

Chong Soo Lee

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290
papers

8,148
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296
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9,123
ext. citations

3.9
avg, IF

6.22
L-index

#	Paper	IF	Citations
290	Role of $\{10\bar{1}2\}$ twinning characteristics in the deformation behavior of a polycrystalline magnesium alloy. <i>Acta Materialia</i> , 2010 , 58, 5873-5885	8.4	536
289	Stacking fault energy and plastic deformation of fully austenitic high manganese steels: Effect of Al addition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 3651-3661	5.3	240
288	Ultrafine grained ferrite-martensite dual phase steels fabricated via equal channel angular pressing: Microstructure and tensile properties. <i>Acta Materialia</i> , 2005 , 53, 3125-3134	8.4	239
287	An analysis of the strain hardening behavior of ultra-fine grain pure titanium. <i>Scripta Materialia</i> , 2006 , 54, 1785-1789	5.6	174
286	Work hardening associated with e-martensitic transformation, deformation twinning and dynamic strain aging in Fe-7Mn-0.6C and Fe-7Mn-0.8C TWIP steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 7310-7316	5.3	168
285	Activation mode dependent $\{10\bar{1}2\}$ twinning characteristics in a polycrystalline magnesium alloy. <i>Scripta Materialia</i> , 2010 , 62, 202-205	5.6	142
284	Enhanced osteoblast response to an equal channel angular pressing-processed pure titanium substrate with microrough surface topography. <i>Acta Biomaterialia</i> , 2009 , 5, 3272-80	10.8	129
283	Hydrogen Delayed Fracture Properties and Internal Hydrogen Behavior of a Fe-8Mn-0.5Al-0.6C TWIP Steel. <i>ISIJ International</i> , 2009 , 49, 1952-1959	1.7	129
282	Strain path dependence of $\{10\bar{1}2\}$ twinning activity in a polycrystalline magnesium alloy. <i>Scripta Materialia</i> , 2011 , 64, 145-148	5.6	107
281	Microstructural analysis on boundary sliding and its accommodation mode during superplastic deformation of Ti-6Al-4V alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999 , 263, 272-280	5.3	103
280	Microstructural influences on hydrogen delayed fracture of high strength steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 505, 105-110	5.3	102
279	Effect of deformation on hydrogen trapping and effusion in TRIP-assisted steel. <i>Acta Materialia</i> , 2012 , 60, 4085-4092	8.4	99
278	Delayed static failure of twinning-induced plasticity steels. <i>Scripta Materialia</i> , 2012 , 66, 960-965	5.6	98
277	On the transitions of deformation modes of fully austenitic steels at room temperature. <i>Metals and Materials International</i> , 2010 , 16, 1-6	2.4	94
276	Effect of anisotropy on the low-cycle fatigue behavior of rolled AZ31 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 417-423	5.3	94
275	Enhanced superplasticity utilizing dynamic globularization of Ti-6Al-4V alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 496, 150-158	5.3	94
274	Constitutive analysis of the high-temperature deformation of Ti-6Al-4V with a transformed microstructure. <i>Acta Materialia</i> , 2003 , 51, 5613-5626	8.4	90

273	Low-cycle fatigue characteristics of rolled Mg ₃ Al ₂ Zn alloy. <i>International Journal of Fatigue</i> , 2010 , 32, 1835-1842	5	89
272	Effects of equal channel angular pressing temperature on deformation structures of pure Ti. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 342, 302-310	5.3	87
271	In-plane anisotropic deformation behavior of rolled Mg ₃ Al ₂ Zn alloy by initial {10 $\bar{1}$ 2} twins. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 570, 149-163	5.3	84
270	Low-temperature superplasticity of ultra-fine-grained Ti-6Al-4V processed by equal-channel angular pressing. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2006 , 37, 381-391	2.3	84
269	The mechanism of enhanced resistance to the hydrogen delayed fracture in Al-added Fe _{0.8} Mn _{0.6} C twinning-induced plasticity steels. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 9925-9932	6.7	83
268	Enhanced stretch formability of rolled Mg ₃ Al ₂ Zn alloy at room temperature by initial {10 $\bar{1}$ 2} twins. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 578, 271-276	5.3	83
267	Prediction of flow stress in Ti ₆ Al ₄ V alloy with an equiaxed β microstructure by artificial neural networks. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 492, 276-282	5.3	81
266	Laser, tungsten inert gas, and metal active gas welding of DP780 steel: Comparison of hardness, tensile properties and fatigue resistance. <i>Materials & Design</i> , 2014 , 64, 559-565		75
265	Development of Ti and Mo micro-alloyed hot-rolled high strength sheet steel by controlling thermomechanical controlled processing schedule. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 565, 430-438	5.3	75
264	Role of ϵ martensite in tensile properties and hydrogen degradation of high-Mn steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 533, 87-95	5.3	74
263	Effects of rolling temperature on the microstructure and mechanical properties of Ti ₆ Mo microalloyed hot-rolled high strength steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 605, 244-252	5.3	73
262	Osteoconductivity of hydrophilic microstructured titanium implants with phosphate ion chemistry. <i>Acta Biomaterialia</i> , 2009 , 5, 2311-21	10.8	72
261	Multiple twinning modes in rolled Mg ₃ Al ₂ Zn alloy and their selection mechanism. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 532, 401-406	5.3	71
260	Effects of temperature and initial microstructure on the equal channel angular pressing of Ti ₆ Al ₄ V alloy. <i>Scripta Materialia</i> , 2003 , 48, 197-202	5.6	70
259	Flow softening behavior during high temperature deformation of AZ31Mg alloy. <i>Journal of Materials Processing Technology</i> , 2007 , 187-188, 766-769	5.3	66
258	Surface modification of multipass caliber-rolled Ti alloy with dexamethasone-loaded graphene for dental applications. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 9598-607	9.5	65
257	Effects of microstructural factors on quasi-static and dynamic deformation behaviors of Ti-6Al-4V alloys with widmanstätten structures. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2003 , 34, 2541-2548	2.3	65
256	Tensile deformation behavior of Fe _{0.8} Mn _{0.6} TWIP steel with ultrafine elongated grain structure. <i>Materials Letters</i> , 2012 , 75, 169-171	3.3	62

255	Quantitative analysis on boundary sliding and its accommodation mode during superplastic deformation of two-phase Ti-6Al-4V alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1998 , 29, 217-226	2.3	62
254	Finite-element analysis of microstructure evolution in the cogging of an Alloy 718 ingot. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 722-726	5.3	62
253	Role of initial {1 0 2} twin in the fatigue behavior of rolled Mg ₂ Al ₃ Zn alloy. <i>Scripta Materialia</i> , 2010 , 62, 666-669	5.6	61
252	Effect of aluminium on hydrogen-induced fracture behaviour in austenitic Fe-Mn steel. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2013 , 469, 20120458 ²⁻⁴	2.4	59
251	Dissolution kinetics of delta ferrite in AISI 304 stainless steel produced by strip casting process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 356, 390-398	5.3	59
250	Deformation anisotropy and associated mechanisms in rolling textured high purity titanium. <i>Journal of Alloys and Compounds</i> , 2015 , 651, 245-254	5.7	55
249	Evaluation of bone healing with eggshell-derived bone graft substitutes in rat calvaria: a pilot study. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 87, 203-14	5.4	55
248	Mechanisms and Kinetics of Static Spheroidization of Hot-Worked Ti-6Al-2Sn-4Zr-2Mo-0.1Si with a Lamellar Microstructure. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012 , 43, 977-985	2.3	52
247	Enhancing the fatigue property of rolled AZ31 magnesium alloy by controlling {10-12} twinning-detwinning characteristics. <i>Journal of Materials Research</i> , 2010 , 25, 784-792	2.5	52
246	Space-holder effect on designing pore structure and determining mechanical properties in porous titanium. <i>Materials & Design</i> , 2014 , 57, 712-718		51
245	A study on diffusion bonding of superplastic Ti ₆ Al ₄ V ELI grade. <i>Journal of Materials Processing Technology</i> , 2007 , 187-188, 526-529	5.3	50
244	Anisotropic yielding behavior of rolling textured high purity titanium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 637, 215-221	5.3	48
243	Ultra-high high-strain-rate superplasticity in a nanostructured high-entropy alloy. <i>Nature Communications</i> , 2020 , 11, 2736	17.4	48
242	Grain refinement effect on cryogenic tensile ductility in a Fe-Mn twinning-induced plasticity steel. <i>Materials & Design</i> , 2013 , 49, 234-241		47
241	Enhancing tensile properties of ultrafine-grained medium-carbon steel utilizing fine carbides. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 6558-6564	5.3	47
240	Ring-rolling design for a large-scale ring product of Ti ₆ Al ₄ V alloy. <i>Journal of Materials Processing Technology</i> , 2007 , 187-188, 747-751	5.3	46
239	Quasi-static and dynamic deformation behavior of Ti ₆ Al ₄ V alloy containing fine η -Ti ₃ Al precipitates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 366, 25-37	5.3	46
238	Dynamic deformation behavior and ballistic impact properties of Ti-6Al-4V alloy having equiaxed and bimodal microstructures. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2004 , 35, 3103-3112	2.3	46

237	Effects of vanadium carbides on hydrogen embrittlement of tempered martensitic steel. <i>Metals and Materials International</i> , 2016 , 22, 364-372	2.4	46
236	Caliber-rolled TWIP steel for high-strength wire rods with enhanced hydrogen-delayed fracture resistance. <i>Scripta Materialia</i> , 2012 , 67, 681-684	5.6	43
235	Low-temperature superplasticity and coarsening behavior of Ti ₆ Al ₄ Sn ₄ Zr ₂ Mo _{0.1} Si. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 5203-5211	5.3	42
234	Enhancement of high strain rate superplastic elongation of a modified 5154 Al by subsequent rolling after equal channel angular pressing. <i>Scripta Materialia</i> , 2004 , 51, 479-483	5.6	42
233	Effect of thermo hydrogen treatment on lattice defects and microstructure refinement of Ti6Al4V alloy. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 6448-6454	6.7	41
232	Effects of alloy additions and tempering temperature on the sag resistance of SiCr spring steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000 , 289, 8-17	5.3	41
231	Shear band formation during hot compression of AZ31 Mg alloy sheets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 558, 431-438	5.3	40
230	Effects of microstructural morphology on quasi-static and dynamic deformation behavior of Ti-6Al-4V alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2001 , 32, 315-324	2.3	40
229	Effect of grain boundary engineering on hydrogen embrittlement in Fe-Mn-C TWIP steel at various strain rates. <i>Corrosion Science</i> , 2018 , 142, 213-221	6.8	39
228	Effects of tungsten on the hydrogen embrittlement behaviour of microalloyed steels. <i>Corrosion Science</i> , 2014 , 82, 380-391	6.8	39
227	Microstructure tailoring to enhance strength and ductility in Ti ₆ Al ₄ V for biomedical applications. <i>Scripta Materialia</i> , 2013 , 69, 785-788	5.6	39
226	Microstructure and tensile behavior of Al and Al-matrix carbon nanotube composites processed by high pressure torsion of the powders. <i>Journal of Materials Science</i> , 2010 , 45, 4652-4658	4.3	39
225	Constitutive analysis of the high-temperature deformation mechanisms of Ti ₆ Al ₄ V and Ti ₆ Al ₄ Sn ₄ Zr ₂ Mo _{0.1} Si alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 394, 366-375	5.3	39
224	Energy-based approach to predict the fatigue life behavior of pre-strained Fe ₈₀ Mn ₂₀ TWIP steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 4696-4702	5.3	38
223	Artificial neural network modeling on the relative importance of alloying elements and heat treatment temperature to the stability of β and β' phase in titanium alloys. <i>Computational Materials Science</i> , 2015 , 107, 175-183	3.2	37
222	Stress induced crystallization of amorphous materials and mechanical properties of nanocrystalline materials: a molecular dynamics simulation study. <i>Acta Materialia</i> , 2003 , 51, 6233-6240	8.4	37
221	Effect of microstructure on deformation behavior of Ti ₆ Al ₄ V alloy during compressing process. <i>Materials & Design</i> , 2012 , 36, 796-803		36
220	Enhancing impact fracture toughness and tensile properties of a microalloyed cast steel by hot forging and post-forging heat treatment processes. <i>Materials & Design</i> , 2013 , 47, 227-233		36

219	Role of initial texture on the plastic anisotropy of Mg ₃ Al ₂ Zn alloy at various temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 1162-1172	5.3	36
218	Size and distribution of particles and voids pre-existing in equal channel angular pressed 5083 Al alloy: their effect on cavitation during low-temperature superplastic deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 371, 178-186	5.3	36
217	Effect of post-rolling after ECAP on deformation behavior of ECAPed commercial AlMg alloy at 723K. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 393, 118-124	5.3	36
216	Microstructural influence on low-temperature superplasticity of ultrafine-grained Ti ₃ Al ₂ V alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 410-411, 156-159	5.3	36
215	Effect of heat treatment path on the cold formability of drawn dual-phase steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 1135-1138	5.3	35
214	Effect of interlamellar spacing on the delamination of pearlitic steel wires. <i>Scripta Materialia</i> , 1996 , 35, 641-646	5.6	34
213	Anisotropy in twinning characteristics and texture evolution of rolling textured high purity alpha phase titanium. <i>Journal of Alloys and Compounds</i> , 2016 , 683, 92-99	5.7	34
212	A Self-Consistent Approach for Modeling the Flow Behavior of the Alpha and Beta Phases in Ti-6Al-4V. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011 , 42, 1805-1814	2.3	33
211	Deformation characteristics of submicrocrystalline Ti ₃ Al ₂ V. <i>Scripta Materialia</i> , 2008 , 58, 1094-1097	5.6	33
210	Dynamic recrystallization behavior and microstructural evolution of Mg alloy AZ31 through high-speed rolling. <i>Journal of Materials Science and Technology</i> , 2018 , 34, 1747-1755	9.1	32
209	Role of Cu on hydrogen embrittlement behavior in FeMnCu TWIP steel. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 7409-7419	6.7	32
208	Anisotropic fatigue behavior of rolled Mg ₃ Al ₂ Zn alloy. <i>Journal of Materials Research</i> , 2010 , 25, 966-971	2.5	32
207	Enhanced mechanical compatibility of submicrocrystalline Ti ₃ Nb ₃ Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 4914-4919	5.3	32
206	An Improvement on Prediction of Fatigue Crack Growth from Low Cycle Fatigue Properties. <i>Engineering Fracture Mechanics</i> , 1998 , 60, 397-406	4.2	32
205	High-temperature deformation and grain-boundary characteristics of titanium alloys with an equiaxed microstructure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 485, 601-612	5.3	32
204	Effect of W addition on the low cycle fatigue behavior of high Cr ferritic steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 298, 127-136	5.3	32
203	Enhancing mechanical properties of a low-carbon microalloyed cast steel by controlled heat treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 559, 427-435	5.3	31
202	Role of rolling temperature in the precipitation hardening characteristics of TiMo microalloyed hot-rolled high strength steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 615, 255-261	5.3	30

201	Microstructural Mechanisms during Dynamic Globularization of Ti-6Al-4V Alloy. <i>Materials Transactions</i> , 2008 , 49, 2196-2200	1.3	30
200	Effect of carbon content on mechanical properties of fully pearlitic steels. <i>Materials Science and Technology</i> , 2002 , 18, 1317-1321	1.5	30
199	Microstructure evolution and properties of Mg β Sn β Mn (wt%) alloy strip processed by semisolid rheo-rolling. <i>Journal of Materials Processing Technology</i> , 2012 , 212, 1430-1436	5.3	29
198	Determination of the beta-approach curve and beta-transus temperature for titanium alloys using sensitivity analysis of a trained neural network. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 434, 218-226	5.3	28
197	Ultrahigh-strength CoCrFeMnNi high-entropy alloy wire rod with excellent resistance to hydrogen embrittlement. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 732, 105-111	5.3	27
196	Neural network modelling of flow stress in Ti β Al β V alloy with equiaxed and Widmanstätten microstructures. <i>Materials Science and Technology</i> , 2008 , 24, 294-301	1.5	26
195	High Temperature Deformation Behavior of Beta-Gamma TiAl Alloy. <i>Materials Science Forum</i> , 2007 , 539-543, 1531-1536	0.4	26
194	Microstructural evolution and strain-hardening behavior of multi-pass caliber-rolled Ti β 3Nb β 3Zr. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 648, 359-366	5.3	25
193	Influence of loading direction on the anisotropic fatigue properties of rolled magnesium alloy. <i>International Journal of Fatigue</i> , 2016 , 87, 210-215	5	25
192	Effect of stress state on the high temperature workability of AZ31 Mg alloy. <i>Metals and Materials International</i> , 2010 , 16, 197-203	2.4	25
191	Effects of pre-tension on fatigue behavior of rolled magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 680, 351-358	5.3	24
190	Increased resistance to hydrogen embrittlement in high-strength steels composed of granular bainite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 700, 473-480	5.3	24
189	Microstructure prediction of two-phase titanium alloy during hot forging using artificial neural networks and FE simulation. <i>Metals and Materials International</i> , 2009 , 15, 427-437	2.4	24
188	Effects of Sintering Conditions on the Mechanical Properties of Metal Injection Molded 316L Stainless Steel.. <i>ISIJ International</i> , 2003 , 43, 119-126	1.7	24
187	Mechanical and microstructural analysis on the superplastic deformation behavior of Ti β Al β V Alloy. <i>International Journal of Mechanical Sciences</i> , 2000 , 42, 1555-1569	5.5	24
186	Three-dimensional real structure-based finite element analysis of mechanical behavior for porous titanium manufactured by a space holder method. <i>Computational Materials Science</i> , 2015 , 100, 2-7	3.2	23
185	Role of Mo/V carbides in hydrogen embrittlement of tempered martensitic steel. <i>Corrosion Reviews</i> , 2015 , 33, 433-441	3.2	23
184	Grain boundary engineering approach to improve hydrogen embrittlement resistance in Fe Mn C TWIP steel. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 10129-10140	6.7	23

183	A crystal plasticity model for describing the anisotropic hardening behavior of steel sheets during strain-path changes. <i>International Journal of Plasticity</i> , 2018 , 111, 85-106	7.6	23
182	Formation of a submicrocrystalline structure in a two-phase titanium alloy without severe plastic deformation. <i>Scripta Materialia</i> , 2013 , 68, 996-999	5.6	23
181	Superplasticity of fine-grained 7475 Al alloy and a proposed new deformation mechanism. <i>Acta Materialia</i> , 1997 , 45, 5195-5202	8.4	23
180	Microstructural influence on fatigue properties of a high-strength spring steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1998 , 241, 30-37	5.3	23
179	Nanoscale graphene coating on commercially pure titanium for accelerated bone regeneration. <i>RSC Advances</i> , 2016 , 6, 26719-26724	3.7	22
178	Improved pre-osteoblast response and mechanical compatibility of ultrafine-grained Ti-13Nb-13Zr alloy. <i>Clinical Oral Implants Research</i> , 2011 , 22, 735-742	4.8	22
177	A strain energy-based approach to the low-cycle fatigue damage mechanism in a high-strength spring steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1998 , 29, 1431-1439	2.3	22
176	High-temperature deformation behavior of a gamma TiAl alloy—Microstructural evolution and mechanisms. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2003 , 34, 2165-2176	2.3	22
175	Effect of microstructural features on ductility in hypo-eutectoid steels. <i>Scripta Materialia</i> , 1999 , 41, 605-610	6.10	22
174	Enhancing high-cycle fatigue properties of cold-drawn Fe-Mn TWIP steels. <i>International Journal of Fatigue</i> , 2016 , 85, 57-64	5	21
173	Manufacturing Ultrafine-Grained Ti-6Al-4V Bulk Rod Using Multi-Pass Caliber-Rolling. <i>Metals</i> , 2015 , 5, 777-789	2.3	20
172	Enhanced low-cycle fatigue life by pre-straining in an Fe-17Mn-0.8C twinning induced plasticity steel. <i>Metals and Materials International</i> , 2014 , 20, 1043-1051	2.4	20
171	High temperature deformation behavior of Ti-6Al-4V alloy with and equiaxed microstructure: a neural networks analysis. <i>Metals and Materials International</i> , 2008 , 14, 213-221	2.4	20
170	Effect of carbon content on the Hall-Petch parameter in cold drawn pearlitic steel wires. <i>Journal of Materials Science</i> , 2002 , 37, 2243-2249	4.3	20
169	Constitutive analysis of compressive deformation behavior of ELI-grade Ti-6Al-4V with different microstructures. <i>Journal of Materials Science</i> , 2012 , 47, 3115-3124	4.3	19
168	Surface structures and osteoblast response of hydrothermally produced CaTiO ₃ thin film on Ti-13Nb-13Zr alloy. <i>Applied Surface Science</i> , 2011 , 257, 7856-7863	6.7	19
167	Low-cycle fatigue properties of CoCrFeMnNi high-entropy alloy compared with its conventional counterparts. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 792, 139661	5.3	18
166	Effects of microstructural parameters on the fatigue crack growth of fully lamellar TiAl alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 329-331, 545-556	5.3	17

165	High temperature deformation behavior of a TiAl alloy determined using the load-relaxation test. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 344, 146-157	5.3	17
164	Grain elongation in a superplastic 7075 Al alloy. <i>Scripta Materialia</i> , 1999 , 41, 269-274	5.6	17
163	Effect of Al addition on low-cycle fatigue properties of hydrogen-charged high-Mn TWIP steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 677, 421-430	5.3	17
162	Anisotropic twinning and slip behaviors and their relative activities in rolled alpha-phase titanium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 698, 54-62	5.3	16
161	Effect of the amount and temperature of prestrain on tensile and low-cycle fatigue properties of Fe-17Mn-0.5C TRIP/TWIP steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 696, 493-502	5.3	16
160	Internal-variable analysis of high-temperature deformation behavior of Ti ₆ Al ₄ V: A comparative study of the strain-rate-jump and load-relaxation tests. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 562, 180-189	5.3	16
159	Analysis of stress states in compression stage of high pressure torsion using slab analysis method and finite element method. <i>Metals and Materials International</i> , 2013 , 19, 1021-1027	2.4	16
158	Static and Dynamic Deformation of Fully Austenitic High Mn Steels. <i>Procedia Engineering</i> , 2011 , 10, 1002-1006		16
157	Mechanical properties of Fe ₇₀ Ni ₁₀ Cr ₁₀ Si ₅ B bulk glassy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 181-184	5.3	16
156	Acoustic Emission Behavior during Tensile Tests of Low Carbon Steel Welds.. <i>ISIJ International</i> , 1999 , 39, 365-370	1.7	16
155	Abnormal texture evolution of rolled Mg ₉₀ Al ₁₀ Zn alloy containing initial {10-12} twins. <i>Scripta Materialia</i> , 2015 , 99, 21-24	5.6	15
154	Effect of Ce addition on secondary phase transformation and mechanical properties of 27Cr ₂ Ni hyper duplex stainless steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 573, 27-36	5.3	15
153	Mechanisms of tensile improvement in caliber-rolled high-carbon steel. <i>Metals and Materials International</i> , 2012 , 18, 391-396	2.4	15
152	Dynamic deformation behavior and microstructural evolution during high-speed rolling of Mg alloy having non-basal texture. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 473-482	9.1	15
151	Relationship between mechanical properties and high-cycle fatigue strength of medium-carbon steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 690, 185-194	5.3	14
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