Jeong Whan Yoon

List of Publications by Year in Descending Order

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	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	3.3	4
187	Anisotropic distortional hardening based on deviatoric stress invariants under non-associated flow rule. *International Journal of Plasticity*, **2022**, 151, 103214	7.6	2
186	Artificial intelligence for springback compensation with electric vehicle motor component. *International Journal of Material Forming*, **2022**, 15, 1	2	0
185	Modeling of the Anisotropic Evolution of Yield Surface Based on Non-associated Flow Rule. *Minerals, Metals and Materials Series*, **2022**, 355-364	0.3	
184	A user-friendly anisotropic ductile fracture criterion for sheet metal under proportional loading. *International Journal of Solids and Structures*, **2021**, 217-218, 48-59	3.1	3
183	Analytical description of an asymmetric yield function (Yoon2014) by considering anisotropic hardening under non-associated flow rule. *International Journal of Plasticity*, **2021**, 140, 102978	7.6	9
182	Machine learning-based constitutive model for J2- plasticity. *International Journal of Plasticity*, **2021** , 138, 102919	7.6	7
181	A coupled yield criterion for anisotropic hardening with analytical description under associated flow rule: Modeling and validation. *International Journal of Plasticity*, **2021**, 136, 102882	7.6	14
180	Machinability studies of AA2024-T351 alloy with uncoated carbide tool. *Materials Today: Proceedings*, **2021**, 44, 1058-1064	1.4	
179	Analytical determination of anisotropic parameters for Poly6 yield function. *International Journal of Mechanical Sciences*, **2021**, 201, 106467	5.5	5
178	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	2.6	1
177	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	4.9	3
176	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	0.4	
175	Reduced texture approach for crystal plasticity finite element method toward macroscopic engineering applications. *IOP Conference Series: Materials Science and Engineering*, **2020**, 967, 012071	0.4	0
174	Development of MERCURY for simulation of multidimensional fuel behavior for LOCA condition. *Nuclear Engineering and Design*, **2020**, 369, 110853	1.8	4
173	A pressure-coupled Drucker function for plasticity and fracture modelling of AA5182. *IOP Conference Series: Materials Science and Engineering*, **2020**, 967, 012029	0.4	
172	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	5.5	5

171	Strength modeling of sheet metals from shear to plane strain tension. *International Journal of Plasticity*, **2020**, 134, 102813	7.6	14
170	A new approach for fracture prediction considering general anisotropy of metal sheets. *International Journal of Plasticity*, **2020**, 124, 199-225	7.6	19
169	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	3
168	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	7.6	33
167	A Stress-Based Model for Shear Ductile Fracture. *Key Engineering Materials*, **2019**, 794, 3-8	0.4	
166	Assessment of Newly Developed Ductile Fracture Criteria for Lightweight Metals. *Key Engineering Materials*, **2019**, 794, 42-47	0.4	2
165	Dynamic Axial Compression of Square CFRP/Aluminium Tubes. *Key Engineering Materials*, **2019**, 794, 202-207	0.4	
164	Evolution of residual stress distortion of a machined product for AA7085. *Production Engineering*, **2019**, 13, 123-131	1.9	2
163	Combined anisotropic and distortion hardening to describe directional response with Bauschinger effect. *International Journal of Plasticity*, **2019**, 122, 73-88	7.6	23
162	A reduced Yld2004 function for modeling of anisotropic plastic deformation of metals under triaxial loading. *International Journal of Mechanical Sciences*, **2019**, 161-162, 105027	5.5	13
161	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	1.6	4
160	A new approach for advanced plasticity and fracture modelling. *IOP Conference Series: Materials Science and Engineering*, **2019**, 651, 012097	0.4	
159	Finite element modeling and durability evaluation for rubber pad forming process. *IOP Conference Series: Materials Science and Engineering*, **2019**, 651, 012096	0.4	
158	Alternative approach to model ductile fracture by incorporating anisotropic yield function. *International Journal of Solids and Structures*, **2019**, 164, 12-24	3.1	18
157	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	5.7	25
156	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	2	10
155	Correlation of the maximum shear stress with micro-mechanisms of ductile fracture for metals with high strength-to-weight ratio. *International Journal of Mechanical Sciences*, **2018**, 146-147, 583-601	5.5	36
154	Anisotropic fracture forming limit diagram considering non-directionality of the equi-biaxial fracture strain. *International Journal of Solids and Structures*, **2018**, 151, 181-194	3.1	29

153	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	3.1	13
152	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	2	4
151	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	7.6	85
150	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
149	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	
148	Constitutive modeling and FE implementation for anisotropic hardening under proportional loading conditions. *Journal of Physics: Conference Series*, **2018**, 1063, 012025	0.3	
147	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	2
146	Extension of the DF2016 isotropic model into an anisotropic ductile fracture criterion. *Journal of Physics: Conference Series*, **2018**, 1063, 012148	0.3	
145	Scratch Modeling of Paint Coated Sheet Metal for Multi-Stage Deep Drawing Process. *IOP Conference Series: Materials Science and Engineering*, **2018**, 418, 012100	0.4	
144	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	
143	Kinematic hardening model considering directional hardening response. *International Journal of Plasticity*, **2018**, 110, 145-165	7.6	27
142	Modeling of ductile fracture from shear to balanced biaxial tension for sheet metals. *International Journal of Solids and Structures*, **2017**, 112, 169-184	3.1	114
141	Anisotropic ductile fracture criterion based on linear transformation. *International Journal of Plasticity*, **2017**, 93, 3-25	7.6	65
140	Prediction of fracture initiation in square cup drawing of DP980 using an anisotropic ductile fracture criterion. *Journal of Physics: Conference Series*, **2017**, 896, 012111	0.3	0
139	Shape optimization of shear fracture specimen considering plastic anisotropy **2017**,		2
138	Linear transformation based orthotropic shear ductile fracture criterion for lightweight metals **2017**,		1
137	A new strategy to describe nonlinear elastic and asymmetric plastic behaviors with one yield surface. *International Journal of Plasticity*, **2017**, 98, 217-238	7.6	16
136	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	7.6	62

135	Orthotropic ductile fracture criterion based on linear transformation. *Journal of Physics: Conference Series*, **2017**, 896, 012110	0.3	1
134	Crushing response of square aluminium tubes filled with polyurethane foam and aluminium honeycomb. *Thin-Walled Structures*, **2017**, 110, 140-154	4.7	86
133	A manufacturing process using the infrared ray local heating method for seat cross members. *International Journal of Advanced Manufacturing Technology*, **2017**, 89, 3299-3305	3.2	13
132	Finite Element formulation of a general asymmetrical yield function for pressure sensitive metals. *Procedia Engineering*, **2017**, 207, 215-220		2
131	J2 - J3 based anisotropic yield function under spatial loading. *Procedia Engineering*, **2017**, 207, 233-238		2
130	Stress based prediction of formability and failure in incremental sheet forming. *International Journal of Material Forming*, **2016**, 9, 413-421	2	10
129	Path-independent forming limit models for multi-stage forming processes. *International Journal of Material Forming*, **2016**, 9, 327-337	2	10
128	Bending Behavior to Fracture of an Aluminium Alloy Involving Pre-Strain. *Key Engineering Materials*, **2016**, 725, 495-501	0.4	
127	Benchmark 3 - Springback of an Al-Mg alloy in warm forming conditions. *Journal of Physics: Conference Series*, **2016**, 734, 022003	0.3	9
126	A shear ductile fracture criterion for metal forming. *Journal of Physics: Conference Series*, **2016**, 734, 032137	0.3	1
125	Prediction of failure in bending of an aluminium sheet alloy. *International Journal of Mechanical Sciences*, **2016**, 119, 23-35	5.5	17
124	Necking behavior of AA 6022-T4 based on the crystal plasticity and damage models. *International Journal of Plasticity*, **2015**, 73, 3-23	7.6	38
123	Anisotropic Behavior in Plasticity and Ductile Fracture of an Aluminum Alloy. *Key Engineering Materials*, **2015**, 651-653, 163-168	0.4	13
122	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	3.1	19
121	Strain rate effect of high purity aluminum single crystals: Experiments and simulations. *International Journal of Plasticity*, **2015**, 67, 39-52	7.6	60
120	Modeling the Effect of Asymmetric Rolling on Mechanical Properties of Al-Mg Alloys. *Steel Research International*, **2015**, 86, 922-931	1.6	2
119	Wrinkling during Cup Drawing with NUMISHEET2014 Benchmark Test. *Steel Research International*, **2015**, 86, 915-921	1.6	2
118	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	1.6	6

117	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	3.1	20
116	Modeling of shear ductile fracture considering a changeable cut-off value for stress triaxiality. *International Journal of Plasticity*, **2014**, 54, 56-80	7.6	219
115	Kinematics of Portevin□le Chatelier bands in simple shear. *International Journal of Plasticity*, **2014**, 58, 66-83	7.6	36
114	Study on the definition of equivalent plastic strain under non-associated flow rule for finite element formulation. *International Journal of Plasticity*, **2014**, 58, 219-238	7.6	46
113	Asymmetric yield function based on the stress invariants for pressure sensitive metals. *International Journal of Plasticity*, **2014**, 56, 184-202	7.6	137
112	Suppression of necking in incremental sheet forming. *International Journal of Solids and Structures*, **2014**, 51, 2840-2849	3.1	42
111	Stress-Based Forming Limit Curves **2014**, 71-84		1
110	An Experimental Study of Square Aluminium Tubes with Honeycomb Core Subjected to Quasi-Static Compressive Loads. *Key Engineering Materials*, **2014**, 626, 91-96	0.4	12
109	In honor of Kwansoo Chung. *International Journal of Plasticity*, **2014**, 58, 1-2	7.6	
108	Failure prediction in the hole-flanging process of aluminium alloys. *Engineering Fracture Mechanics*, **2013**, 99, 251-265	4.2	37
107	Subspace analysis to alleviate the volumetric locking in the 3D solid-shell EFG method. *Journal of Computational and Applied Mathematics*, **2013**, 246, 185-194	2.4	5
106	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	5.5	20
105	Consideration of strength differential effect in sheet metals with symmetric yield functions. *International Journal of Mechanical Sciences*, **2013**, 66, 214-223	5.5	45
104	Benchmark 4 - Wrinkling during cup drawing **2013**,		2
103	Material characterizations for Benchmark 1 and Benchmark 2 **2013**,		5
102	Benchmark 3 - Incremental sheet forming **2013**,		12
101	Analysis of the Necking Behaviors with the Crystal Plasticity Model Using 3-Dimensional Shaped Grains. *Advanced Materials Research*, **2013**, 684, 357-361	0.5	2
100	A Comparison of EFGM and FEM for Nonlinear Solid Mechanics Problems. *Key Engineering Materials*, **2013**, 535-536, 434-437	0.4	

99	Bifurcation Instability of sheet metal during spring-back. *Philosophical Magazine*, **2013**, 93, 1914-1935	1.6	5
98	Anisotropic hardening model based on non-associated flow rule and combined nonlinear kinematic hardening for sheet materials **2013**,		1
97	Modified Mohr-Coulomb fracture model for anisotropic sheet materials under limited triaxial stress conditions **2013**,		1
96	Simulation of earing behaviors in bake hardening steel exhibiting a strong off-Fiber component. *International Journal of Solids and Structures*, **2012**, 49, 3573-3581	3.1	8
95	Biaxial deformation behaviour of AZ31 magnesium alloy: Crystal-plasticity-based prediction and experimental validation. *International Journal of Solids and Structures*, **2012**, 49, 3551-3561	3.1	57
94	Path independent forming limits in strain and stress spaces. *International Journal of Solids and Structures*, **2012**, 49, 3616-3625	3.1	94
93	Path Independent Polar Effective Plastic Strain (PEPS) Diagram for Sheet Forming **2012**, 723-730		1
92	Gripless nanotension test for determination of nano-scale properties. *International Journal of Plasticity*, **2011**, 27, 1527-1536	7.6	7
91	Evaluation of advanced anisotropic models with mixed hardening for general associated and non-associated flow metal plasticity. *International Journal of Plasticity*, **2011**, 27, 1781-1802	7.6	51
90	Genetic alterations of the CHOP gene in gastric cancers. *Molecular and Cellular Toxicology*, **2011**, 7, 1-6	1.6	1
89	Strain-rate potential based elastic/plastic anisotropic model for metals displaying tension-compression asymmetry. *Computer Methods in Applied Mechanics and Engineering*, **2011**, 200, 1993-2004	5.7	3
88	A new approach for failure criterion for sheet metals. *International Journal of Plasticity*, **2011**, 27, 440-459	7.6	151
87	A new analytical theory for earing generated from anisotropic plasticity. *International Journal of Plasticity*, **2011**, 27, 1165-1184	7.6	61
86	Effect of anisotropic yield functions on the accuracy of hole expansion simulations. *Journal of Materials Processing Technology*, **2011**, 211, 475-481	5.3	90
85	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	4.7	12
84	Paradigm Change: Alternate Approaches to Constitutive and Necking Models for Sheet Metal Forming **2011**,		6
83	Phospholipase D1 drives a positive feedback loop to reinforce the Wnt/beta-catenin/TCF signaling axis. *Cancer Research*, **2010**, 70, 4233-42	10.1	35
82	Effect of Asymmetric Rolling on Plastic Anisotropy of Low Carbon Steels during Simple Shear Tests **2010**,		2

81	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	0.5	23
80	Puncture fracture in an aluminum beverage can. *International Journal of Impact Engineering*, **2010**, 37, 150-160	4	13
79	A new axi-symmetric element for thin walled structures. *Computational Mechanics*, **2010**, 45, 281-296	4	1
78	On an Innovative Optimization Approach for the Design of Cross-section Profiles of Integrally Stiffened Panels Subjected to Elasto-plastic Buckling Deformation Modes. *International Journal of Material Forming*, **2010**, 3, 49-52	2	1
77	A Polycrystal Model to Evaluate Mechanical Properties of Asymmetrically Rolled AL Sheets. *International Journal of Material Forming*, **2010**, 3, 61-64	2	1
76	New Anisotropic Strain-rate Potential for Hexagonal Metals. *International Journal of Material Forming*, **2010**, 3, 227-230	2	1
75	Hole expansion simulation of high strength steel sheet. *International Journal of Material Forming*, **2010**, 3, 259-262	2	10
74	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	2	3
73	Earing predictions for strongly textured aluminum sheets. *International Journal of Mechanical Sciences*, **2010**, 52, 1563-1578	5.5	62
72	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	7.6	80
71	Orthotropic strain rate potential for the description of anisotropy in tension and compression of metals. *International Journal of Plasticity*, **2010**, 26, 887-904	7.6	51
70	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	7.6	30
69	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	5.3	24
68	Interplay between plastic deformations and optical properties of metal surfaces: A multiscale study. *Applied Physics Letters*, **2009**, 95, 084106	3.4	8
67	Buckling analysis for an integrally stiffened panel structure with a friction stir weld. *Thin-Walled Structures*, **2009**, 47, 1608-1622	4.7	30
66	Anisotropic hardening and non-associated flow in proportional loading of sheet metals. *International Journal of Plasticity*, **2009**, 25, 1777-1817	7.6	165
65	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	2	3
64	Comparsion of forming and fracture limits of an aluminum alloy and austenitic stainless steel. *International Journal of Material Forming*, **2009**, 2, 431-434	2	2

63	Effect of asymmetrical rolling and annealing the mechanical response of an 1050-o sheet. *International Journal of Material Forming*, **2009**, 2, 891-894	2	7
62	Stress integration method for a nonlinear kinematic/isotropic hardening model and its characterization based on polycrystal plasticity. *International Journal of Plasticity*, **2009**, 25, 1684-1710	7.6	44
61	A novel approach for anisotropic hardening modeling. Part I: Theory and its application to finite element analysis of deep drawing. *International Journal of Plasticity*, **2009**, 25, 2383-2409	7.6	48
60	Modeling of anisotropic plastic behavior of ferritic stainless steel sheet. *International Journal of Mechanical Sciences*, **2009**, 51, 718-725	5.5	15
59	Development of Ultrafine-Grained Aluminum Tubes Using Severe Plastic Deformation Process. *Transactions of the Korean Society of Mechanical Engineers, A*, **2009**, 33, 1087-1090	1	1
58	On the use of homogeneous polynomials to develop anisotropic yield functions with applications to sheet forming. *International Journal of Plasticity*, **2008**, 24, 915-944	7.6	81
57	Analytical Approach to Predict Anisotropic Material Properties from Cup Drawings. *International Journal of Material Forming*, **2008**, 1, 301-304	2	5
56	Enhanced assumed strain (EAS) and assumed natural strain (ANS) methods for one-point quadrature solid-shell elements. *International Journal for Numerical Methods in Engineering*, **2008**, 75, 156-187	2.4	124
55	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	5.3	20
54	Mechanical behavior of an asymmetrically rolled and annealed 1050-O sheet. *International Journal of Mechanical Sciences*, **2008**, 50, 1372-1380	5.5	32
53	On the existence of indeterminate solutions to the equations of motion under non-associated flow. *International Journal of Plasticity*, **2008**, 24, 583-613	7.6	37
52	Enhanced one-point quadrature shell element for nonlinear applications. *International Journal for Numerical Methods in Engineering*, **2007**, 69, 627-663	2.4	16
51	On the use of a reduced enhanced solid-shell (RESS) element for sheet forming simulations. *International Journal of Plasticity*, **2007**, 23, 490-515	7.6	69
50	On linear transformations of stress tensors for the description of plastic anisotropy. *International Journal of Plasticity*, **2007**, 23, 876-896	7.6	169
49	One point quadrature shell elements: a study on convergence and patch tests. *Computational Mechanics*, **2007**, 40, 871-883	4	14
48	Applications of a Recently Proposed Anisotropic Yield Function to Sheet Forming **2007**, 131-149		4
47	On Using Homogeneous Polynomials To Design Anisotropic Yield Functions With Tension/Compression Symmetry/Assymetry. *AIP Conference Proceedings*, **2007**,	0	3
46	Material Models to Study the Bauschinger Effect on an Aluminum Shear Test Specimen. *AIP Conference Proceedings*, **2007**,	0	1

45	Earing Prediction in Cup Drawing Based on Non-Associated Flow Rule. *AIP Conference Proceedings*, **2007**,	0	7
44	A new approach to reduce membrane and transverse shear locking for one-point quadrature shell elements: linear formulation. *International Journal for Numerical Methods in Engineering*, **2006**, 66, 214-249	2.4	39
43	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	2.4	80
42	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	0.4	
41	Review of Drucker's postulate and the issue of plastic stability in metal forming. *International Journal of Plasticity*, **2006**, 22, 391-433	7.6	66
40	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	7.6	225
39	Design optimization of extruded preform for hydroforming processes based on ideal forming design theory. *International Journal of Mechanical Sciences*, **2006**, 48, 1416-1428	5.5	8
38	Modeling of aluminum alloy sheets based on new anisotropic yield functions. *Journal of Materials Processing Technology*, **2006**, 177, 134-137	5.3	12
37	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	3.3	16
36	Sheet metal formability analysis for anisotropic materials under non-proportional loading. *International Journal of Mechanical Sciences*, **2005**, 47, 1972-2002	5.5	71
35	Linear transfomation-based anisotropic yield functions. *International Journal of Plasticity*, **2005**, 21, 1009-1039	7.6	650
34	One point quadrature shell element with through-thickness stretch. *Computer Methods in Applied Mechanics and Engineering*, **2005**, 194, 1161-1199	5.7	40
33	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	2.4	76
32	A Review of the Relationship Between Microstructural Features and the Stress-Strain Behavior of Metals. *Materialwissenschaft Und Werkstofftechnik*, **2005**, 36, 572-577	0.9	1
31	Anisotropic strain hardening behavior in simple shear for cube textured aluminum alloy sheets. *International Journal of Plasticity*, **2005**, 21, 2426-2447	7.6	65
30	One point quadrature shell elements for sheet metal forming analysis. *Archives of Computational Methods in Engineering*, **2005**, 12, 3-66	7.8	15
29	Characterizations of Aluminum Alloy Sheet Materials Numisheet 2005. *AIP Conference Proceedings*, **2005**,	0	10
28	Direct Design Method Based on Ideal Forming Theory for Hydroforming and Flanging Processes. *AIP Conference Proceedings*, **2005**,	0	2

27	Crash Simulations Considering Sheet Forming Effects Based on Ideal Forming Theory and Hybrid Membrane/Shell Method. *AIP Conference Proceedings*, **2004**,	0	4
26	A pressure-sensitive yield criterion under a non-associated flow rule for sheet metal forming. *International Journal of Plasticity*, **2004**, 20, 705-731	7.6	140
25	Plane stress yield function for aluminum alloy sheetsPart II: FE formulation and its implementation. *International Journal of Plasticity*, **2004**, 20, 495-522	7.6	212
24	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	2.4	24
23	Plane stress yield function for aluminum alloy sheetsPart 1: theory. *International Journal of Plasticity*, **2003**, 19, 1297-1319	7.6	1135
22	Texture, Microstructure and Forming of Aluminium Alloy Sheets. *Materials Science Forum*, **2003**, 426-432, 99-106	0.4	
21	Development of a one point quadrature shell element for nonlinear applications with contact and anisotropy. *Computer Methods in Applied Mechanics and Engineering*, **2002**, 191, 5177-5206	5.7	50
20	Springback prediction for sheet metal forming process using a 3D hybrid membrane/shell method. *International Journal of Mechanical Sciences*, **2002**, 44, 2133-2153	5.5	40
19	Microstructure-Based Constitutive Modeling for the Analysis and Design of Aluminium Sheet Forming Processes. *Key Engineering Materials*, **2002**, 230-232, 497-500	0.4	
18	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	5.3	26
17	Wrinkling initiation and growth in modified Yoshida buckling test: Finite element analysis and experimental comparison. *International Journal of Mechanical Sciences*, **2000**, 42, 1683-1714	5.5	34
16	The effect of plastic anisotropy on compressive instability in sheet metal forming. *International Journal of Plasticity*, **2000**, 16, 649-676	7.6	36
15	Ideal sheet forming with frictional constraints. *International Journal of Plasticity*, **2000**, 16, 595-610	7.6	31
14	Earing predictions based on asymmetric nonquadratic yield function. *International Journal of Plasticity*, **2000**, 16, 1075-1104	7.6	115
13	Sheet Metal Forming Simulation for Aluminum Alloy Sheets **2000**,		10
12	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	5.7	115
11	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	7.6	79
10	Optimum blank design in sheet metal forming by the deformation path iteration method. *International Journal of Mechanical Sciences*, **1999**, 41, 1217-1232	5.5	80

9	Comparative investigation into the dynamic explicit and the static implicit method for springback of sheet metal stamping. *Engineering Computations*, **1999**, 16, 347-373	1.4	7
8	Holistic design and simulation system in sheet metal forming processes. *Metals and Materials International*, **1998**, 4, 715-722		1
7	Yield and strain rate potentials for aluminum alloy sheet forming design. *Metals and Materials International*, **1998**, 4, 931-938		4
6	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	4.5	16
5	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	5.3	21
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