

Hyuk Jong Bong

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

678
citations

471061

17
h-index

552369

26
g-index

28
all docs

28
docs citations

28
times ranked

467
citing authors

#	ARTICLE	IF	CITATIONS
1	The forming limit diagram of ferritic stainless steel sheets: Experiments and modeling. International Journal of Mechanical Sciences, 2012, 64, 1-10.	3.6	68
2	The elasticâ€plastic transition of metals. International Journal of Plasticity, 2016, 83, 178-201.	4.1	53
3	Formability of austenitic and ferritic stainless steels at warm forming temperature. International Journal of Mechanical Sciences, 2013, 75, 94-109.	3.6	49
4	Two-stage forming approach for manufacturing ferritic stainless steel bipolar plates in PEM fuel cell: Experiments and numerical simulations. International Journal of Hydrogen Energy, 2017, 42, 6965-6977.	3.8	48
5	Advanced constitutive modeling of advanced high strength steel sheets for springback prediction after double stage U-draw bending. International Journal of Solids and Structures, 2018, 151, 152-164.	1.3	46
6	An RVE procedure for micromechanical prediction of mechanical behavior of dual-phase steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 695, 101-111.	2.6	40
7	Mechanism-based constitutive modeling of ZEK100 magnesium alloy with crystal plasticity and in-situ HEXRD experiment. International Journal of Plasticity, 2019, 113, 35-51.	4.1	37
8	Predicting forming limit diagrams for magnesium alloys using crystal plasticity finite elements. International Journal of Plasticity, 2020, 126, 102630.	4.1	36
9	Evolutionary anisotropy and flow stress in advanced high strength steels under loading path changes. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 672, 65-77.	2.6	29
10	Metal plasticity and ductile fracture modeling for cast aluminum alloy parts. Journal of Materials Processing Technology, 2018, 255, 584-595.	3.1	28
11	A numerical study on chain-die forming of the AHSS U-channel and contrast with roll forming. International Journal of Mechanical Sciences, 2018, 135, 279-293.	3.6	27
12	An enhanced distortional-hardening-based constitutive model for hexagonal close-packed metals: Application to AZ31B magnesium alloy sheets at elevated temperatures. International Journal of Plasticity, 2020, 126, 102618.	4.1	26
13	Developing anisotropic yield models of polycrystalline tantalum using crystal plasticity finite element simulations. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 730, 50-56.	2.6	21
14	Crystal plasticity finite elementâ€Marciniak-Kuczynski approach with surface roughening effect in predicting formability of ultra-thin ferritic stainless steel sheets. International Journal of Mechanical Sciences, 2021, 191, 106066.	3.6	21
15	Mechanism of the Bauschinger effect in Al-Ge-Si alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 684, 353-372.	2.6	20
16	Modeling crystal plasticity with an enhanced twinningâ€detwinning model to simulate cyclic behavior of AZ31B magnesium alloy at various temperatures. International Journal of Plasticity, 2022, 150, 103190.	4.1	20
17	A probabilistic mean-field and microstructure based finite element modeling for predicting mechanical and ductile fracture behavior of the cast aluminum alloy. International Journal of Plasticity, 2022, 154, 103299.	4.1	17
18	Probing Formability Improvement of Ultra-thin Ferritic Stainless Steel Bipolar Plate of PEMFC in Non-conventional Forming Process. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 4160-4174.	1.1	16

#	ARTICLE	IF	CITATIONS
19	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.	1.8	14
20	A finite element formulation for deformation twinning induced strain localization in polycrystal magnesium alloys. <i>Computational Materials Science</i> , 2021, 190, 110323.	1.4	13
21	Predicting hot deformation behaviors under multiaxial loading using the Curson-Tvergaard-Needleman damage model for Ti-6Al-4V alloy sheets. <i>European Journal of Mechanics, A/Solids</i> , 2021, 87, 104227.	2.1	12
22	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.	1.1	10
23	Comparison of three state-of-the-art crystal plasticity based deformation twinning models for magnesium alloys. <i>Computational Materials Science</i> , 2022, 210, 111480.	1.4	8
24	Study on Plastic Response Under Biaxial Tension and Its Correlation with Formability for Wrought Magnesium Alloys. <i>Jom</i> , 2020, 72, 2568-2577.	0.9	7
25	Temperature-dependent constitutive modeling of a magnesium alloy ZEK100 sheet using crystal plasticity models combined with in situ high-energy X-ray diffraction experiment. <i>Journal of Magnesium and Alloys</i> , 2022, 10, 2801-2816.	5.5	7
26	Elastic-plastic transition: A universal law. <i>MATEC Web of Conferences</i> , 2016, 80, 11001.	0.1	3
27	Determination of the Forming Limit Diagram of an Ultra-Thin Ferritic Stainless Steel Sheet. <i>AIP Conference Proceedings</i> , 2011, , .	0.3	2
28	Anisotropic Yield Functions. , 2015, , 43-48.		0