–13Nb–13Zr for biomedical applications. *Scripta Materialia*, **2013**, 69, 785-788	5.6	39
199	Internal-variable analysis of high-temperature deformation behavior of Ti–6Al–4V: A comparative study of the strain-rate-jump and load-relaxation tests. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 562, 180-189	5.3	16
198	Dynamic tensile extrusion behavior of coarse grained and ultrafine grained OFHC Cu. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 569, 61-70	5.3	11
197	Enhancing impact fracture toughness and tensile properties of a microalloyed cast steel by hot forging and post-forging heat treatment processes. *Materials & Design*, **2013**, 47, 227-233		36
196	Effects of tungsten on continuous cooling transformation characteristics of microalloyed steels. *Materials & Design*, **2013**, 49, 252-258		11
195	Effects of tungsten addition and heat treatment conditions on microstructure and mechanical properties of microalloyed forging steels. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 562, 144-151	5.3	11
194	Development of Ti and Mo micro-alloyed hot-rolled high strength sheet steel by controlling thermomechanical controlled processing schedule. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 565, 430-438	5.3	75
193	Microstructure formation mechanism and properties of a Mg-3Sn-1Mn (wt%) magnesium alloy processed by a novel semisolid continuous shearing and rolling process. *Metals and Materials International*, **2013**, 19, 33-38	2.4	8
192	Formation of a submicrocrystalline structure in a two-phase titanium alloy without severe plastic deformation. *Scripta Materialia*, **2013**, 68, 996-999	5.6	23
191	Grain refinement effect on cryogenic tensile ductility in a Fe–Mn–C twinning-induced plasticity steel. *Materials & Design*, **2013**, 49, 234-241		47
190	In-plane anisotropic deformation behavior of rolled Mg–3Al–1Zn alloy by initial {10–12} twins. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 570, 149-163	5.3	84
189	Hydrogen Embrittlement Behavior of 430 and 445NF Ferritic Stainless Steels. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2013**, 44, 1331-1339	2.3	13
188	Hardness and microstructure of interstitial free steels in the early stage of high-pressure torsion. *Journal of Materials Science*, **2013**, 48, 4698-4704	4.3	12
187	Microstructure and properties of Mg–3Sn–1Mn (wt%) alloy processed by a novel continuous shearing and rolling and heat treatment. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 559, 194-200	5.3	7
186	Enhancing mechanical properties of a low-carbon microalloyed cast steel by controlled heat treatment. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 559, 427-435	5.3	31
185	Boundary layer and cooling rate and microstructure formation on the cooling sloping plate. *Metals and Materials International*, **2013**, 19, 949-957	2.4	2
184	Analysis of stress states in compression stage of high pressure torsion using slab analysis method and finite element method. *Metals and Materials International*, **2013**, 19, 1021-1027	2.4	16

183	Microstructure formation mechanism and properties of AZ61 alloy processed by melt treatment with vibrating cooling slope and semisolid rolling. *Metals and Materials International*, **2013**, 19, 1063-1067	2.4	11
182	Microstructure evolution during novel rheorolling process for producing A356 alloy strip. *Materials Science and Technology*, **2013**, 29, 587-593	1.5	2
181	Temperature distribution and its influence on microstructure of alloy AZ31 during semisolid rheo-rolling process. *International Journal of Cast Metals Research*, **2013**, 26, 247-254	1	5
180	Process Design Strategies for Producing Heavy Section Steel with Improved Quality. *Advanced Materials Research*, **2013**, 652-654, 988-991	0.5	
179	Effect of aluminium on hydrogen-induced fracture behaviour in austenitic Fe–Mn–C steel. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2013**, 469, 20120458	2.4	59
178	A Novel Semisolid Rheo-Rolling Process of AZ31 Alloy with Vibrating Sloping Plate. *Materials and Manufacturing Processes*, **2013**, 28, 299-305	4.1	11
177	Effect of Texture and {10-12} Twin on the Low Cycle Fatigue Properties of Rolled AZ31 Mg Alloy. *Journal of Korean Institute of Metals and Materials*, **2013**, 51, 325-332	1	6
176	The mechanism of enhanced resistance to the hydrogen delayed fracture in Al-added Fe–18Mn–0.6C twinning-induced plasticity steels. *International Journal of Hydrogen Energy*, **2012**, 37, 9925-9932	6.7	83
175	Effect of microstructure on deformation behavior of Ti–6Al–4V alloy during compressing process. *Materials & Design*, **2012**, 36, 796-803		36
174	Tensile deformation behavior of Fe–Mn–C TWIP steel with ultrafine elongated grain structure. *Materials Letters*, **2012**, 75, 169-171	3.3	62
173	Delayed static failure of twinning-induced plasticity steels. *Scripta Materialia*, **2012**, 66, 960-965	5.6	98
172	Multiple twinning modes in rolled Mg–3Al–1Zn alloy and their selection mechanism. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2012**, 532, 401-406	5.3	71
171	Role of e martensite in tensile properties and hydrogen degradation of high-Mn steels. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2012**, 533, 87-95	5.3	74
170	High-cycle fatigue characteristics of non-heat-treated steels developed for bolt applications. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2012**, 550, 118-124	5.3	5
169	Microstructure evolution and properties of Mg–3Sn–1Mn (wt%) alloy strip processed by semisolid rheo-rolling. *Journal of Materials Processing Technology*, **2012**, 212, 1430-1436	5.3	29
168	Mechanisms and Kinetics of Static Spheroidization of Hot-Worked Ti-6Al-2Sn-4Zr-2Mo-0.1Si with a Lamellar Microstructure. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2012**, 43, 977-985	2.3	52
167	Constitutive analysis of compressive deformation behavior of ELI-grade Ti–6Al–4V with different microstructures. *Journal of Materials Science*, **2012**, 47, 3115-3124	4.3	19
166	Caliber-rolled TWIP steel for high-strength wire rods with enhanced hydrogen-delayed fracture resistance. *Scripta Materialia*, **2012**, 67, 681-684	5.6	43

165	Shear band formation during hot compression of AZ31 Mg alloy sheets. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2012**, 558, 431-438	5.3	40
164	Prediction of Microstructure Evolution in Hot Backward Extrusion of Ti-6Al-4V Alloy. *Journal of Metallurgy*, **2012**, 2012, 1-6	0	2
163	Effect of Wavelike Sloping Plate Rheocasting on Microstructures of Hypereutectic Al-18 pct Si-5 pct Fe Alloys. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2012**, 43, 337-343	2.5	12
162	Effect of tungsten addition on the mechanical properties and corrosion resistance of S355NL forging steel. *Metals and Materials International*, **2012**, 18, 217-223	2.4	7
161	Mechanisms of tensile improvement in caliber-rolled high-carbon steel. *Metals and Materials International*, **2012**, 18, 391-396	2.4	15
160	Effect of deformation on hydrogen trapping and effusion in TRIP-assisted steel. *Acta Materialia*, **2012**, 60, 4085-4092	8.4	99
159	Effects of process parameters on microstructure and properties of AZ91 alloy prepared by cooling/stirring and rolling process. *International Journal of Cast Metals Research*, **2012**, 25, 225-231	1	3
158	Microstructural Aspects during the Preparation of Y3Al5O12 by Combustion Synthesis and Temperature Field Simulation. *Materials Transactions*, **2011**, 52, 685-690	1.3	
157	Improved pre-osteoblast response and mechanical compatibility of ultrafine-grained Ti-13Nb-13Zr alloy. *Clinical Oral Implants Research*, **2011**, 22, 735-742	4.8	22
156	Strain path dependence of {1 0 −1 2} twinning activity in a polycrystalline magnesium alloy. *Scripta Materialia*, **2011**, 64, 145-148	5.6	107
155	A Self-Consistent Approach for Modeling the Flow Behavior of the Alpha and Beta Phases in Ti-6Al-4V. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2011** , 42, 1805-1814	2.3	33
154	Surface structures and osteoblast response of hydrothermally produced CaTiO3 thin film on Ti−13Nb−13Zr alloy. *Applied Surface Science*, **2011**, 257, 7856-7863	6.7	19
153	A unified constitutive model for quasi-static flow responses of pure Ta and Ta−W alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2011**, 528, 1154-1161	5.3	7
152	Role of initial texture on the plastic anisotropy of Mg−3Al−1Zn alloy at various temperatures. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2011**, 528, 1162-1172	5.3	36
151	Energy-based approach to predict the fatigue life behavior of pre-strained Fe−18Mn TWIP steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2011**, 528, 4696-4702	5.3	38
150	Enhancing tensile properties of ultrafine-grained medium-carbon steel utilizing fine carbides. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2011**, 528, 6558-6564	5.3	47
149	Work hardening associated with e-martensitic transformation, deformation twinning and dynamic strain aging in Fe−17Mn−0.6C and Fe−17Mn−0.8C TWIP steels. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2011**, 528, 7310-7316	5.3	168
148	Static and Dynamic Deformation of Fully Austenitic High Mn Steels. *Procedia Engineering*, **2011**, 10, 1002-1006		16

147	Hydrogen Embrittlement of Low Carbon HSLA Steel during Slow Strain Rate Test. *Advanced Materials Research*, **2011**, 197-198, 642-645	0.5	2
146	Characterization of the interface heat transfer coefficient during non-isothermal bulk forming of Ti6Al4 V alloy. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, **2011**, 225, 1703-1712	2.4	
145	Effect of Heat Treatment on Mechanical Properties of Super Duplex Stainless Steel. *Advanced Materials Research*, **2010**, 89-91, 290-294	0.5	1
144	Anisotropic fatigue behavior of rolled Mg3Al1Zn alloy. *Journal of Materials Research*, **2010**, 25, 966-971	2.5	32
143	Enhancing the fatigue property of rolled AZ31 magnesium alloy by controlling {10-12} twinning-detwinning characteristics. *Journal of Materials Research*, **2010**, 25, 784-792	2.5	52
142	FE Analysis of Microstructure Evolution during Ring Rolling Process of a Large-Scale Ti-6Al-4V Alloy Ring. *Materials Science Forum*, **2010**, 638-642, 223-228	0.4	5
141	Predicting the Adiabatic Temperature of Transparent Y3Al5O12 Prepared via Combustion Synthesis under Ultra-High Gravity. *Materials Transactions*, **2010**, 51, 2230-2235	1.3	6
140	Factors Influencing Tensile Ductility of OFHC Cu Having Different Ultrafine Grained Structures. *Materials Transactions*, **2010**, 51, 2049-2055	1.3	8
139	Enhanced mechanical compatibility of submicrocrystalline Ti13Nb13Zr alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2010**, 527, 4914-4919	5.3	32
138	Low-temperature superplasticity and coarsening behavior of Ti6Al2Sn4Zr2Mo0.1Si. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2010**, 527, 5203-5211	5.3	42
137	On the transitions of deformation modes of fully austenitic steels at room temperature. *Metals and Materials International*, **2010**, 16, 1-6	2.4	94
136	Effect of stress state on the high temperature workability of AZ31 Mg alloy. *Metals and Materials International*, **2010**, 16, 197-203	2.4	25
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