

# Jeong Whan Yoon

## List of Publications by Year in descending order

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217  
papers

9,222  
citations

41258

49  
h-index

42291

92  
g-index

225  
all docs

225  
docs citations

225  
times ranked

2470  
citing authors

#	ARTICLE	IF	CITATIONS
1	Plane stress yield function for aluminum alloy sheetsâ€”part 1: theory. International Journal of Plasticity, 2003, 19, 1297-1319.	4.1	1,405
2	Linear transformation-based anisotropic yield functions. International Journal of Plasticity, 2005, 21, 1009-1039.	4.1	824
3	Modeling of shear ductile fracture considering a changeable cut-off value for stress triaxiality. International Journal of Plasticity, 2014, 54, 56-80.	4.1	324
4	Prediction of six or eight ears in a drawn cup based on a new anisotropic yield function. International Journal of Plasticity, 2006, 22, 174-193.	4.1	270
5	Plane stress yield function for aluminum alloy sheetsâ€”part II: FE formulation and its implementation. International Journal of Plasticity, 2004, 20, 495-522.	4.1	253
6	Anisotropic hardening and non-associated flow in proportional loading of sheet metals. International Journal of Plasticity, 2009, 25, 1777-1817.	4.1	227
7	Asymmetric yield function based on the stress invariants for pressure sensitive metals. International Journal of Plasticity, 2014, 56, 184-202.	4.1	203
8	On linear transformations of stress tensors for the description of plastic anisotropy. International Journal of Plasticity, 2007, 23, 876-896.	4.1	201
9	A pressure-sensitive yield criterion under a non-associated flow rule for sheet metal forming. International Journal of Plasticity, 2004, 20, 705-731.	4.1	189
10	Modeling of ductile fracture from shear to balanced biaxial tension for sheet metals. International Journal of Solids and Structures, 2017, 112, 169-184.	1.3	179
11	A new approach for failure criterion for sheet metals. International Journal of Plasticity, 2011, 27, 440-459.	4.1	171
12	Enhanced assumed strain (EAS) and assumed natural strain (ANS) methods for oneâ€”point quadrature solidâ€”shell elements. International Journal for Numerical Methods in Engineering, 2008, 75, 156-187.	1.5	144
13	Anisotropic yield function based on stress invariants for BCC and FCC metals and its extension to ductile fracture criterion. International Journal of Plasticity, 2018, 101, 125-155.	4.1	137
14	Elasto-plastic finite element method based on incremental deformation theory and continuum based shell elements for planar anisotropic sheet materials. Computer Methods in Applied Mechanics and Engineering, 1999, 174, 23-56.	3.4	134
15	Earing predictions based on asymmetric nonquadratic yield function. International Journal of Plasticity, 2000, 16, 1075-1104.	4.1	127
16	Crushing response of square aluminium tubes filled with polyurethane foam and aluminium honeycomb. Thin-Walled Structures, 2017, 110, 140-154.	2.7	123
17	Effect of anisotropic yield functions on the accuracy of hole expansion simulations. Journal of Materials Processing Technology, 2011, 211, 475-481.	3.1	112
18	Path independent forming limits in strain and stress spaces. International Journal of Solids and Structures, 2012, 49, 3616-3625.	1.3	112

#	ARTICLE	IF	CITATIONS
19	A yield criterion through coupling of quadratic and non-quadratic functions for anisotropic hardening with non-associated flow rule. International Journal of Plasticity, 2017, 99, 120-143.	4.1	109
20	On the use of homogeneous polynomials to develop anisotropic yield functions with applications to sheet forming. International Journal of Plasticity, 2008, 24, 915-944.	4.1	106
21	Anisotropic ductile fracture criterion based on linear transformation. International Journal of Plasticity, 2017, 93, 3-25.	4.1	100
22	A new one-point quadrature enhanced assumed strain (EAS) solid-shell element with multiple integration points along thickness—part II: nonlinear applications. International Journal for Numerical Methods in Engineering, 2006, 67, 160-188.	1.5	97
23	A general elasto-plastic finite element formulation based on incremental deformation theory for planar anisotropy and its application to sheet metal forming. International Journal of Plasticity, 1999, 15, 35-67.	4.1	96
24	Strain rate effect of high purity aluminum single crystals: Experiments and simulations. International Journal of Plasticity, 2015, 67, 39-52.	4.1	88
25	Optimum blank design in sheet metal forming by the deformation path iteration method. International Journal of Mechanical Sciences, 1999, 41, 1217-1232.	3.6	87
26	A new one-point quadrature enhanced assumed strain (EAS) solid-shell element with multiple integration points along thickness: Part I-geometrically linear applications. International Journal for Numerical Methods in Engineering, 2005, 62, 952-977.	1.5	87
27	A non-associated constitutive model with mixed iso-kinematic hardening for finite element simulation of sheet metal forming. International Journal of Plasticity, 2010, 26, 288-309.	4.1	86
28	Anisotropic strain hardening behavior in simple shear for cube textured aluminum alloy sheets. International Journal of Plasticity, 2005, 21, 2426-2447.	4.1	85
29	Review of Drucker's postulate and the issue of plastic stability in metal forming. International Journal of Plasticity, 2006, 22, 391-433.	4.1	82
30	Sheet metal formability analysis for anisotropic materials under non-proportional loading. International Journal of Mechanical Sciences, 2005, 47, 1972-2002.	3.6	81
31	A new analytical theory for earing generated from anisotropic plasticity. International Journal of Plasticity, 2011, 27, 1165-1184.	4.1	78
32	On the use of a reduced enhanced solid-shell (RESS) element for sheet forming simulations. International Journal of Plasticity, 2007, 23, 490-515.	4.1	77
33	A criterion for general description of anisotropic hardening considering strength differential effect with non-associated flow rule. International Journal of Plasticity, 2019, 121, 76-100.	4.1	77
34	Earing predictions for strongly textured aluminum sheets. International Journal of Mechanical Sciences, 2010, 52, 1563-1578.	3.6	72
35	Consideration of strength differential effect in sheet metals with symmetric yield functions. International Journal of Mechanical Sciences, 2013, 66, 214-223.	3.6	68
36	Biaxial deformation behaviour of AZ31 magnesium alloy: Crystal-plasticity-based prediction and experimental validation. International Journal of Solids and Structures, 2012, 49, 3551-3561.	1.3	66

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37	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.	4.1	62
38	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.	4.1	60
39	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.	3.6	60
40	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.	3.6	59
41	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.	4.1	58
42	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.	4.1	58
43	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.	3.4	57
44	Necking behavior of AA 6022-T4 based on the crystal plasticity and damage models. <i>International Journal of Plasticity</i> , 2015, 73, 3-23.	4.1	55
45	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.	1.3	55
46	Strength modeling of sheet metals from shear to plane strain tension. <i>International Journal of Plasticity</i> , 2020, 134, 102813.	4.1	55
47	Machine learning-based constitutive model for J2- plasticity. <i>International Journal of Plasticity</i> , 2021, 138, 102919.	4.1	55
48	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.	4.1	52
49	Suppression of necking in incremental sheet forming. <i>International Journal of Solids and Structures</i> , 2014, 51, 2840-2849.	1.3	49
50	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.	4.1	47
51	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.	3.6	46
52	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.	1.5	46
53	Failure prediction in the hole-flanging process of aluminium alloys. <i>Engineering Fracture Mechanics</i> , 2013, 99, 251-265.	2.0	45
54	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.	4.1	45

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55	One point quadrature shell element with through-thickness stretch. Computer Methods in Applied Mechanics and Engineering, 2005, 194, 1161-1199.	3.4	44
56	Kinematics of Portevin-Le Chatelier bands in simple shear. International Journal of Plasticity, 2014, 58, 66-83.	4.1	44
57	The effect of plastic anisotropy on compressive instability in sheet metal forming. International Journal of Plasticity, 2000, 16, 649-676.	4.1	43
58	Combined anisotropic and distortion hardening to describe directional response with Bauschinger effect. International Journal of Plasticity, 2019, 122, 73-88.	4.1	43
59	Phospholipase D1 Drives a Positive Feedback Loop to Reinforce the Wnt/ $\beta$ <sup>2</sup> -Catenin/TCF Signaling Axis. Cancer Research, 2010, 70, 4233-4242.	0.4	42
60	Stress integration-based on finite difference method and its application for anisotropic plasticity and distortional hardening under associated and non-associated flow rules. Computer Methods in Applied Mechanics and Engineering, 2019, 345, 123-160.	3.4	41
61	A new approach for fracture prediction considering general anisotropy of metal sheets. International Journal of Plasticity, 2020, 124, 199-225.	4.1	40
62	Analytical description of an asymmetric yield function (Yoon2014) by considering anisotropic hardening under non-associated flow rule. International Journal of Plasticity, 2021, 140, 102978.	4.1	39
63	Ideal sheet forming with frictional constraints. International Journal of Plasticity, 2000, 16, 595-610.	4.1	38
64	Buckling analysis for an integrally stiffened panel structure with a friction stir weld. Thin-Walled Structures, 2009, 47, 1608-1622.	2.7	38
65	A novel approach for anisotropic hardening modeling. Part II: Anisotropic hardening in proportional and non-proportional loadings, application to initially isotropic material. International Journal of Plasticity, 2010, 26, 1029-1049.	4.1	38
66	Mechanical behavior of an asymmetrically rolled and annealed 1050-O sheet. International Journal of Mechanical Sciences, 2008, 50, 1372-1380.	3.6	37
67	Wrinkling initiation and growth in modified Yoshida buckling test: Finite element analysis and experimental comparison. International Journal of Mechanical Sciences, 2000, 42, 1683-1714.	3.6	36
68	Alternative approach to model ductile fracture by incorporating anisotropic yield function. International Journal of Solids and Structures, 2019, 164, 12-24.	1.3	36
69	Kinematic hardening model considering directional hardening response. International Journal of Plasticity, 2018, 110, 145-165.	4.1	35
70	Investigation into wrinkling behavior in the elliptical cup deep drawing process by finite element analysis using bifurcation theory. Journal of Materials Processing Technology, 2001, 111, 170-174.	3.1	28
71	Investigation into the wrinkling behaviour of thin sheets in the cylindrical cup deep drawing process using bifurcation theory. International Journal for Numerical Methods in Engineering, 2003, 56, 1673-1705.	1.5	28
72	Microstructural evolution and its effect on mechanical properties of commercially pure aluminum deformed by ECAE (Equal Channel Angular Extrusion) via routes A and C. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 7927-7930.	2.6	26

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73	Analytical determination of anisotropic parameters for Poly6 yield function. International Journal of Mechanical Sciences, 2021, 201, 106467.	3.6	26
74	Effect of Anisotropic Yield Functions on the Accuracy of Hole Expansion Simulations for 590 MPa Grade Steel Sheet. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2010, 96, 557-563.	0.1	25
75	On the elasto-plastic buckling of Integrally Stiffened Panels (ISP) joined by Friction Stir Welding (FSW): Numerical simulation and optimization algorithms. International Journal of Mechanical Sciences, 2013, 76, 49-59.	3.6	25
76	A non-associated plasticity model with anisotropic and nonlinear kinematic hardening for simulation of sheet metal forming. International Journal of Solids and Structures, 2015, 69-70, 370-382.	1.3	25
77	Influence of initial back stress on the earing prediction of drawn cups for planar anisotropic aluminum sheets. Journal of Materials Processing Technology, 1998, 80-81, 433-437.	3.1	24
78	Numerical modeling and analysis for forming process of dual-phase 980 steel exposed to infrared local heating. International Journal of Solids and Structures, 2015, 75-76, 211-224.	1.3	24
79	Prediction of failure in bending of an aluminium sheet alloy. International Journal of Mechanical Sciences, 2016, 119, 23-35.	3.6	23
80	A new strategy to describe nonlinear elastic and asymmetric plastic behaviors with one yield surface. International Journal of Plasticity, 2017, 98, 217-238.	4.1	23
81	Investigation of microstructure characteristics of commercially pure aluminum during equal channel angular extrusion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 485, 621-626.	2.6	22
82	A reduced Yld2004 function for modeling of anisotropic plastic deformation of metals under triaxial loading. International Journal of Mechanical Sciences, 2019, 161-162, 105027.	3.6	22
83	Incorporation of Sheet-Forming Effects in Crash Simulations Using Ideal Forming Theory and Hybrid Membrane and Shell Method. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2005, 127, 182-192.	1.3	20
84	Enhanced one-point quadrature shell element for nonlinear applications. International Journal for Numerical Methods in Engineering, 2007, 69, 627-663.	1.5	20
85	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. International Journal of Solids and Structures, 2018, 151, 195-213.	1.3	20
86	A stress integration algorithm for plane stress elastoplasticity and its applications to explicit finite element analysis of sheet metal forming processes. Computers and Structures, 1998, 66, 301-311.	2.4	19
87	Modeling of anisotropic plastic behavior of ferritic stainless steel sheet. International Journal of Mechanical Sciences, 2009, 51, 718-725.	3.6	18
88	Anisotropic Behavior in Plasticity and Ductile Fracture of an Aluminum Alloy. Key Engineering Materials, 0, 651-653, 163-168.	0.4	18
89	Anisotropic distortional hardening based on deviatoric stress invariants under non-associated flow rule. International Journal of Plasticity, 2022, 151, 103214.	4.1	18
90	One point quadrature shell elements for sheet metal forming analysis. Archives of Computational Methods in Engineering, 2005, 12, 3-66.	6.0	17

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91	A user-friendly anisotropic ductile fracture criterion for sheet metal under proportional loading. International Journal of Solids and Structures, 2021, 217-218, 48-59.	1.3	17
92	A new asymmetric yield criterion based on Yld 2000-2d under both associated and non-associated flow rules: Modeling and validation. Mechanics of Materials, 2022, 167, 104245.	1.7	17
93	One point quadrature shell elements: a study on convergence and patch tests. Computational Mechanics, 2007, 40, 871-883.	2.2	16
94	Puncture fracture in an aluminum beverage can. International Journal of Impact Engineering, 2010, 37, 150-160.	2.4	16
95	Benchmark 3 - Incremental sheet forming. AIP Conference Proceedings, 2013, , .	0.3	16
96	Sheet Metal Forming Simulation for Aluminum Alloy Sheets. , 0, , .		13
97	Modeling of aluminum alloy sheets based on new anisotropic yield functions. Journal of Materials Processing Technology, 2006, 177, 134-137.	3.1	13
98	Elasto-plastic buckling of integrally stiffened panels (ISP): An optimization approach for the design of cross-section profiles. Thin-Walled Structures, 2011, 49, 864-873.	2.7	13
99	An Experimental Study of Square Aluminium Tubes with Honeycomb Core Subjected to Quasi-Static Compressive Loads. Key Engineering Materials, 0, 626, 91-96.	0.4	13
100	A manufacturing process using the infrared ray local heating method for seat cross members. International Journal of Advanced Manufacturing Technology, 2017, 89, 3299-3305.	1.5	13
101	Study on springback from thermal-mechanical boundary condition imposed to V-bending and L-bending processes coupled with infrared rays local heating. International Journal of Material Forming, 2018, 11, 417-433.	0.9	13
102	Stress based prediction of formability and failure in incremental sheet forming. International Journal of Material Forming, 2016, 9, 413-421.	0.9	12
103	Prediction of ballooning and burst for nuclear fuel cladding with anisotropic creep modeling during Loss of Coolant Accident (LOCA). Nuclear Engineering and Technology, 2021, 53, 3379-3397.	1.1	12
104	Hole expansion simulation of high strength steel sheet. International Journal of Material Forming, 2010, 3, 259-262.	0.9	11
105	Material characterizations for Benchmark 1 and Benchmark 2. , 2013, , .		11
106	Benchmark 3 - Springback of an Al-Mg alloy in warm forming conditions. Journal of Physics: Conference Series, 2016, 734, 022003.	0.3	11
107	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. International Journal of Mechanical Sciences, 2020, 187, 105913.	3.6	11
108	Characterizations of Aluminum Alloy Sheet Materials Numisheet 2005. AIP Conference Proceedings, 2005, , .	0.3	10

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109	Design optimization of extruded preform for hydroforming processes based on ideal forming design theory. International Journal of Mechanical Sciences, 2006, 48, 1416-1428.	3.6	10
110	Earing Prediction in Cup Drawing Based on Non-Associated Flow Rule. AIP Conference Proceedings, 2007, , .	0.3	10
111	Interplay between plastic deformations and optical properties of metal surfaces: A multiscale study. Applied Physics Letters, 2009, 95, .	1.5	10
112	Simulation of earing behaviors in bake hardening steel exhibiting a strong off- $\hat{\beta}$ -fiber component. International Journal of Solids and Structures, 2012, 49, 3573-3581.	1.3	10
113	Path-independent forming limit models for multi-stage forming processes. International Journal of Material Forming, 2016, 9, 327-337.	0.9	10
114	Comparative investigation into the dynamic explicit and the static implicit method for springback of sheet metal stamping. Engineering Computations, 1999, 16, 347-373.	0.7	9
115	Robust characterization of anisotropic shear fracture strains with constant triaxiality using shape optimization of torsional twin bridge specimen. CIRP Annals - Manufacturing Technology, 2021, 70, 211-214.	1.7	9
116	Artificial intelligence for springback compensation with electric vehicle motor component. International Journal of Material Forming, 2022, 15, 1.	0.9	9
117	Finite-element analysis and design of binder wraps for automobile sheet metal parts using surface boundary condition. Journal of Materials Engineering and Performance, 1995, 4, 593-598.	1.2	8
118	Applications of a Recently Proposed Anisotropic Yield Function to Sheet Forming. , 2007, , 131-149.		8
119	Study on Yield Function and Plastic Potential Under Non-Associated Flow for Accurate Earing Prediction in Cup Drawing. Steel Research International, 2015, 86, 852-860.	1.0	8
120	Development of MERCURY for simulation of multidimensional fuel behavior for LOCA condition. Nuclear Engineering and Design, 2020, 369, 110853.	0.8	8
121	Effect of asymmetrical rolling and annealing the mechanical response of an 1050-o sheet. International Journal of Material Forming, 2009, 2, 891-894.	0.9	7
122	Mechanical properties and microstructure of AA1050 after ECAE (Equal Channel Angular Extrusion). , 2010, , .		7
123	Modeling of Directional Hardening Based on Non-Associated Flow for Sheet Forming. , 2010, , .		7
124	Gripless nanotension test for determination of nano-scale properties. International Journal of Plasticity, 2011, 27, 1527-1536.	4.1	7
125	Analytical Approach to Predict Anisotropic Material Properties from Cup Drawings. International Journal of Material Forming, 2008, 1, 301-304.	0.9	6
126	Paradigm Change: Alternate Approaches to Constitutive and Necking Models for Sheet Metal Forming. AIP Conference Proceedings, 2011, , .	0.3	6



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127	Bifurcation Instability of sheet metal during spring-back. Philosophical Magazine, 2013, 93, 1914-1935.	0.7	6
128	On the influence of fsw in the elastoplastic buckling load-carrying capacity of extruded integrally stiffened panels for aeronautic applications. International Journal of Material Forming, 2010, 3, 1019-1022.	0.9	5
129	Subspace analysis to alleviate the volumetric locking in the 3D solid-shell EFG method. Journal of Computational and Applied Mathematics, 2013, 246, 185-194.	1.1	5
130	J2 - J3 based anisotropic yield function under spatial loading. Procedia Engineering, 2017, 207, 233-238.	1.2	5
131	On the efficiency and accuracy of stress integration algorithms for constitutive models based on non-associated flow rule. International Journal of Material Forming, 2018, 11, 239-246.	0.9	5
132	Enhanced Constitutive Model for Aeronautic Aluminium Alloy (AA2024-T351) under High Strain Rates and Elevated Temperatures. International Journal of Automotive Technology, 2019, 20, 79-87.	0.7	5
133	Yield and strain rate potentials for aluminum alloy sheet forming design. Metals and Materials International, 1998, 4, 931-938.	0.2	4
134	Crash Simulations Considering Sheet Forming Effects Based on Ideal Forming Theory and Hybrid Membrane/Shell Method. AIP Conference Proceedings, 2004, , .	0.3	4
135	Strain-rate potential based elastic/plastic anisotropic model for metals displaying tensionâ€compression asymmetry. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 1993-2004.	3.4	4
136	Benchmark 4 - Wrinkling during cup drawing. , 2013, , .		4
137	Modeling the Effect of Asymmetric Rolling on Mechanical Properties of Alâ€Mg Alloys. Steel Research International, 2015, 86, 922-931.	1.0	4
138	Earing prediction of AA 2008-T4 with anisotropic Drucker yield function based on the second and third stress invariants. Journal of Physics: Conference Series, 2018, 1063, 012113.	0.3	4
139	A Springback Prediction of 1.5 GPa Grade Steel in Roll Forming Process for Automotive Sill-Side Inner Component. Key Engineering Materials, 2019, 794, 267-274.	0.4	4
140	On Using Homogeneous Polynomials To Design Anisotropic Yield Functions With Tension/Compression Symmetry/Assymetry. AIP Conference Proceedings, 2007, , .	0.3	3
141	A novel approach for modeling of anisotropic hardening and non proportional loading paths, application to finite element analysis of deep drawing. International Journal of Material Forming, 2009, 2, 367-370.	0.9	3
142	Comparsion of forming and fracture limits of an aluminum alloy and austenitic stainless steel. International Journal of Material Forming, 2009, 2, 431-434.	0.9	3
143	Wrinkling during Cup Drawing with NUMISHEET2014 Benchmark Test. Steel Research International, 2015, 86, 915-921.	1.0	3
144	Shape optimization of shear fracture specimen considering plastic anisotropy. AIP Conference Proceedings, 2017, , .	0.3	3

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145	Finite Element formulation of a general asymmetrical yield function for pressure sensitive metals. <i>Procedia Engineering</i> , 2017, 207, 215-220.	1.2	3
146	Evolution of residual stress distortion of a machined product for AA7085. <i>Production Engineering</i> , 2019, 13, 123-131.	1.1	3
147	Direct Design Method Based on Ideal Forming Theory for Hydroforming and Flanging Processes. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	2
148	Effect of Asymmetric Rolling on Plastic Anisotropy of Low Carbon Steels during Simple Shear Tests. , 2010, , .		2
149	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.	0.9	2
150	Analysis of the Necking Behaviors with the Crystal Plasticity Model Using 3-Dimensional Shaped Grains. <i>Advanced Materials Research</i> , 0, 684, 357-361.	0.3	2
151	Anisotropic hardening model based on non-associated flow rule and combined nonlinear kinematic hardening for sheet materials. <i>AIP Conference Proceedings</i> , 2013, , .	0.3	2
152	Modeling of shear ductile fracture considering a changeable cut-off value for stress triaxiality. <i>AIP Conference Proceedings</i> , 2013, , .	0.3	2
153	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	2
154	Assessment of Newly Developed Ductile Fracture Criteria for Lightweight Metals. <i>Key Engineering Materials</i> , 0, 794, 42-47.	0.4	2
155	Finite element modeling and durability evaluation for rubber pad forming process. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 651, 012096.	0.3	2
156	Finite Element Modeling for Orthogonal Machining of AA2024-T351 Alloy With an Advanced Fracture Criterion. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2021, 143, .	1.3	2
157	Holistic design and simulation system in sheet metal forming processes. <i>Metals and Materials International</i> , 1998, 4, 715-722.	0.2	1
158	Development of a One Point Quadrature EAS Solid-Shell Element. <i>AIP Conference Proceedings</i> , 2004, , .	0.3	1
159	A Review of the Relationship Between Microstructural Features and the Stress-Strain Behavior of Metals. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2005, 36, 572-577.	0.5	1
160	Convolute Cut-Edge Design for an Earless Cup in Cup Drawing. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	1
161	One point quadrature shell element with through-thickness stretch. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	1
162	Material Models to Study the Bauschinger Effect on an Aluminum Shear Test Specimen. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	1

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163	Convolute Cut-Edge Design for a Circular Cup Based on FEM and an Analytical Approach. AIP Conference Proceedings, 2007, , .	0.3	1
164	A new axi-symmetric element for thin walled structures. Computational Mechanics, 2010, 45, 281-296.	2.2	1
165	A Polycrystal Model to Evaluate Mechanical Properties of Asymmetrically Rolled AL Sheets. International Journal of Material Forming, 2010, 3, 61-64.	0.9	1
166	New Anisotropic Strain-rate Potential for Hexagonal Metals. International Journal of Material Forming, 2010, 3, 227-230.	0.9	1
167	Genetic alterations of the CHOP gene in gastric cancers. Molecular and Cellular Toxicology, 2011, 7, 1-6.	0.8	1
168	Stress-based predictions of formability and failure in incremental sheet forming. AIP Conference Proceedings, 2013, , .	0.3	1
169	Modified Mohr-Coulomb fracture model for anisotropic sheet materials under limited triaxial stress conditions. , 2013, , .		1
170	Stress-Based Forming Limit Curves. , 2014, , 71-84.		1
171	A shear ductile fracture criterion for metal forming. Journal of Physics: Conference Series, 2016, 734, 032137.	0.3	1
172	Linear transformation based orthotropic shear ductile fracture criterion for lightweight metals. AIP Conference Proceedings, 2017, , .	0.3	1
173	Orthotropic ductile fracture criterion based on linear transformation. Journal of Physics: Conference Series, 2017, 896, 012110.	0.3	1
174	Extension of the DF2016 isotropic model into an anisotropic ductile fracture criterion. Journal of Physics: Conference Series, 2018, 1063, 012148.	0.3	1
175	Material characterization and fracture prediction with advanced constitutive model and Polar EPS fracture diagram for AA 3104-H19. Journal of Physics: Conference Series, 2018, 1063, 012156.	0.3	1
176	Stress update algorithm based on finite difference method and its application to homogenous anisotropic hardening (HAH) model. Journal of Physics: Conference Series, 2018, 1063, 012011.	0.3	1
177	Reduced texture approach for crystal plasticity finite element method toward macroscopic engineering applications. IOP Conference Series: Materials Science and Engineering, 2020, 967, 012071.	0.3	1
178	Path Independent Polar Effective Plastic Strain (PEPS) Diagram for Sheet Forming. , 2012, , 723-730.		1
179	Development of Ultrafine-Grained Aluminum Tubes Using Severe Plastic Deformation Process. Transactions of the Korean Society of Mechanical Engineers, A, 2009, 33, 1087-1090.	0.1	1
180	Microstructure-Based Constitutive Modeling for the Analysis and Design of Aluminium Sheet Forming Processes. Key Engineering Materials, 2002, 230-232, 497-500.	0.4	0

#	ARTICLE	IF	CITATIONS
181	Texture, Microstructure and Forming of Aluminium Alloy Sheets. Materials Science Forum, 2003, 426-432, 99-106.	0.3	0
182	Sheet Metal Formability Analysis for Anisotropic Materials. AIP Conference Proceedings, 2004, , .	0.3	0
183	A general purpose one point quadrature shell element based on resultant-stress. AIP Conference Proceedings, 2004, , .	0.3	0
184	Development of a One-Point Quadrature EAS Solid-Shell Element for Sheet Forming. AIP Conference Proceedings, 2005, , .	0.3	0
185	Convolute Cut-Edge Design with a New Anisotropic Yield Function for Earless Target Cup in a Circular Cup Drawing. Materials Science Forum, 2006, 505-507, 1297-1302.	0.3	0
186	Compressive Instability Phenomena During Springback. AIP Conference Proceedings, 2007, , .	0.3	0
187	An overview of sheet metal forming simulations with enhanced assumed strain elements. AIP Conference Proceedings, 2007, , .	0.3	0
188	A New Axi-Symmetric Element for Thin Walled Structures. , 2010, , .		0
189	Cup-Drawing Behavior of High-Strength Steel Sheets Containing Different Volume Fractions of Martensite. , 2010, , .		0
190	Effect of Off- $\hat{\beta}$ -fiber Texture Components on R-value Anisotropy and Cup-Drawing Behavior in High-Strength Steel Sheets. , 2011, , .		0
191	In honor of Akhtar S. Khan. International Journal of Plasticity, 2011, 27, 1457-1458.	4.1	0
192	New distortional hardening model capable of predicting eight ears for textured aluminum sheet. , 2011, , .		0
193	Editorial: In honor of Robert H. Wagoner. International Journal of Plasticity, 2013, 45, 1-2.	4.1	0
194	Prediction of FLD of sheet metals based on crystal plasticity model. , 2013, , .		0
195	A Comparison of EFGM and FEM for Nonlinear Solid Mechanics Problems. Key Engineering Materials, 0, 535-536, 434-437.	0.4	0
196	Variation of yield loci in finite element analysis by considering texture evolution for AA5042 aluminum sheets. , 2013, , .		0
197	In honor of Kwansoo Chung. International Journal of Plasticity, 2014, 58, 1-2.	4.1	0
198	Editorial: NUMISHEET2014 Special Issue. Steel Research International, 2015, 86, 851-851.	1.0	0

#	ARTICLE	IF	CITATIONS
199	Advances in Constitutive and Failure Models for Sheet Forming Simulation. Journal of Physics: Conference Series, 2016, 734, 032145.	0.3	0
200	Bending Behavior to Fracture of an Aluminium Alloy Involving Pre-Strain. Key Engineering Materials, 0, 725, 495-501.	0.4	0
201	A comparison of deformation and failure behaviors of AZ31 and E-form Mg alloys under V-bending test. Journal of Physics: Conference Series, 2016, 734, 032141.	0.3	0
202	Prediction of the bending behavior after pre-strain of an aluminum alloy. AIP Conference Proceedings, 2016, , .	0.3	0
203	Fracture prediction using modified mohr coulomb theory for non-linear strain paths using AA3104-H19. Journal of Physics: Conference Series, 2016, 734, 032116.	0.3	0
204	Safe, flexible and efficient sheet metal forming: formability - fracture, incremental sheet forming & rolling. International Journal of Material Forming, 2016, 9, 259-260.	0.9	0
205	Constitutive modeling and FE implementation for anisotropic hardening under proportional loading conditions. Journal of Physics: Conference Series, 2018, 1063, 012025.	0.3	0
206	Scratch Modeling of Paint Coated Sheet Metal for Multi-Stage Deep Drawing Process. IOP Conference Series: Materials Science and Engineering, 2018, 418, 012100.	0.3	0
207	FE implementation of HAH model using FDM-based stress update algorithm for springback prediction of AHSS sheets. Journal of Physics: Conference Series, 2018, 1063, 012021.	0.3	0
208	Rupture model based on non-associated plasticity. AIP Conference Proceedings, 2018, , .	0.3	0
209	AEPA2018 Special Issue: Recent Issues for Metal Forming Research. International Journal of Automotive Technology, 2019, 20, 1-1.	0.7	0
210	A Stress-Based Model for Shear Ductile Fracture. Key Engineering Materials, 0, 794, 3-8.	0.4	0
211	Dynamic Axial Compression of Square CFRP/Aluminium Tubes. Key Engineering Materials, 2019, 794, 202-207.	0.4	0
212	A new approach for advanced plasticity and fracture modelling. IOP Conference Series: Materials Science and Engineering, 2019, 651, 012097.	0.3	0
213	The roles of yield function and plastic potential under non-associated flow rule for formability prediction with perturbation approach. IOP Conference Series: Materials Science and Engineering, 2020, 967, 012027.	0.3	0
214	A pressure-coupled Drucker function for plasticity and fracture modelling of AA5182. IOP Conference Series: Materials Science and Engineering, 2020, 967, 012029.	0.3	0
215	Machinability studies of AA2024-T351 alloy with uncoated carbide tool. Materials Today: Proceedings, 2021, 44, 1058-1064.	0.9	0
216	Superconducting MgB2 Wire Drawing Considering Anisotropic Hardening Behavior and Hydrostatic Effect. Metals and Materials International, 0, , 1.	1.8	0

#	ARTICLE	IF	CITATIONS
217	Modeling of the Anisotropic Evolution of Yield Surface Based on Non-associated Flow Rule. Minerals, Metals and Materials Series, 2022, , 355-364.	0.3	0