

Hyuk Jong Bong

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.

27
papers

423
citations

13
h-index

20
g-index

28
ext. papers

549
ext. citations

5
avg, IF

4.16
L-index

#	Paper	IF	Citations
27	Modeling crystal plasticity with an enhanced twinning-detwinning model to simulate cyclic behavior of AZ31B magnesium alloy at various temperatures. <i>International Journal of Plasticity</i> , 2022 , 150, 103190	7.6	4
26	A probabilistic mean-field and microstructure based finite element modeling for predicting mechanical and ductile fracture behavior of the cast aluminum alloy. <i>International Journal of Plasticity</i> , 2022 , 154, 103299	7.6	1
25	Comparison of three state-of-the-art crystal plasticity based deformation twinning models for magnesium alloys. <i>Computational Materials Science</i> , 2022 , 210, 111480	3.2	0
24	A finite element formulation for deformation twinning induced strain localization in polycrystal magnesium alloys. <i>Computational Materials Science</i> , 2021 , 190, 110323	3.2	4
23	Predicting hot deformation behaviors under multiaxial loading using the Gurson-Tvergaard-Needleman damage model for Ti-6Al-4V alloy sheets. <i>European Journal of Mechanics, A/Solids</i> , 2021 , 87, 104227	3.7	4
22	Crystal plasticity finite element Marciniak-Kuczynski approach with surface roughening effect in predicting formability of ultra-thin ferritic stainless steel sheets. <i>International Journal of Mechanical Sciences</i> , 2021 , 191, 106066	5.5	8
21	Study on Plastic Response Under Biaxial Tension and Its Correlation with Formability for Wrought Magnesium Alloys. <i>Jom</i> , 2020 , 72, 2568-2577	2.1	4
20	An enhanced distortional-hardening-based constitutive model for hexagonal close-packed metals: Application to AZ31B magnesium alloy sheets at elevated temperatures. <i>International Journal of Plasticity</i> , 2020 , 126, 102618	7.6	13
19	Predicting forming limit diagrams for magnesium alloys using crystal plasticity finite elements. <i>International Journal of Plasticity</i> , 2020 , 126, 102630	7.6	21
18	Mechanism-based constitutive modeling of ZEK100 magnesium alloy with crystal plasticity and in-situ HEXRD experiment. <i>International Journal of Plasticity</i> , 2019 , 113, 35-51	7.6	23
17	Metal plasticity and ductile fracture modeling for cast aluminum alloy parts. <i>Journal of Materials Processing Technology</i> , 2018 , 255, 584-595	5.3	16
16	Advanced constitutive modeling of advanced high strength steel sheets for springback prediction after double stage U-draw bending. <i>International Journal of Solids and Structures</i> , 2018 , 151, 152-164	3.1	28
15	A Coupled Crystal Plasticity and Anisotropic Yield Function Model to Identify the Anisotropic Plastic Properties and Friction Behavior of an AA 3003 Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 282-294	2.3	9
14	A numerical study on chain-die forming of the AHSS U-channel and contrast with roll forming. <i>International Journal of Mechanical Sciences</i> , 2018 , 135, 279-293	5.5	17
13	Developing anisotropic yield models of polycrystalline tantalum using crystal plasticity finite element simulations. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 730, 50-56	5.3	16
12	An RVE procedure for micromechanical prediction of mechanical behavior of dual-phase steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 695, 101-111	5.3	25
11	Mechanism of the Bauschinger effect in Al-Ge-Si alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 684, 353-372	5.3	14

10	Two-stage forming approach for manufacturing ferritic stainless steel bipolar plates in PEM fuel cell: Experiments and numerical simulations. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 6965-6977	6.7	27
9	Probing Formability Improvement of Ultra-thin Ferritic Stainless Steel Bipolar Plate of PEMFC in Non-conventional Forming Process. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 4160-4174	2.3	13
8	Elastic-plastic transition: A universal law. <i>MATEC Web of Conferences</i> , 2016 , 80, 11001	0.3	3
7	Evolutionary anisotropy and flow stress in advanced high strength steels under loading path changes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 672, 65-77	5.3	20
6	The elastic-plastic transition of metals. <i>International Journal of Plasticity</i> , 2016 , 83, 178-201	7.6	40
5	Application of central composite design for optimization of two-stage forming process using ultra-thin ferritic stainless steel. <i>Metals and Materials International</i> , 2016 , 22, 276-287	2.4	12
4	Anisotropic Yield Functions 2015 , 43-48		
3	Formability of austenitic and ferritic stainless steels at warm forming temperature. <i>International Journal of Mechanical Sciences</i> , 2013 , 75, 94-109	5.5	41
2	The forming limit diagram of ferritic stainless steel sheets: Experiments and modeling. <i>International Journal of Mechanical Sciences</i> , 2012 , 64, 1-10	5.5	59
1	Determination of the Forming Limit Diagram of an Ultra-Thin Ferritic Stainless Steel Sheet 2011 ,		1