

Jeong Whan Yoon

List of Publications by Citations

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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.

188
papers

7,022
citations

42
h-index

81
g-index

225
ext. papers

8,039
ext. citations

4
avg, IF

6.28
L-index

#	Paper	IF	Citations
188	Plane stress yield function for aluminum alloy sheets—part 1: theory. <i>International Journal of Plasticity</i> , 2003 , 19, 1297-1319	7.6	1135
187	Linear transformation-based anisotropic yield functions. <i>International Journal of Plasticity</i> , 2005 , 21, 1009-1039	7.6	650
186	Prediction of six or eight ears in a drawn cup based on a new anisotropic yield function. <i>International Journal of Plasticity</i> , 2006 , 22, 174-193	7.6	225
185	Modeling of shear ductile fracture considering a changeable cut-off value for stress triaxiality. <i>International Journal of Plasticity</i> , 2014 , 54, 56-80	7.6	219
184	Plane stress yield function for aluminum alloy sheets—part II: FE formulation and its implementation. <i>International Journal of Plasticity</i> , 2004 , 20, 495-522	7.6	212
183	On linear transformations of stress tensors for the description of plastic anisotropy. <i>International Journal of Plasticity</i> , 2007 , 23, 876-896	7.6	169
182	Anisotropic hardening and non-associated flow in proportional loading of sheet metals. <i>International Journal of Plasticity</i> , 2009 , 25, 1777-1817	7.6	165
181	A new approach for failure criterion for sheet metals. <i>International Journal of Plasticity</i> , 2011 , 27, 440-459	7.6	151
180	A pressure-sensitive yield criterion under a non-associated flow rule for sheet metal forming. <i>International Journal of Plasticity</i> , 2004 , 20, 705-731	7.6	140
179	Asymmetric yield function based on the stress invariants for pressure sensitive metals. <i>International Journal of Plasticity</i> , 2014 , 56, 184-202	7.6	137
178	Enhanced assumed strain (EAS) and assumed natural strain (ANS) methods for one-point quadrature solid-shell elements. <i>International Journal for Numerical Methods in Engineering</i> , 2008 , 75, 156-187	2.4	124
177	Earing predictions based on asymmetric nonquadratic yield function. <i>International Journal of Plasticity</i> , 2000 , 16, 1075-1104	7.6	115
176	Elasto-plastic finite element method based on incremental deformation theory and continuum based shell elements for planar anisotropic sheet materials. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1999 , 174, 23-56	5.7	115
175	Modeling of ductile fracture from shear to balanced biaxial tension for sheet metals. <i>International Journal of Solids and Structures</i> , 2017 , 112, 169-184	3.1	114
174	Path independent forming limits in strain and stress spaces. <i>International Journal of Solids and Structures</i> , 2012 , 49, 3616-3625	3.1	94
173	Effect of anisotropic yield functions on the accuracy of hole expansion simulations. <i>Journal of Materials Processing Technology</i> , 2011 , 211, 475-481	5.3	90
172	Crushing response of square aluminium tubes filled with polyurethane foam and aluminium honeycomb. <i>Thin-Walled Structures</i> , 2017 , 110, 140-154	4.7	86

171	Anisotropic yield function based on stress invariants for BCC and FCC metals and its extension to ductile fracture criterion. <i>International Journal of Plasticity</i> , 2018 , 101, 125-155	7.6	85
170	On the use of homogeneous polynomials to develop anisotropic yield functions with applications to sheet forming. <i>International Journal of Plasticity</i> , 2008 , 24, 915-944	7.6	81
169	A non-associated constitutive model with mixed iso-kinematic hardening for finite element simulation of sheet metal forming. <i>International Journal of Plasticity</i> , 2010 , 26, 288-309	7.6	80
168	A new one-point quadrature enhanced assumed strain (EAS) solid-shell element with multiple integration points along thickness: Part II: nonlinear applications. <i>International Journal for Numerical Methods in Engineering</i> , 2006 , 67, 160-188	2.4	80
167	Optimum blank design in sheet metal forming by the deformation path iteration method. <i>International Journal of Mechanical Sciences</i> , 1999 , 41, 1217-1232	5.5	80
166	A general elasto-plastic finite element formulation based on incremental deformation theory for planar anisotropy and its application to sheet metal forming. <i>International Journal of Plasticity</i> , 1999 , 15, 35-67	7.6	79
165	A new one-point quadrature enhanced assumed strain (EAS) solid-shell element with multiple integration points along thickness: Part I: geometrically linear applications. <i>International Journal for Numerical Methods in Engineering</i> , 2005 , 62, 952-977	2.4	76
164	Sheet metal formability analysis for anisotropic materials under non-proportional loading. <i>International Journal of Mechanical Sciences</i> , 2005 , 47, 1972-2002	5.5	71
163	On the use of a reduced enhanced solid-shell (RESS) element for sheet forming simulations. <i>International Journal of Plasticity</i> , 2007 , 23, 490-515	7.6	69
162	Review of Drucker's postulate and the issue of plastic stability in metal forming. <i>International Journal of Plasticity</i> , 2006 , 22, 391-433	7.6	66
161	Anisotropic ductile fracture criterion based on linear transformation. <i>International Journal of Plasticity</i> , 2017 , 93, 3-25	7.6	65
160	Anisotropic strain hardening behavior in simple shear for cube textured aluminum alloy sheets. <i>International Journal of Plasticity</i> , 2005 , 21, 2426-2447	7.6	65
159	A yield criterion through coupling of quadratic and non-quadratic functions for anisotropic hardening with non-associated flow rule. <i>International Journal of Plasticity</i> , 2017 , 99, 120-143	7.6	62
158	Earing predictions for strongly textured aluminum sheets. <i>International Journal of Mechanical Sciences</i> , 2010 , 52, 1563-1578	5.5	62
157	A new analytical theory for earing generated from anisotropic plasticity. <i>International Journal of Plasticity</i> , 2011 , 27, 1165-1184	7.6	61
156	Strain rate effect of high purity aluminum single crystals: Experiments and simulations. <i>International Journal of Plasticity</i> , 2015 , 67, 39-52	7.6	60
155	Biaxial deformation behaviour of AZ31 magnesium alloy: Crystal-plasticity-based prediction and experimental validation. <i>International Journal of Solids and Structures</i> , 2012 , 49, 3551-3561	3.1	57
154	Evaluation of advanced anisotropic models with mixed hardening for general associated and non-associated flow metal plasticity. <i>International Journal of Plasticity</i> , 2011 , 27, 1781-1802	7.6	51

153	Orthotropic strain rate potential for the description of anisotropy in tension and compression of metals. <i>International Journal of Plasticity</i> , 2010 , 26, 887-904	7.6	51
152	Development of a one point quadrature shell element for nonlinear applications with contact and anisotropy. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2002 , 191, 5177-5206	5.7	50
151	A novel approach for anisotropic hardening modeling. Part I: Theory and its application to finite element analysis of deep drawing. <i>International Journal of Plasticity</i> , 2009 , 25, 2383-2409	7.6	48
150	Finite element method for sheet forming based on an anisotropic strain-rate potential and the convected coordinate system. <i>International Journal of Mechanical Sciences</i> , 1995 , 37, 733-752	5.5	48
149	Study on the definition of equivalent plastic strain under non-associated flow rule for finite element formulation. <i>International Journal of Plasticity</i> , 2014 , 58, 219-238	7.6	46
148	Consideration of strength differential effect in sheet metals with symmetric yield functions. <i>International Journal of Mechanical Sciences</i> , 2013 , 66, 214-223	5.5	45
147	Stress integration method for a nonlinear kinematic/isotropic hardening model and its characterization based on polycrystal plasticity. <i>International Journal of Plasticity</i> , 2009 , 25, 1684-1710	7.6	44
146	Suppression of necking in incremental sheet forming. <i>International Journal of Solids and Structures</i> , 2014 , 51, 2840-2849	3.1	42
145	Springback prediction for sheet metal forming process using a 3D hybrid membrane/shell method. <i>International Journal of Mechanical Sciences</i> , 2002 , 44, 2133-2153	5.5	40
144	One point quadrature shell element with through-thickness stretch. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2005 , 194, 1161-1199	5.7	40
143	A new approach to reduce membrane and transverse shear locking for one-point quadrature shell elements: linear formulation. <i>International Journal for Numerical Methods in Engineering</i> , 2006 , 66, 214-249	4.4	39
142	Necking behavior of AA 6022-T4 based on the crystal plasticity and damage models. <i>International Journal of Plasticity</i> , 2015 , 73, 3-23	7.6	38
141	Failure prediction in the hole-flanging process of aluminium alloys. <i>Engineering Fracture Mechanics</i> , 2013 , 99, 251-265	4.2	37
140	On the existence of indeterminate solutions to the equations of motion under non-associated flow. <i>International Journal of Plasticity</i> , 2008 , 24, 583-613	7.6	37
139	Correlation of the maximum shear stress with micro-mechanisms of ductile fracture for metals with high strength-to-weight ratio. <i>International Journal of Mechanical Sciences</i> , 2018 , 146-147, 583-601	5.5	36
138	Kinematics of Portevin-Chatelier bands in simple shear. <i>International Journal of Plasticity</i> , 2014 , 58, 66-83	7.6	36
137	The effect of plastic anisotropy on compressive instability in sheet metal forming. <i>International Journal of Plasticity</i> , 2000 , 16, 649-676	7.6	36
136	Phospholipase D1 drives a positive feedback loop to reinforce the Wnt/beta-catenin/TCF signaling axis. <i>Cancer Research</i> , 2010 , 70, 4233-42	10.1	35

135	Wrinkling initiation and growth in modified Yoshida buckling test: Finite element analysis and experimental comparison. <i>International Journal of Mechanical Sciences</i> , 2000 , 42, 1683-1714	5.5	34
134	A criterion for general description of anisotropic hardening considering strength differential effect with non-associated flow rule. <i>International Journal of Plasticity</i> , 2019 , 121, 76-100	7.6	33
133	Mechanical behavior of an asymmetrically rolled and annealed 1050-O sheet. <i>International Journal of Mechanical Sciences</i> , 2008 , 50, 1372-1380	5.5	32
132	Ideal sheet forming with frictional constraints. <i>International Journal of Plasticity</i> , 2000 , 16, 595-610	7.6	31
131	Buckling analysis for an integrally stiffened panel structure with a friction stir weld. <i>Thin-Walled Structures</i> , 2009 , 47, 1608-1622	4.7	30
130	A novel approach for anisotropic hardening modeling. Part II: Anisotropic hardening in proportional and non-proportional loadings, application to initially isotropic material. <i>International Journal of Plasticity</i> , 2010 , 26, 1029-1049	7.6	30
129	Anisotropic fracture forming limit diagram considering non-directionality of the equi-biaxial fracture strain. <i>International Journal of Solids and Structures</i> , 2018 , 151, 181-194	3.1	29
128	Kinematic hardening model considering directional hardening response. <i>International Journal of Plasticity</i> , 2018 , 110, 145-165	7.6	27
127	Investigation into wrinkling behavior in the elliptical cup deep drawing process by finite element analysis using bifurcation theory. <i>Journal of Materials Processing Technology</i> , 2001 , 111, 170-174	5.3	26
126	Stress integration-based on finite difference method and its application for anisotropic plasticity and distortional hardening under associated and non-associated flow rules. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019 , 345, 123-160	5.7	25
125	Microstructural evolution and its effect on mechanical properties of commercially pure aluminum deformed by ECAE (Equal Channel Angular Extrusion) via routes A and C. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 7927-7930	5.3	24
124	Investigation into the wrinkling behaviour of thin sheets in the cylindrical cup deep drawing process using bifurcation theory. <i>International Journal for Numerical Methods in Engineering</i> , 2003 , 56, 1673-1705 ^{2.4}	5.4	24
123	Combined anisotropic and distortion hardening to describe directional response with Bauschinger effect. <i>International Journal of Plasticity</i> , 2019 , 122, 73-88	7.6	23
122	Effect of Anisotropic Yield Functions on the Accuracy of Hole Expansion Simulations for 590 MPa Grade Steel Sheet. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2010 , 96, 557-563	0.5	23
121	Influence of initial back stress on the earing prediction of drawn cups for planar anisotropic aluminum sheets. <i>Journal of Materials Processing Technology</i> , 1998 , 80-81, 433-437	5.3	21
120	On the elasto-plastic buckling of Integrally Stiffened Panels (ISP) joined by Friction Stir Welding (FSW): Numerical simulation and optimization algorithms. <i>International Journal of Mechanical Sciences</i> , 2013 , 76, 49-59	5.5	20
119	A non-associated plasticity model with anisotropic and nonlinear kinematic hardening for simulation of sheet metal forming. <i>International Journal of Solids and Structures</i> , 2015 , 69-70, 370-382	3.1	20
118	Investigation of microstructure characteristics of commercially pure aluminum during equal channel angular extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 485, 621-626	5.3	20

117	Numerical modeling and analysis for forming process of dual-phase 980 steel exposed to infrared local heating. <i>International Journal of Solids and Structures</i> , 2015 , 75-76, 211-224	3.1	19
116	A new approach for fracture prediction considering general anisotropy of metal sheets. <i>International Journal of Plasticity</i> , 2020 , 124, 199-225	7.6	19
115	Alternative approach to model ductile fracture by incorporating anisotropic yield function. <i>International Journal of Solids and Structures</i> , 2019 , 164, 12-24	3.1	18
114	Prediction of failure in bending of an aluminium sheet alloy. <i>International Journal of Mechanical Sciences</i> , 2016 , 119, 23-35	5.5	17
113	A new strategy to describe nonlinear elastic and asymmetric plastic behaviors with one yield surface. <i>International Journal of Plasticity</i> , 2017 , 98, 217-238	7.6	16
112	A stress integration algorithm for plane stress elastoplasticity and its applications to explicit finite element analysis of sheet metal forming processes. <i>Computers and Structures</i> , 1998 , 66, 301-311	4.5	16
111	Enhanced one-point quadrature shell element for nonlinear applications. <i>International Journal for Numerical Methods in Engineering</i> , 2007 , 69, 627-663	2.4	16
110	Incorporation of Sheet-Forming Effects in Crash Simulations Using Ideal Forming Theory and Hybrid Membrane and Shell Method. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2005 , 127, 182-192	3.3	16
109	Modeling of anisotropic plastic behavior of ferritic stainless steel sheet. <i>International Journal of Mechanical Sciences</i> , 2009 , 51, 718-725	5.5	15
108	One point quadrature shell elements for sheet metal forming analysis. <i>Archives of Computational Methods in Engineering</i> , 2005 , 12, 3-66	7.8	15
107	One point quadrature shell elements: a study on convergence and patch tests. <i>Computational Mechanics</i> , 2007 , 40, 871-883	4	14
106	Strength modeling of sheet metals from shear to plane strain tension. <i>International Journal of Plasticity</i> , 2020 , 134, 102813	7.6	14
105	A coupled yield criterion for anisotropic hardening with analytical description under associated flow rule: Modeling and validation. <i>International Journal of Plasticity</i> , 2021 , 136, 102882	7.6	14
104	Anisotropic Behavior in Plasticity and Ductile Fracture of an Aluminum Alloy. <i>Key Engineering Materials</i> , 2015 , 651-653, 163-168	0.4	13
103	Plastic anisotropy and failure in thin metal: Material characterization and fracture prediction with an advanced constitutive model and polar EPS (effective plastic strain) fracture diagram for AA 3014-H19. <i>International Journal of Solids and Structures</i> , 2018 , 151, 195-213	3.1	13
102	A reduced Yld2004 function for modeling of anisotropic plastic deformation of metals under triaxial loading. <i>International Journal of Mechanical Sciences</i> , 2019 , 161-162, 105027	5.5	13
101	A manufacturing process using the infrared ray local heating method for seat cross members. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 89, 3299-3305	3.2	13
100	Puncture fracture in an aluminum beverage can. <i>International Journal of Impact Engineering</i> , 2010 , 37, 150-160	4	13

99	An Experimental Study of Square Aluminium Tubes with Honeycomb Core Subjected to Quasi-Static Compressive Loads. <i>Key Engineering Materials</i> , 2014 , 626, 91-96	0.4	12
98	Benchmark 3 - Incremental sheet forming 2013 ,		12
97	Elasto-plastic buckling of integrally stiffened panels (ISP): An optimization approach for the design of cross-section profiles. <i>Thin-Walled Structures</i> , 2011 , 49, 864-873	4.7	12
96	Modeling of aluminum alloy sheets based on new anisotropic yield functions. <i>Journal of Materials Processing Technology</i> , 2006 , 177, 134-137	5.3	12
95	Stress based prediction of formability and failure in incremental sheet forming. <i>International Journal of Material Forming</i> , 2016 , 9, 413-421	2	10
94	Path-independent forming limit models for multi-stage forming processes. <i>International Journal of Material Forming</i> , 2016 , 9, 327-337	2	10
93	Study on springback from thermal-mechanical boundary condition imposed to V-bending and L-bending processes coupled with infrared rays local heating. <i>International Journal of Material Forming</i> , 2018 , 11, 417-433	2	10
92	Hole expansion simulation of high strength steel sheet. <i>International Journal of Material Forming</i> , 2010 , 3, 259-262	2	10
91	Characterizations of Aluminum Alloy Sheet Materials Numisheet 2005. <i>AIP Conference Proceedings</i> , 2005 ,	0	10
90	Sheet Metal Forming Simulation for Aluminum Alloy Sheets 2000 ,		10
89	Analytical description of an asymmetric yield function (Yoon2014) by considering anisotropic hardening under non-associated flow rule. <i>International Journal of Plasticity</i> , 2021 , 140, 102978	7.6	9
88	Benchmark 3 - Springback of an Al-Mg alloy in warm forming conditions. <i>Journal of Physics: Conference Series</i> , 2016 , 734, 022003	0.3	9
87	Simulation of earing behaviors in bake hardening steel exhibiting a strong off-Fiber component. <i>International Journal of Solids and Structures</i> , 2012 , 49, 3573-3581	3.1	8
86	Interplay between plastic deformations and optical properties of metal surfaces: A multiscale study. <i>Applied Physics Letters</i> , 2009 , 95, 084106	3.4	8
85	Design optimization of extruded preform for hydroforming processes based on ideal forming design theory. <i>International Journal of Mechanical Sciences</i> , 2006 , 48, 1416-1428	5.5	8
84	Gripless nanotension test for determination of nano-scale properties. <i>International Journal of Plasticity</i> , 2011 , 27, 1527-1536	7.6	7
83	Effect of asymmetrical rolling and annealing the mechanical response of an 1050-o sheet. <i>International Journal of Material Forming</i> , 2009 , 2, 891-894	2	7
82	Earing Prediction in Cup Drawing Based on Non-Associated Flow Rule. <i>AIP Conference Proceedings</i> , 2007 ,	0	7

81	Comparative investigation into the dynamic explicit and the static implicit method for springback of sheet metal stamping. <i>Engineering Computations</i> , 1999 , 16, 347-373	1.4	7
80	Finite-element analysis and design of binder wraps for automobile sheet metal parts using surface boundary condition. <i>Journal of Materials Engineering and Performance</i> , 1995 , 4, 593-598	1.6	7
79	Machine learning-based constitutive model for J2- plasticity. <i>International Journal of Plasticity</i> , 2021 , 138, 102919	7.6	7
78	Study on Yield Function and Plastic Potential Under Non-Associated Flow for Accurate Earing Prediction in Cup Drawing. <i>Steel Research International</i> , 2015 , 86, 852-860	1.6	6
77	Paradigm Change: Alternate Approaches to Constitutive and Necking Models for Sheet Metal Forming 2011 ,		6
76	A multiplicative plastic hardening model in consideration of strain softening and strain rate: Theoretical derivation and characterization of model parameters with simple tension and creep test. <i>International Journal of Mechanical Sciences</i> , 2020 , 187, 105913	5.5	5
75	Subspace analysis to alleviate the volumetric locking in the 3D solid-shell EFG method. <i>Journal of Computational and Applied Mathematics</i> , 2013 , 246, 185-194	2.4	5
74	Material characterizations for Benchmark 1 and Benchmark 2 2013 ,		5
73	Bifurcation Instability of sheet metal during spring-back. <i>Philosophical Magazine</i> , 2013 , 93, 1914-1935	1.6	5
72	Analytical Approach to Predict Anisotropic Material Properties from Cup Drawings. <i>International Journal of Material Forming</i> , 2008 , 1, 301-304	2	5
71	Analytical determination of anisotropic parameters for Poly6 yield function. <i>International Journal of Mechanical Sciences</i> , 2021 , 201, 106467	5.5	5
70	Development of MERCURY for simulation of multidimensional fuel behavior for LOCA condition. <i>Nuclear Engineering and Design</i> , 2020 , 369, 110853	1.8	4
69	On the efficiency and accuracy of stress integration algorithms for constitutive models based on non-associated flow rule. <i>International Journal of Material Forming</i> , 2018 , 11, 239-246	2	4
68	Enhanced Constitutive Model for Aeronautic Aluminium Alloy (AA2024-T351) under High Strain Rates and Elevated Temperatures. <i>International Journal of Automotive Technology</i> , 2019 , 20, 79-87	1.6	4
67	Yield and strain rate potentials for aluminum alloy sheet forming design. <i>Metals and Materials International</i> , 1998 , 4, 931-938		4
66	Applications of a Recently Proposed Anisotropic Yield Function to Sheet Forming 2007 , 131-149		4
65	Crash Simulations Considering Sheet Forming Effects Based on Ideal Forming Theory and Hybrid Membrane/Shell Method. <i>AIP Conference Proceedings</i> , 2004 ,	0	4
64	A new asymmetric yield criterion based on Yld 2000-2d under both associated and non-associated flow rules: Modeling and validation. <i>Mechanics of Materials</i> , 2022 , 167, 104245	3.3	4

63	A Springback Prediction of 1.5 GPa Grade Steel in Roll Forming Process for Automotive Sill-Side Inner Component. <i>Key Engineering Materials</i> , 2019 , 794, 267-274	0.4	3
62	A novel approach for modeling of anisotropic hardening and non proportional loading paths, application to finite element analysis of deep drawing. <i>International Journal of Material Forming</i> , 2009 , 2, 367-370	2	3
61	Strain-rate potential based elastic/plastic anisotropic model for metals displaying tension/compression asymmetry. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011 , 200, 1993-2004	5.7	3
60	On the influence of fsw in the elastoplastic buckling load-carrying capacity of extruded integrally stiffened panels for aeronautic applications. <i>International Journal of Material Forming</i> , 2010 , 3, 1019-1022	2	3
59	On Using Homogeneous Polynomials To Design Anisotropic Yield Functions With Tension/Compression Symmetry/Assymetry. <i>AIP Conference Proceedings</i> , 2007 ,	0	3
58	A user-friendly anisotropic ductile fracture criterion for sheet metal under proportional loading. <i>International Journal of Solids and Structures</i> , 2021 , 217-218, 48-59	3.1	3
57	Robust characterization of anisotropic shear fracture strains with constant triaxiality using shape optimization of torsional twin bridge specimen. <i>CIRP Annals - Manufacturing Technology</i> , 2021 , 70, 211-214	4.9	3
56	Shape optimization of shear fracture specimen considering plastic anisotropy 2017 ,		2
55	Assessment of Newly Developed Ductile Fracture Criteria for Lightweight Metals. <i>Key Engineering Materials</i> , 2019 , 794, 42-47	0.4	2
54	Evolution of residual stress distortion of a machined product for AA7085. <i>Production Engineering</i> , 2019 , 13, 123-131	1.9	2
53	Finite Element formulation of a general asymmetrical yield function for pressure sensitive metals. <i>Procedia Engineering</i> , 2017 , 207, 215-220		2
52	J2 - J3 based anisotropic yield function under spatial loading. <i>Procedia Engineering</i> , 2017 , 207, 233-238		2
51	Modeling the Effect of Asymmetric Rolling on Mechanical Properties of AlMg Alloys. <i>Steel Research International</i> , 2015 , 86, 922-931	1.6	2
50	Wrinkling during Cup Drawing with NUMISHEET2014 Benchmark Test. <i>Steel Research International</i> , 2015 , 86, 915-921	1.6	2
49	Benchmark 4 - Wrinkling during cup drawing 2013 ,		2
48	Analysis of the Necking Behaviors with the Crystal Plasticity Model Using 3-Dimensional Shaped Grains. <i>Advanced Materials Research</i> , 2013 , 684, 357-361	0.5	2
47	Comparsion of forming and fracture limits of an aluminum alloy and austenitic stainless steel. <i>International Journal of Material Forming</i> , 2009 , 2, 431-434	2	2
46	Effect of Asymmetric Rolling on Plastic Anisotropy of Low Carbon Steels during Simple Shear Tests 2010 ,		2

45	Direct Design Method Based on Ideal Forming Theory for Hydroforming and Flanging Processes. <i>AIP Conference Proceedings</i> , 2005 ,	0	2
44	Anisotropic distortional hardening based on deviatoric stress invariants under non-associated flow rule. <i>International Journal of Plasticity</i> , 2022 , 151, 103214	7.6	2
43	Earing prediction of AA 2008-T4 with anisotropic Drucker yield function based on the second and third stress invariants. <i>Journal of Physics: Conference Series</i> , 2018 , 1063, 012113	0.3	2
42	Linear transformation based orthotropic shear ductile fracture criterion for lightweight metals 2017 ,		1
41	Material characterization and fracture prediction with advanced constitutive model and Polar EPS fracture diagram for AA 3104-H19. <i>Journal of Physics: Conference Series</i> , 2018 , 1063, 012156	0.3	1
40	Orthotropic ductile fracture criterion based on linear transformation. <i>Journal of Physics: Conference Series</i> , 2017 , 896, 012110	0.3	1
39	Stress-Based Forming Limit Curves 2014 , 71-84		1
38	Anisotropic hardening model based on non-associated flow rule and combined nonlinear kinematic hardening for sheet materials 2013 ,		1
37	Modified Mohr-Coulomb fracture model for anisotropic sheet materials under limited triaxial stress conditions 2013 ,		1
36	Genetic alterations of the CHOP gene in gastric cancers. <i>Molecular and Cellular Toxicology</i> , 2011 , 7, 1-6	1.6	1
35	A new axi-symmetric element for thin walled structures. <i>Computational Mechanics</i> , 2010 , 45, 281-296	4	1
34	On an Innovative Optimization Approach for the Design of Cross-section Profiles of Integrally Stiffened Panels Subjected to Elasto-plastic Buckling Deformation Modes. <i>International Journal of Material Forming</i> , 2010 , 3, 49-52	2	1
33	A Polycrystal Model to Evaluate Mechanical Properties of Asymmetrically Rolled AL Sheets. <i>International Journal of Material Forming</i> , 2010 , 3, 61-64	2	1
32	New Anisotropic Strain-rate Potential for Hexagonal Metals. <i>International Journal of Material Forming</i> , 2010 , 3, 227-230	2	1
31	Holistic design and simulation system in sheet metal forming processes. <i>Metals and Materials International</i> , 1998 , 4, 715-722		1
30	Material Models to Study the Bauschinger Effect on an Aluminum Shear Test Specimen. <i>AIP Conference Proceedings</i> , 2007 ,	0	1
29	A Review of the Relationship Between Microstructural Features and the Stress-Strain Behavior of Metals. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2005 , 36, 572-577	0.9	1
28	Path Independent Polar Effective Plastic Strain (PEPS) Diagram for Sheet Forming 2012 , 723-730		1

27	Development of Ultrafine-Grained Aluminum Tubes Using Severe Plastic Deformation Process. <i>Transactions of the Korean Society of Mechanical Engineers, A</i> , 2009 , 33, 1087-1090	1	1
26	A shear ductile fracture criterion for metal forming. <i>Journal of Physics: Conference Series</i> , 2016 , 734, 032137	1	1
25	Prediction of ballooning and burst for nuclear fuel cladding with anisotropic creep modeling during Loss of Coolant Accident (LOCA). <i>Nuclear Engineering and Technology</i> , 2021 , 53, 3379-3397	2.6	1
24	Prediction of fracture initiation in square cup drawing of DP980 using an anisotropic ductile fracture criterion. <i>Journal of Physics: Conference Series</i> , 2017 , 896, 012111	0.3	0
23	Reduced texture approach for crystal plasticity finite element method toward macroscopic engineering applications. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 967, 012071	0.4	0
22	Artificial intelligence for springback compensation with electric vehicle motor component. <i>International Journal of Material Forming</i> , 2022 , 15, 1	2	0
21	A Stress-Based Model for Shear Ductile Fracture. <i>Key Engineering Materials</i> , 2019 , 794, 3-8	0.4	
20	Dynamic Axial Compression of Square CFRP/Aluminium Tubes. <i>Key Engineering Materials</i> , 2019 , 794, 202-207	0.4	
19	The roles of yield function and plastic potential under non-associated flow rule for formability prediction with perturbation approach. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 967, 012027	0.4	
18	A pressure-coupled Drucker function for plasticity and fracture modelling of AA5182. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 967, 012029	0.4	
17	Stress update algorithm based on finite difference method and its application to homogenous anisotropic hardening (HAH) model. <i>Journal of Physics: Conference Series</i> , 2018 , 1063, 012011	0.3	
16	In honor of Kwansoo Chung. <i>International Journal of Plasticity</i> , 2014 , 58, 1-2	7.6	
15	A Comparison of EFGM and FEM for Nonlinear Solid Mechanics Problems. <i>Key Engineering Materials</i> , 2013 , 535-536, 434-437	0.4	
14	Convolute Cut-Edge Design with a New Anisotropic Yield Function for Earless Target Cup in a Circular Cup Drawing. <i>Materials Science Forum</i> , 2006 , 505-507, 1297-1302	0.4	
13	Texture, Microstructure and Forming of Aluminium Alloy Sheets. <i>Materials Science Forum</i> , 2003 , 426-432, 99-106	0.4	
12	Microstructure-Based Constitutive Modeling for the Analysis and Design of Aluminium Sheet Forming Processes. <i>Key Engineering Materials</i> , 2002 , 230-232, 497-500	0.4	
11	Path Independent Polar Effective Plastic Strain (PEPS) Diagram for Sheet Forming	723-730	
10	Bending Behavior to Fracture of an Aluminium Alloy Involving Pre-Strain. <i>Key Engineering Materials</i> , 2016 , 725, 495-501	0.4	

9	A new approach for advanced plasticity and fracture modelling. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 651, 012097	0.4
8	Finite element modeling and durability evaluation for rubber pad forming process. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 651, 012096	0.4
7	Machinability studies of AA2024-T351 alloy with uncoated carbide tool. <i>Materials Today: Proceedings</i> , 2021 , 44, 1058-1064	1.4
6	Constitutive modeling and FE implementation for anisotropic hardening under proportional loading conditions. <i>Journal of Physics: Conference Series</i> , 2018 , 1063, 012025	0.3
5	Extension of the DF2016 isotropic model into an anisotropic ductile fracture criterion. <i>Journal of Physics: Conference Series</i> , 2018 , 1063, 012148	0.3
4	Scratch Modeling of Paint Coated Sheet Metal for Multi-Stage Deep Drawing Process. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 418, 012100	0.4
3	FE implementation of HAH model using FDM-based stress update algorithm for springback prediction of AHSS sheets. <i>Journal of Physics: Conference Series</i> , 2018 , 1063, 012021	0.3
2	Superconducting MgB ₂ Wire Drawing Considering Anisotropic Hardening Behavior and Hydrostatic Effect. <i>Metals and Materials International</i> , 1	2.4
1	Modeling of the Anisotropic Evolution of Yield Surface Based on Non-associated Flow Rule. <i>Minerals, Metals and Materials Series</i> , 2022 , 355-364	0.3