

Shi-Hoon Choi

List of Publications by Year in descending order

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61
papers

1,531
citations

361413

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330143

37
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61
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61
docs citations

61
times ranked

1280
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of stored energy in cold-rolled steels from EBSD data. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 371, 149-159.	5.6	121
2	Evaluation of the stress-strain relationship of constituent phases in AlSi10Mg alloy produced by selective laser melting using crystal plasticity FEM. <i>Journal of Alloys and Compounds</i> , 2017, 714, 687-697.	5.5	94
3	Mechanical responses and deformation mechanisms of an AZ31 Mg alloy sheet under dynamic and simple shear deformations. <i>International Journal of Plasticity</i> , 2015, 68, 111-131.	8.8	91
4	Stress partitioning behavior of an AlSi10Mg alloy produced by selective laser melting during tensile deformation using in situ neutron diffraction. <i>Journal of Alloys and Compounds</i> , 2016, 686, 281-286.	5.5	79
5	An investigation of the corrosion behavior of 316L stainless steel fabricated by SLM and SPS techniques. <i>Materials Characterization</i> , 2020, 163, 110204.	4.4	69
6	Microstructure and mechanical characteristics of multi-layered materials composed of 316L stainless steel and ferritic steel produced by direct energy deposition. <i>Journal of Alloys and Compounds</i> , 2019, 774, 896-907.	5.5	67
7	Experimental and numerical investigations of yield surface, texture, and deformation mechanisms in AA5754 over low to high temperatures and strain rates. <i>International Journal of Plasticity</i> , 2013, 41, 165-188.	8.8	62
8	The effect of initial texture on micromechanical deformation behaviors in Mg alloys under a mini-V-bending test. <i>International Journal of Plasticity</i> , 2019, 117, 33-57.	8.8	52
9	Primary recrystallization modelling for interstitial free steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 405, 86-101.	5.6	49
10	Deformation mechanisms and texture evolution in high entropy alloy during cold rolling. <i>International Journal of Plasticity</i> , 2021, 141, 102989.	8.8	45
11	Effect of kinematic stability of the austenite phase on phase transformation behavior and deformation heterogeneity in duplex stainless steel using the crystal plasticity finite element method. <i>International Journal of Plasticity</i> , 2016, 79, 48-67.	8.8	41
12	Ultra-Rapid Crystal Growth of Textured SiC Using Flash Spark Plasma Sintering Route. <i>Crystal Growth and Design</i> , 2016, 16, 2317-2321.	3.0	40
13	Texture tailoring and bendability improvement of rolled AZ31 alloy using {10 $\bar{1}2$ } twinning: The effect of precompression levels. <i>Journal of Magnesium and Alloys</i> , 2019, 7, 648-660.	11.9	38
14	Shear and multiaxial responses of oxygen free high conductivity (OFHC) copper over wide range of strain-rates and temperatures and constitutive modeling. <i>International Journal of Plasticity</i> , 2013, 40, 65-80.	8.8	35
15	The effect of strain heterogeneity on the deformation and failure behaviors of E-form Mg alloy sheets during a mini-V-bending test. <i>Journal of Alloys and Compounds</i> , 2017, 708, 694-705.	5.5	35
16	Effect of post-weld heat treatment on the microstructure and hardness of P92 steel in IN740H/P92 dissimilar weld joints. <i>Materials Characterization</i> , 2020, 160, 110083.	4.4	35
17	Effect of hot-rolling processing on texture and r-value of annealed dual-phase steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 1686-1694.	5.6	33
18	Effect of initial microstructure on the deformation heterogeneities of 316L stainless steels fabricated by selective laser melting processing. <i>Journal of Materials Research and Technology</i> , 2020, 9, 8867-8883.	5.8	32

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19	Evolution of deformation texture in Al/Al-Mg/Al composite sheets during cold-roll cladding. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 530, 244-252.	5.6	25
20	Texture evolution of FCC sheet metals during deep drawing process. <i>International Journal of Mechanical Sciences</i> , 2000, 42, 1571-1592.	6.7	24
21	Aging Effect on Texture Evolution during Warm Rolling of ZK60 Alloys Fabricated by Twin-Roll Casting. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010, 41, 2575-2583.	2.2	22
22	Microstructure evolution and deformation behaviors of E-form and AZ31 Mg alloys during ex-situ mini-V-bending tests. <i>Journal of Alloys and Compounds</i> , 2019, 778, 124-133.	5.5	22
23	Effect of reduction ratio on annealing texture and r-value directionality for a cold-rolled Al-5% Mg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 519, 77-87.	5.6	21
24	Twinning-detwinning behavior of E-form Mg alloy sheets during in-plane reverse loading. <i>International Journal of Plasticity</i> , 2020, 127, 102637.	8.8	21
25	Quantitative analysis of fine nano-sized precipitates in low-carbon steels by small angle neutron scattering. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 99, 613-620.	2.3	20
26	Effect of microstructure on the hardness heterogeneity of dissimilar metal joints between 316L stainless steel and SS400 steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 700, 338-350.	5.6	20
27	The deformation and fracture behavior of 316L SS fabricated by SLM under mini V-bending test. <i>International Journal of Mechanical Sciences</i> , 2021, 196, 106292.	6.7	20
28	Heterogeneity in deformation and twinning behaviors through the thickness direction in E-form Mg alloy sheets during an Erichsen test. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 729, 370-384.	5.6	19
29	Microcrack propagation in Cu metal films on a flexible PI substrate during cyclic-bend testing. <i>Materials Characterization</i> , 2017, 129, 186-194.	4.4	17
30	The deformation and fracture behaviors of 316L stainless steels fabricated by spark plasma sintering technique under uniaxial tension. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 707, 362-372.	5.6	17
31	Effect of hot isostatic pressing on the cryogenic mechanical properties of CrCoNi medium entropy alloy processed by direct energy deposition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 828, 142110.	5.6	17
32	Texture evolution of monolithic-phase and dual-phase steel sheets during a deep-drawing process. <i>Metals and Materials International</i> , 2011, 17, 403-412.	3.4	16
33	Rate sensitive analysis of texture evolution in FCC metals. <i>Metals and Materials International</i> , 1997, 3, 252-259.	0.2	15
34	Multi-scale analyses of constituent phases in a trip-assisted duplex stainless steel by electron backscatter diffraction, in situ neutron diffraction, and energy selective neutron imaging. <i>Scripta Materialia</i> , 2019, 158, 105-109.	5.2	15
35	A Crystal Plasticity Formulation for Simulating the Formability of a Transformation Induced Plasticity Steel. <i>Journal of Materials Processing Technology</i> , 2021, 287, 116493.	6.3	15
36	Prediction of spring-back behavior in high strength low carbon steel sheets. <i>Journal of Materials Processing Technology</i> , 2006, 171, 385-392.	6.3	14

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37	Effect of intermediate heat treatment during hot rolling on the texture and formability of annealed AZ31 Mg alloy sheets. <i>Journal of Alloys and Compounds</i> , 2022, 897, 163238.	5.5	14
38	A Study of the Batch Annealing of Cold-Rolled HSLA Steels Containing Niobium or Titanium. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 3635-3645.	2.2	13
39	Evolution of microstructure and texture in the stir zone of commercially pure titanium during friction stir processing. <i>International Journal of Plasticity</i> , 2022, 150, 103184.	8.8	12
40	Effect of Manufacturing Processes and Welding Type on Quasi-static and Dynamic Responses of Aluminum Alloys: Experiments and Modeling. <i>Journal of Dynamic Behavior of Materials</i> , 2015, 1, 299-314.	1.7	11
41	Unveiling the room-temperature softening phenomenon and texture evolution in room-temperature- and cryogenic-rolled ETP copper. <i>International Journal of Plasticity</i> , 2022, 156, 103340.	8.8	11
42	Simulation of earing behaviors in bake hardening steel exhibiting a strong off- β -fiber component. <i>International Journal of Solids and Structures</i> , 2012, 49, 3573-3581.	2.7	10
43	Mesoscale Simulation of Deformation Behaviors of E-form and AZ31Mg Alloys During Ex-Situ Mini-V-Bending Tests. <i>Metals and Materials International</i> , 2019, 25, 641-656.	3.4	10
44	Effects of microcrack evolution on the electrical resistance of Cu thin films on flexible PI substrates during cyclic-bend testing. <i>Metals and Materials International</i> , 2017, 23, 673-682.	3.4	9
45	Effect of the Deformation State on the Mechanical Degradation of Cu Metal Films on Flexible PI Substrates During Cyclic Sliding Testing. <i>Metals and Materials International</i> , 2019, 25, 45-63.	3.4	9
46	Microstructural evolution of P92 steel in IN740H/P92 dissimilar weld joints during creep deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 821, 141614.	5.6	9
47	Deciphering the role of multiple generations of annealing twins on texture evolution in cold-rolled high entropy alloys during annealing. <i>Scripta Materialia</i> , 2021, 205, 114221.	5.2	9
48	Heterogeneities in the microstructure and mechanical properties of high-Cr martensitic stainless steel produced by repetitive hot roll bonding. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 801, 140416.	5.6	8
49	Effect of Forging Type on the Deformation Heterogeneities in Multi-Axial Diagonal Forged AA1100. <i>Metals and Materials International</i> , 2019, 25, 779-793.	3.4	7
50	Small-angle neutron scattering study on the cold rolled steel sheets. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 99, 621-625.	2.3	6
51	Initiation and propagation of microcracks in Cu thin films on flexible substrates through the thickness direction during a cyclic bending test. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 708, 60-67.	5.6	5
52	A Study on the Effect of Multi-Axial Forging Type on the Deformation Heterogeneity of AA1100 Using Finite Element Analysis. <i>Journal of Korean Institute of Metals and Materials</i> , 2021, 59, 624-639.	1.0	5
53	Comparison Between Multi-Axial Forging and Multi-Axial Diagonal Forging of AA1100 Using Finite Element Analysis. <i>Journal of Korean Institute of Metals and Materials</i> , 2019, 57, 18-27.	1.0	4
54	Evolution of the microstructure and mechanical properties of interstitial-free steel during multi-axial diagonal forging. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 846, 143242.	5.6	4

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55	The Effect of Initial Texture on Deformation Behaviors of Mg Alloys Under Erichsen Test. Minerals, Metals and Materials Series, 2018, , 223-229.	0.4	3
56	A new contour method for rapid evaluation of the cross-sectional residual stress distribution in complex geometries using a 3D scanner. Journal of Mechanical Science and Technology, 2020, 34, 1989-1996.	1.5	3
57	Technical Investigation into the In-situ Electron Backscatter Diffraction Analysis for the Recrystallization Study on Extra Low Carbon Steels. Applied Microscopy, 2013, 43, 88-97.	1.4	3
58	Unraveling the formation mechanism of deformation bands in AA1100 alloy during plane forging and return-plane forging. International Journal of Mechanical Sciences, 2022, 223, 107268.	6.7	3
59	Stability of initial texture components during deep drawing of FCC polycrystals. Metals and Materials International, 1998, 4, 489-497.	0.2	3
60	Effect of microstructural features on the planar anisotropy of the R-value in Cu-added bake-hardenable steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 621, 82-93.	5.6	2
61	An Investigation of Detwinning Behavior of In-plane Compressed E-form Mg Alloy During the In Situ Tensile Test. Minerals, Metals and Materials Series, 2019, , 201-206.	0.4	0