

Heung Nam Han

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.

330
papers

5,852
citations

39
h-index

59
g-index

345
ext. papers

6,994
ext. citations

4.2
avg. IF

5.92
L-index

#	Paper	IF	Citations
330	High temperature tensile and creep properties of CrMnFeCoNi and CrFeCoNi high-entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 838, 142748	5.3	0
329	Effect of the microstructure of Haynes 282 nickel-based superalloys on oxidation behavior under oxy-fuel combustion conditions. <i>Corrosion Science</i> , 2022 , 198, 110110	6.8	
328	Microstructural evolution and fatigue performance of dissimilar solid-state joints of SUS316L and SUS410. <i>Journal of Materials Research and Technology</i> , 2022 , 16, 555-569	5.5	0
327	Small-scale analysis of brittle-to-ductile transition behavior in pure tungsten. <i>Journal of Materials Science and Technology</i> , 2022 , 105, 242-258	9.1	2
326	Athermally Enhanced Recrystallization Kinetics of Ultra-Low Carbon Steel via Electric Current Treatment. <i>Acta Materialia</i> , 2022 , 117925	8.4	0
325	Tailoring hetero-grained austenite via a cyclic thermomechanical process for achieving ultrahigh strength-ductility in medium-Mn steel. <i>Scripta Materialia</i> , 2022 , 217, 114767	5.6	0
324	Microstructure evolution, mechanical properties and deformation characteristics of ultrafine-grained annealed pure aluminum. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 846, 143320	5.3	0
323	Competitive roles of dislocations on blister formation in polycrystalline pure tungsten. <i>Journal of Alloys and Compounds</i> , 2022 , 918, 165745	5.7	0
322	Simple optimization for strength and conductivity of Cu-Ni-Si alloy with discontinuous precipitation. <i>Materials Characterization</i> , 2021 , 184, 111605	3.9	0
321	A dual-scale FE simulation of hole expansion test considering pre-damage from punching process. <i>International Journal of Solids and Structures</i> , 2021 , 236-237, 111312	3.1	0
320	Suppressing High-Current-Induced Phase Separation in Ni-Rich Layered Oxides by Electrochemically Manipulating Dynamic Lithium Distribution. <i>Advanced Materials</i> , 2021 , 33, e2105337	24	6
319	Effect of solid-solution strengthening on deformation mechanisms and strain hardening in medium-entropy V _{1-x} Cr _x CoNi alloys. <i>Journal of Materials Science and Technology</i> , 2021 , 108, 270-270	9.1	0
318	Hydrogen uptake and its influence in selective laser melted austenitic stainless steel: A nanoindentation study. <i>Scripta Materialia</i> , 2021 , 194, 113718	5.6	7
317	Investigation of the unloading yield effect in 7075 Al alloys based on microstructural and digital image correlation analysis. <i>Materials Characterization</i> , 2021 , 173, 110963	3.9	1
316	Porous Fe ₃ O ₄ submicron particles for use in magnetorheological fluids. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 613, 126066	5.1	2
315	Tantalum and molybdenum barriers to prevent carbon diffusion in spark plasma sintered tungsten. <i>Scripta Materialia</i> , 2021 , 196, 113759	5.6	4
314	Microstructures and mechanical properties of CrFeNi ₂ Nbx eutectic multicomponent alloys. <i>Journal of Alloys and Compounds</i> , 2021 , 860, 158502	5.7	4

313	Effect of Particle Shape Anisotropy on the Performance and Stability of Magnetorheological Fluids. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 2526-2533	4	5
312	Electrically assisted solid state lap joining of dissimilar steel S45C and aluminum 6061-T6 alloy. <i>Journal of Materials Research and Technology</i> , 2021 , 12, 271-282	5.5	5
311	Faceting-roughening transition of a Cu grain boundary under electron-beam irradiation at 300 keV. <i>Scientific Reports</i> , 2021 , 11, 15563	4.9	2
310	Effect of rare earth oxide addition on microstructure and mechanical properties of Ni-based alloy. <i>Journal of Alloys and Compounds</i> , 2021 , 853, 156980	5.7	10
309	Predictive dual-scale finite element simulation for hole expansion failure of ferrite-bainite steel. <i>International Journal of Plasticity</i> , 2021 , 136, 102900	7.6	7
308	Grain-boundary plane orientation dependence of faceting-roughening transition in Au grain boundaries under electron-beam irradiation. <i>Scripta Materialia</i> , 2021 , 194, 113630	5.6	2
307	Electropulsing Treatment on Enhancement of Electrical Conductivity of Screen-Printed Ag Wire. <i>Metals and Materials International</i> , 2021 , 27, 1296-1304	2.4	1
306	Effects of molybdenum addition on microstructure and mechanical properties of Fe-B-C sintered alloys. <i>Materials Characterization</i> , 2021 , 173, 110915	3.9	1
305	Prediction of precipitation kinetics and strengthening in FeMnAlC lightweight steels. <i>Journal of Materials Research and Technology</i> , 2021 , 14, 2897-2908	5.5	1
304	Analysis of hardness and microstructural changes in Tungsten mono-blocks exposed to high heat flux at 10 MW/m ² . <i>Fusion Engineering and Design</i> , 2021 , 170, 112530	1.7	
303	Role of TiCN addition on the characteristics of reactive spark plasma sintered ZrB ₂ -based novel composites. <i>Journal of Alloys and Compounds</i> , 2021 , 875, 159901	5.7	2
302	An investigation of the microstructural effects on the mechanical and electrochemical properties of a friction stir processed equiatomic CrMnFeCoNi high entropy alloy. <i>Journal of Materials Science and Technology</i> , 2021 , 87, 60-73	9.1	4
301	Surface roughening and filling of nanoholes in Au surfaces under electron-beam irradiation. <i>Acta Materialia</i> , 2021 , 220, 117280	8.4	2
300	Elucidating the origin of electroplasticity in metallic materials. <i>Applied Materials Today</i> , 2020 , 21, 100874	6.6	14
299	Electrically Assisted Solid-State Joining of CrMnFeCoNi High-Entropy Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020 , 51, 6142-6148	2.3	3
298	Effect of Bipolar Charging of SiH ₄ on the Growth Rate and Crystallinity of Silicon Films Grown in the Atmospheric Pressure Chemical Vapor Deposition Process. <i>Electronic Materials Letters</i> , 2020 , 16, 385-395	2.9	6
297	Evolution of cube-on-face texture in Fe-1%Si steel induced by physical contact during the phase transformation from α to β . <i>Materials Characterization</i> , 2020 , 165, 110380	3.9	3
296	Yttrium Oxyfluoride Coatings Deposited by Suspension Plasma Spraying Using Coaxial Feeding. <i>Coatings</i> , 2020 , 10, 481	2.9	5

295	Integrated porous cobalt oxide/cobalt anode with micro- and nano-pores for lithium ion battery. <i>Applied Surface Science</i> , 2020 , 525, 146592	6.7	10
294	Effect of grain size on the strain rate sensitivity of CoCrFeNi high-entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 782, 139281	5.3	10
293	Manufacturing of magnesium/aluminum bimetallic ring components by friction stir assisted simultaneous forging and solid-state joining. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2020 , 8, 1429	3.8	2
292	Continuous and rapid production of three-dimensional woven fabric preforms using a new weaving technique. <i>Functional Composites and Structures</i> , 2020 , 2, 015005	3.5	1
291	Modelling continuous dynamic recrystallization of aluminum alloys based on the polycrystal plasticity approach. <i>International Journal of Plasticity</i> , 2020 , 131, 102710	7.6	15
290	Evidence of Stress Development as a Source of Driving Force for Grain-Boundary Migration in a Ni Bicrystalline TEM Specimen. <i>Materials</i> , 2020 , 13,	3.5	1
289	Microstructural characterization of cold-drawn CuNiSi alloy having high strength and high conductivity. <i>Journal of Alloys and Compounds</i> , 2020 , 832, 155059	5.7	20
288	A Study on Uniaxial Tensile Deformation Behavior of Superelastic Titanium Alloy. <i>Journal of Korean Institute of Metals and Materials</i> , 2020 , 58, 162-168	1	3
287	A Finite Element Simulation for Induction Heat Treatment of Automotive Drive Shaft. <i>ISIJ International</i> , 2020 , 60, 1333-1341	1.7	1
286	The effect of bimodal structure with nanofibers and normal precipitates on the mechanical and electrical properties of Cu Ni Si alloy. <i>Materials Characterization</i> , 2020 , 170, 110642	3.9	3
285	Experimental and numerical studies on the electrochemical properties of an electrically assisted pressure joint of austenitic stainless steel and Ni-based superalloy. <i>Materials Characterization</i> , 2020 , 165, 110404	3.9	6
284	A fully coupled diffusional-mechanical finite element modeling for tin oxide-coated copper anode system in lithium-ion batteries. <i>Computational Materials Science</i> , 2020 , 172, 109343	3.2	5
283	Migration Pinning and Roughening Transition of a Ni Grain Boundary. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020 , 51, 1067-1074	2.3	1
282	Integrated crystal plasticity and phase field model for prediction of recrystallization texture and anisotropic mechanical properties of cold-rolled ultra-low carbon steels. <i>International Journal of Plasticity</i> , 2020 , 127, 102644	7.6	17
281	Microstructure reset-based self-healing method using sub-second electric pulsing for metallic materials. <i>Applied Materials Today</i> , 2020 , 20, 100755	6.6	10
280	Prediction of uniaxial tensile flow using finite element-based indentation and optimized artificial neural networks. <i>Materials and Design</i> , 2020 , 196, 109104	8.1	12
279	Degradation of High-Nickel-Layered Oxide Cathodes from Surface to Bulk: A Comprehensive Structural, Chemical, and Electrical Analysis. <i>Advanced Energy Materials</i> , 2020 , 10, 2001035	21.8	30
278	A new class of lightweight, stainless steels with ultra-high strength and large ductility. <i>Scientific Reports</i> , 2020 , 10, 12140	4.9	18

277	Misorientation Characteristics at the Growth Front of Abnormally-Growing Goss Grains in Fe β %Si Steel. <i>Metals and Materials International</i> , 2020 , 1	2.4	0
276	The Effect of Pre-strain and Subsequent Electrically Assisted Annealing on the Mechanical Behaviors of Two Different Aluminum Alloys. <i>International Journal of Precision Engineering and Manufacturing</i> , 2020 , 21, 2345-2358	1.7	3
275	Characterization of microstructural evolution in austenitic Fe-Mn-Al-C lightweight steels with Cr content. <i>Materials Characterization</i> , 2020 , 170, 110717	3.9	8
274	Mechanism for H-shaped precipitate formation in 1.25Cr-0.5Mo steel. <i>Materials Characterization</i> , 2020 , 163, 110314	3.9	4
273	Determination of the in-plane shear modulus of unidirectional carbon fiber-reinforced plastics using digital image correlation and finite-element analysis. <i>Composite Structures</i> , 2019 , 229, 111392	5.3	9
272	Selective crack suppression during deformation in metal films on polymer substrates using electron beam irradiation. <i>Nature Communications</i> , 2019 , 10, 4454	17.4	10
271	Correlation between macroscale tensile properties and small-scale intrinsic mechanical behavior of Mo-added FeMnAlC lightweight steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 768, 138460	5.3	9
270	Extremely toughened Ti-based solid-solution carbide cermets. <i>Journal of Alloys and Compounds</i> , 2019 , 784, 906-914	5.7	15
269	Structure- and porosity-tunable, thermally reactive metal organic frameworks for high-performance Ni-rich layered oxide cathode materials with multi-scale pores. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15190-15197	13	6
268	Solid-state dissimilar joining of stainless steel 316L and Inconel 718 alloys by electrically assisted pressure joining. <i>Materials Characterization</i> , 2019 , 154, 161-168	3.9	12
267	Thermal and microstructural properties of spark plasma sintered tungsten for the application to plasma facing materials. <i>Fusion Engineering and Design</i> , 2019 , 146, 2649-2653	1.7	6
266	Local enhancement of the material properties of aluminium sheets by a combination of additive manufacturing and friction stir processing. <i>CIRP Annals - Manufacturing Technology</i> , 2019 , 68, 289-292	4.9	14
265	Effects of coherency strain on structure and migration of a coherent grain boundary in Cu. <i>Materials Characterization</i> , 2019 , 151, 436-444	3.9	1
264	Practical microstructure-informed dual-scale simulation for predicting hole expansion failure of hyper-burring steel. <i>International Journal of Mechanical Sciences</i> , 2019 , 156, 297-311	5.5	8
263	Ductility enhancement of tungsten after plastic deformation. <i>Journal of Alloys and Compounds</i> , 2019 , 787, 801-814	5.7	21
262	Effect of Pulsed Electric Current on TRIP-Aided Steel. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2019 , 6, 315-327	3.8	12
261	Microstructural Evolution of Oxide and Nitride Dispersed Nickel-Based Alloy Powders. <i>Metals and Materials International</i> , 2019 , 25, 140-146	2.4	4
260	Bridging Length Scales in the Analysis of Transient Tests for Metallic Materials. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2019 , 141,	1.8	2

259	Auxetic elastomers: Mechanically programmable meta-elastomers with an unusual Poisson's ratio overcome the gauge limit of a capacitive type strain sensor. <i>Extreme Mechanics Letters</i> , 2019 , 31, 100516 ^{3.9}	26
258	Phase transformation mechanism and hardness during ageing of an austenitic Fe-30Mn-10.5Al-1.1C-3Mo lightweight steel. <i>Journal of Alloys and Compounds</i> , 2019 , 804, 511-520	5.7 9
257	Analyzing the microstructure and related properties of 2D materials by transmission electron microscopy. <i>Applied Microscopy</i> , 2019 , 49, 10	1.1 4
256	Microstructural visualization of compositional changes induced by transition metal dissolution in Ni-rich layered cathode materials by high-resolution particle analysis. <i>Nano Energy</i> , 2019 , 56, 434-442	17.1 77
255	Effect of Mo and Cr additions on the microstructure, mechanical properties and pitting corrosion resistance of austenitic Fe-30Mn-10.5Al-1.1C lightweight steels. <i>Journal of Alloys and Compounds</i> , 2019 , 775, 1136-1146	5.7 38
254	Mechanochemical synthesis of Ce ₃ Al ₁₁ powder and its catalytic effect on the hydrogen sorption properties of NaAlH ₄ . <i>Journal of Alloys and Compounds</i> , 2019 , 784, 313-318	5.7 8
253	Effect of Residual Lithium Rearrangement on Ni-rich Layered Oxide Cathodes for Lithium-Ion Batteries. <i>Energy Technology</i> , 2018 , 6, 1361-1369	3.5 35
252	Joining and fabrication of metal matrix composites by friction stir welding/processing. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2018 , 5, 151-172	3.8 25
251	Influence of pre-strain on the gaseous hydrogen embrittlement resistance of a high-entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 718, 43-47	5.3 25
250	Investigations of the microstructure evolution and tensile deformation behavior of austenitic Fe-Mn-Al-C lightweight steels and the effect of Mo addition. <i>Acta Materialia</i> , 2018 , 147, 226-235	8.4 40
249	Microstructure and mechanical properties of friction stir welded and laser welded high entropy alloy CrMnFeCoNi. <i>Metals and Materials International</i> , 2018 , 24, 73-83	2.4 63
248	Modified Johnson-Cook model incorporated with electroplasticity for uniaxial tension under a pulsed electric current. <i>Metals and Materials International</i> , 2018 , 24, 42-50	2.4 15
247	Flaw-Containing Alumina Hollow Nanostructures Have Ultrahigh Fracture Strength To Be Incorporated into High-Efficiency GaN Light-Emitting Diodes. <i>Nano Letters</i> , 2018 , 18, 1323-1330	11.5 6
246	Simulation of Carbide Precipitation Kinetics in Aged Low-Density Fe-Mn-Al-C Steels and Its Effects on Strengthening. <i>Metals and Materials International</i> , 2018 , 24, 702-710	2.4 16
245	Microstructural investigation of oxide dispersion strengthened alloy 617 after creep rupture at high temperature. <i>Materials Characterization</i> , 2018 , 139, 11-18	3.9 9
244	Grain Boundary Conformed Volumetric Mesh Generation from a Three-Dimensional Voxellated Polycrystalline Microstructure. <i>Metals and Materials International</i> , 2018 , 24, 845-859	2.4 0
243	Increased mobility of an Al ₂ O ₃ grain boundary by electron-beam irradiation. <i>Journal of Materials Science</i> , 2018 , 53, 2383-2388	4.3 2
242	Hydrogen-induced change in microstructure and properties of steels: 18Cr10Mn-0.4N vis-à-vis 18Cr10Ni. <i>Materials Science and Technology</i> , 2018 , 34, 584-586	1.5 1

241	Elastocaloric effect in polycrystalline Ni 50 Ti 45.3 V 4.7 shape memory alloy. <i>Scripta Materialia</i> , 2018 , 144, 48-51	5.6	36
240	Indentation size effect for spherical nanoindentation on nanoporous gold. <i>Scripta Materialia</i> , 2018 , 143, 10-14	5.6	17
239	Solid-phase epitaxy of a cavity-shaped amorphous alumina nanomembrane structure on a sapphire substrate. <i>Journal of Crystal Growth</i> , 2018 , 498, 130-136	1.6	8
238	Comparison of three-dimensional morphologies of abnormally growing grains between Monte Carlo simulations and experiments of Fe-3% Si steel. <i>Materials Characterization</i> , 2018 , 144, 239-246	3.9	5
237	In situ observation of nanoparticle formation in nickel-based mechanical alloyed powders. <i>Journal of Materials Science</i> , 2018 , 53, 16110-16121	4.3	3
236	Microstructure and Solidification Crack Susceptibility of Al 6014 Molten Alloy Subjected to a Spatially Oscillated Laser Beam. <i>Materials</i> , 2018 , 11,	3.5	20
235	TensileShear Fracture Behavior Prediction of High-Strength Steel Laser Overlap Welds. <i>Metals</i> , 2018 , 8, 365	2.3	14
234	Intermetallic Evolution of AlBi-Coated Hot Stamping Steel During Modified Electrically Assisted Rapid Heating. <i>Acta Metallurgica Sinica (English Letters)</i> , 2018 , 31, 1327-1333	2.5	5
233	Mechanochemical coating with nano-VOPO4: Over lithiated layered oxide with high coulombic efficiency and good thermal stability. <i>Electrochimica Acta</i> , 2018 , 282, 582-587	6.7	4
232	Effectiveness of electrically assisted solid-state pressure joining using an additive manufactured porous interlayer. <i>CIRP Annals - Manufacturing Technology</i> , 2018 , 67, 297-300	4.9	5
231	Roughening and strain-field evolution at a grain boundary in Al ₂ O ₃ . <i>Physical Review Materials</i> , 2018 , 2,	3.2	4
230	Ab initio study of growth mechanism of omega precipitates in Al-Cu-Mg-Ag alloy and similar systems. <i>Journal of Alloys and Compounds</i> , 2018 , 737, 207-212	5.7	7
229	Feasibility of a Two-Stage Forming Process of 316L Austenitic Stainless Steels with Rapid Electrically Assisted Annealing. <i>Metals</i> , 2018 , 8, 815	2.3	1
228	Prediction of fracture behavior in hole expansion test using microstructure based dual-scale model. <i>Journal of Physics: Conference Series</i> , 2018 , 1063, 012018	0.3	
227	Electrically assisted pressure joining of titanium alloys. <i>Journal of Manufacturing Processes</i> , 2018 , 35, 681-686	5	8
226	Diffusion Enhancement during Electrically Assisted Brazing of Ferritic Stainless Steel Alloys. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2018 , 5, 613-621	3.8	6
225	Microstructural evolution and electrical resistivity of nanocrystalline W thin films grown by sputtering. <i>Materials Characterization</i> , 2018 , 145, 473-478	3.9	10
224	Effect of Asymmetric Hot Rolling on the Texture Evolution of FeB%Si Steel. <i>Metals and Materials International</i> , 2018 , 24, 1369-1375	2.4	1

223	Effect of austenitic texture on tensile behavior of lean duplex stainless steel with transformation induced plasticity (TRIP). <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 681, 114-120	5.3	22
222	Effect of pulsed electric current on dissolution of Mg 17 Al 12 phases in as-extruded AZ91 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 684, 668-676	5.3	36
221	Stabilization of a Ga-adlayer structure with the zincblende stacking sequence in the GaN(0 0 0 -1) surface at the nanoscale. <i>Nanoscale</i> , 2017 , 9, 2596-2602	7.7	3
220	Deformation and annealing textures of surface layers of copper sheets cold-rolled under unlubricated condition. <i>Metals and Materials International</i> , 2017 , 23, 132-140	2.4	5
219	Prediction of the tensile strength of unidirectional carbon fiber composites considering the interfacial shear strength. <i>Composite Structures</i> , 2017 , 168, 92-103	5.3	28
218	Self-similarity in the structure of coarsened nanoporous gold. <i>Scripta Materialia</i> , 2017 , 137, 46-49	5.6	21
217	Electroplastic behaviour in an aluminium alloy and dislocation density based modelling. <i>Materials and Design</i> , 2017 , 124, 131-142	8.1	43
216	Hydrogen-induced nanohardness variations in a CoCrFeMnNi high-entropy alloy. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 12015-12021	6.7	20
215	Effect of electric current on recrystallization kinetics in interstitial free steel and AZ31 magnesium alloy. <i>Materials Characterization</i> , 2017 , 133, 70-76	3.9	53
214	Metal phosphate-coated Ni-rich layered oxide positive electrode materials for Li-ion batteries: improved electrochemical performance and decreased Li residuals content. <i>Electrochimica Acta</i> , 2017 , 257, 217-223	6.7	38
213	Process responses and resultant joint properties of friction stir welding of dissimilar 5083 and 6061aluminum alloys. <i>Journal of Mechanical Science and Technology</i> , 2017 , 31, 3955-3960	1.6	9
212	Electrically assisted stress relief annealing of automotive springs. <i>Journal of Mechanical Science and Technology</i> , 2017 , 31, 3943-3948	1.6	4
211	Indentation size effect in nanoporous gold. <i>Acta Materialia</i> , 2017 , 138, 52-60	8.4	29
210	Fabrication of sintered tungsten by spark plasma sintering and investigation of thermal stability. <i>International Journal of Refractory Metals and Hard Materials</i> , 2017 , 69, 164-169	4.1	20
209	Microstructure Evolution and Age-Hardening Behavior of Microalloyed Austenitic Fe-30Mn-9Al-0.9C Light-Weight Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017 , 48, 4500-4510	2.3	26
208	Characterization of friction stir welded joint of low nickel austenitic stainless steel and modified ferritic stainless steel. <i>Metals and Materials International</i> , 2017 , 23, 948-957	2.4	11
207	Significant strengthening of nanocrystalline Ni sub-micron pillar by cyclic loading in elastic regime. <i>Scripta Materialia</i> , 2017 , 140, 31-34	5.6	4
206	Critical bending radius of thin single-crystalline silicon with dome and pyramid surface texturing. <i>Scripta Materialia</i> , 2017 , 140, 1-4	5.6	10

205	Dendrite-Free Lithium Deposition for Lithium Metal Anodes with Interconnected Microsphere Protection. <i>Chemistry of Materials</i> , 2017 , 29, 5906-5914	9.6	42
204	Investigation of the aging behavior and orientation relationships in Fe _{0.14} Mn _{0.14} Al _{0.89} C low-density steel. <i>Journal of Alloys and Compounds</i> , 2017 , 723, 146-156	5.7	13
203	Wall-thickness-dependent strength of nanotubular ZnO. <i>Scientific Reports</i> , 2017 , 7, 4327	4.9	5
202	Practical failure analysis of resistance spot welded advanced high-strength steel sheets. <i>International Journal of Plasticity</i> , 2017 , 94, 122-147	7.6	24
201	Electric current-assisted deformation behavior of Al-Mg-Si alloy under uniaxial tension. <i>International Journal of Plasticity</i> , 2017 , 94, 148-170	7.6	63
200	Atomistic investigations of ϵ -carbide precipitation in austenitic Fe-Mn-Al-C lightweight steels and the effect of Mo addition. <i>Scripta Materialia</i> , 2017 , 127, 97-101	5.6	51
199	Effects of Phase Evolution on Mechanical Properties of Laser-Welded Ferritic Fe-Al-Mn-C Steel. <i>Metals</i> , 2017 , 7, 523	2.3	5
198	Growth Behavior of Intermetallic Compound in Dissimilar Al-Cu Joints Under Direct Current. <i>Journal of Korean Institute of Metals and Materials</i> , 2017 , 55, 372-378	1	2
197	Effect of aging treatment on microstructure and intrinsic mechanical behavior of Fe _{0.14} Mn _{0.14} Al _{0.89} C lightweight steel. <i>Journal of Alloys and Compounds</i> , 2016 , 656, 805-811	5.7	27
196	Effect of oxygen and nitrogen on microstructure and mechanical properties of vanadium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 675, 92-98	5.3	11
195	δ Mn formation and aging effect on the fracture behavior of high-Mn low-density steels. <i>Scripta Materialia</i> , 2016 , 124, 193-197	5.6	31
194	Improvement of mechanical property of air plasma sprayed tungsten film using pulsed electric current treatment. <i>International Journal of Refractory Metals and Hard Materials</i> , 2016 , 60, 99-103	4.1	11
193	Migration mechanism of a GaN bicrystalline grain boundary as a model system. <i>Scientific Reports</i> , 2016 , 6, 26493	4.9	4
192	A finite element simulation for carburizing heat treatment of automotive gear ring incorporating transformation plasticity. <i>Materials and Design</i> , 2016 , 99, 243-253	8.1	21
191	In Vitro and In Vivo Evaluation of Whitlockite Biocompatibility: Comparative Study with Hydroxyapatite and β -Tricalcium Phosphate. <i>Advanced Healthcare Materials</i> , 2016 , 5, 128-36	10.1	78
190	Electrically assisted bake hardening of complex phase ultra-high strength steels. <i>International Journal of Precision Engineering and Manufacturing</i> , 2016 , 17, 225-231	1.7	3
189	Numerical and experimental investigation of (de)lithiation-induced strains in bicontinuous silicon-coated nickel inverse opal anodes. <i>Acta Materialia</i> , 2016 , 107, 289-297	8.4	18
188	Transmission Electron Microscopy Observation of Twin Variant Selection in Austenitic Twinning-Induced Plasticity Steel. <i>Applied Microscopy</i> , 2016 , 46, 238-243	1.1	

187	The Effect of Short Duration Electric Current on the Quasi-Static Tensile Behavior of Magnesium AZ31 Alloy. <i>Advances in Materials Science and Engineering</i> , 2016 , 2016, 1-10	1.5	5
186	Evolution of microstructure and tensile properties of Fe-8Ni-2Cr based AFA steel during aging at 700 °C. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 672, 23-31	5.3	17
185	Electrically assisted tensile behavior of complex phase ultra-high strength steel. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2016 , 3, 325-333	3.8	11
184	Evaluation of single crystal elastic constants and stacking fault energy in high-nitrogen duplex stainless steel by in-situ neutron diffraction. <i>Scripta Materialia</i> , 2016 , 119, 1-4	5.6	16
183	Effects of the strain rate on the tensile properties of a TRIP-aided duplex stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 666, 280-287	5.3	35
182	Experimental and Numerical Study on the Deformation Mechanism in AZ31B Mg Alloy Sheets Under Pulsed Electric-Assisted Tensile and Compressive Tests. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 2783-2794	2.3	13
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19	Model for uniaxial compaction of ceramic powders. <i>Powder Metallurgy</i> , 1999 , 42, 269-274	1.9	6
18	Model for compaction of metal powders. <i>International Journal of Mechanical Sciences</i> , 1999 , 41, 121-141	5.5	31
17	Analysis of heat transfer during cooling of plain carbon steels. <i>Scripta Materialia</i> , 1999 , 40, 683-689	5.6	3
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15	A finite element model for consolidation of vacuum plasma spray-formed metal matrix composites. <i>Acta Materialia</i> , 1998 , 46, 4339-4350	8.4	9
14	Analysis of Deformation of Porous Metals. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 521, 33		
13	3-dimensional Mathematical Model for the Analysis of Continuous Beam Blank Casting Using Body Fitted Coordinate System.. <i>ISIJ International</i> , 1998 , 38, 132-141	1.7	15
12	Model for consolidation of Ti-6Al-4V/SiC fibre composite from plasma sprayed monotape. <i>Materials Science and Technology</i> , 1998 , 14, 933-938	1.5	1
11	Plastic behaviour of perforated sheets under biaxial stress state. <i>International Journal of Mechanical Sciences</i> , 1997 , 39, 781-793	5.5	20
10	Analysis of hot forging of porous metals. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1996 , 206, 81-89	5.3	35
9	Analysis of forging limit for sintered porous metals. <i>Scripta Metallurgica Et Materialia</i> , 1995 , 32, 1937-1944		16
8	Elastoplastic Finite Element Analysis for Porous Metals. <i>Powder Metallurgy</i> , 1994 , 37, 140-146	1.9	32

7	Analysis of Coefficient of Friction in Compression of Porous Metal Rings. <i>Powder Metallurgy</i> , 1994 , 37, 259-264	1.9	12
6	Densification of sintered porous metal under hydrostatic pressure. <i>Scripta Metallurgica Et Materialia</i> , 1993 , 29, 1211-1216		10
5	Statistically Reliable EBSD Analysis Method of Grain Boundary Characterization. <i>Ceramic Transactions</i> , 171-179	0.1	
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