Frederic Barlat

List of Publications by Year
in descending order

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305 papers	17,184 citations	19636 61 h-index	17580 121 g-index
313 all docs	313 docs citations	313 times ranked	4106 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	Plastic behavior and stretchability of sheet metals. Part I: A yield function for orthotropic sheets under plane stress conditions. International Journal of Plasticity, 1989, 5, 51-66.	4.1	1,040
3	A six-component yield function for anisotropic materials. International Journal of Plasticity, 1991, 7, 693-712.	4.1	895
4	Linear transfomation-based anisotropic yield functions. International Journal of Plasticity, 2005, 21, 1009-1039.	4.1	824
5	Orthotropic yield criterion for hexagonal closed packed metals. International Journal of Plasticity, 2006, 22, 1171-1194.	4.1	649
6	A criterion for description of anisotropy and yield differential effects in pressure-insensitive metals. International Journal of Plasticity, 2004, 20, 2027-2045.	4.1	422
7	An alternative to kinematic hardening in classical plasticity. International Journal of Plasticity, 2011, 27, 1309-1327.	4.1	330
8	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
9	Orthotropic yield criteria for description of the anisotropy in tension and compression of sheet metals. International Journal of Plasticity, 2008, 24, 847-866.	4.1	258
10	Generalization of Drucker's Yield Criterion to Orthotropy. Mathematics and Mechanics of Solids, 2001, 6, 613-630.	1.5	257
11	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
12	Strain rate sensitivity of the commercial aluminum alloy AA5182-O. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 390, 334-343.	2.6	250
13	Crystallographic texture, anisotropic yield surfaces and forming limits of sheet metals. Materials Science and Engineering, 1987, 91, 55-72.	0.1	242
14	Continuous, large strain, tension/compression testing of sheet material. International Journal of Plasticity, 2005, 21, 2319-2343.	4.1	224
15	Advances in anisotropy and formability. International Journal of Material Forming, 2010, 3, 165-189.	0.9	204
16	On linear transformations of stress tensors for the description of plastic anisotropy. International Journal of Plasticity, 2007, 23, 876-896.	4.1	201
17	A simple model for dislocation behavior, strain and strain rate hardening evolution in deforming aluminum alloys. International Journal of Plasticity, 2002, 18, 919-939.	4.1	184
18	Anisotropic yield function of hexagonal materials taking into account texture development and anisotropic hardening. Acta Materialia, 2006, 54, 4159-4169.	3.8	184

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19	Prediction of tricomponent plane stress yield surfaces and associated flow and failure behavior of strongly textured f.c.c. polycrystalline sheets. Materials Science and Engineering, 1987, 95, 15-29.	0.1	178
20	Characterization of the post-necking strain hardening behavior using the virtual fields method. International Journal of Solids and Structures, 2013, 50, 3829-3842.	1.3	177
21	Extension of homogeneous anisotropic hardening model to cross-loading with latent effects. International Journal of Plasticity, 2013, 46, 130-142.	4.1	170
22	Prediction of the forming limit diagrams of anisotropic sheets in linear and non-linear loading. Materials Science and Engineering, 1985, 68, 151-164.	0.1	154
23	Experimental and theoretical formability analysis using strain and stress based forming limit diagram for advanced high strength steels. Materials & Design, 2013, 51, 756-766.	5.1	147
24	Enhancements of homogenous anisotropic hardening model and application to mild and dual-phase steels. International Journal of Plasticity, 2014, 58, 201-218.	4.1	140
25	Correlations between nanoindentation hardness and macroscopic mechanical properties in DP980 steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 597, 431-439.	2.6	137
26	Spring-back evaluation of automotive sheets based on isotropic-kinematic hardening laws and non-quadratic anisotropic yield functions. International Journal of Plasticity, 2005, 21, 861-882.	4.1	136
27	Application of the theory of representation to describe yielding of anisotropic aluminum alloys. International Journal of Engineering Science, 2003, 41, 1367-1385.	2.7	135
28	Work-hardening model for polycrystalline metals under strain reversal at large strains. Acta Materialia, 2007, 55, 2939-2948.	3.8	135
29	Material modeling of 6016-O and 6016-T4 aluminum alloy sheets and application to hole expansion forming simulation. International Journal of Plasticity, 2017, 93, 164-186.	4.1	135
30	Plastic flow for non-monotonic loading conditions of an aluminum alloy sheet sample. International Journal of Plasticity, 2003, 19, 1215-1244.	4.1	134
31	A crystallographic dislocation model for describing hardening of polycrystals during strain path changes. Application to low carbon steels. International Journal of Plasticity, 2013, 46, 54-69.	4.1	130
32	Earing predictions based on asymmetric nonquadratic yield function. International Journal of Plasticity, 2000, 16, 1075-1104.	4.1	127
33	Effect of texture and microstructure on strain hardening anisotropy for aluminum deformed in uniaxial tension and simple shear. International Journal of Plasticity, 2003, 19, 1-22.	4.1	126
34	New convex yield functions for orthotropic metal plasticity. International Journal of Non-Linear Mechanics, 2013, 51, 97-111.	1.4	126
35	Finite element modeling using homogeneous anisotropic hardening and application to spring-back prediction. International Journal of Plasticity, 2012, 29, 13-41.	4.1	121
36	Plastic behaviour and stretchability of sheet metals. Part II: Effect of yield surface shape on sheet forming limit. International Journal of Plasticity, 1989, 5, 131-147.	4.1	119

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37	Artificial aging and shear deformation behaviour of 6022 aluminium alloy. International Journal of Plasticity, 2004, 20, 427-445.	4.1	119
38	Formability of AA5182/polypropylene/AA5182 sandwich sheets. Journal of Materials Processing Technology, 2003, 139, 1-7.	3.1	111
39	Strain rate dependent tensile behavior of advanced high strength steels: Experiment and constitutive modeling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 559, 222-231.	2.6	109
40	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
41	An application of homogeneous anisotropic hardening to springback prediction in pre-strained U-draw/bending. International Journal of Solids and Structures, 2012, 49, 3562-3572.	1.3	96
42	Mechanical behavior of Mg subjected to strain path changes: Experiments and modeling. International Journal of Plasticity, 2015, 73, 171-183.	4.1	92
43	Anisotropic strain hardening behavior in simple shear for cube textured aluminum alloy sheets. International Journal of Plasticity, 2005, 21, 2426-2447.	4.1	85
44	Elastic-viscoplastic anisotropic modeling of textured metals and validation using the Taylor cylinder impact test. International Journal of Plasticity, 2007, 23, 1001-1021.	4.1	85
45	Experiment and modeling to investigate the effect of stress state, strain and temperature on martensitic phase transformation in TRIP-assisted steel. Acta Materialia, 2015, 97, 435-444.	3.8	85
46	Strain rate potential for metals and its application to minimum plastic work path calculations. International Journal of Plasticity, 1993, 9, 51-63.	4.1	83
47	Extension of quasi-plasticâ€“elastic approach to incorporate complex plastic flow behavior â€“ application to springback of advanced high-strength steels. International Journal of Plasticity, 2013, 45, 140-159.	4.1	83
48	Strain hardening response and modeling of EDDQ and DP780 steel sheet under non-linear strain path. Mechanics of Materials, 2013, 64, 11-26.	1.7	83
49	Crystal plasticity approach for predicting the Bauschinger effect in dual-phase steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 539, 259-270.	2.6	81
50	Nonlinear elastic behaviors of low and high strength steels in unloading and reloading. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 562, 161-171.	2.6	81
51	Comparative study of the prediction of microstructure and mechanical properties for a hot-stamped B-pillar reinforcing part. International Journal of Mechanical Sciences, 2011, 53, 744-752.	3.6	78
52	A new analytical theory for earing generated from anisotropic plasticity. International Journal of Plasticity, 2011, 27, 1165-1184.	4.1	78
53	Determination of Anisotropic Plastic Constitutive Parameters Using the Virtual Fields Method. Experimental Mechanics, 2014, 54, 1189-1204.	1.1	76
54	Finite element simulation of sheet forming based on a planar anisotropic strain-rate potential. International Journal of Plasticity, 1996, 12, 93-115.	4.1	71

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55	A comparison of the mechanical behaviour of an AA1050 and a low carbon steel deformed upon strain reversal. Acta Materialia, 2005, 53, 1005-1013.	3.8	71
56	Characterization of fracture in medium Mn steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 687, 200-210.	2.6	70
57	Strain hardening rate sensitivity and strain rate sensitivity in TWIP steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 629, 54-59.	2.6	69
58	The forming limit diagram of ferritic stainless steel sheets: Experiments and modeling. International Journal of Mechanical Sciences, 2012, 64, 1-10.	3.6	68
59	Macroscopic anisotropy in AA5019A sheets. Acta Materialia, 2000, 48, 1853-1863.	3.8	66
60	Constitutive and friction modeling for accurate springback analysis of advanced high strength steel sheets. International Journal of Plasticity, 2015, 71, 113-135.	4.1	66
61	An effective computational algorithm for rate-independent crystal plasticity based on a single crystal yield surface with an application to tube hydroforming. International Journal of Plasticity, 2007, 23, 1126-1147.	4.1	64
62	Effect of martensitic phase transformation on the behavior of 304 austenitic stainless steel under tension. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 649, 174-183.	2.6	63
63	Formability prediction of advanced high strength steels using constitutive models characterized by uniaxial and biaxial experiments. Journal of Materials Processing Technology, 2013, 213, 1929-1942.	3.1	61
64	Mechanical behavior of low carbon steel subjected to strain path changes: Experiments and modeling. Acta Materialia, 2016, 111, 305-314.	3.8	61
65	Characterization and modeling of the mechanical behavior and formability of a 2008-T4 sheet sample. International Journal of Mechanical Sciences, 1989, 31, 549-563.	3.6	60
66	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.	4.1	60
67	Finite element method for sheet forming based on an anisotropic strain-rate potential and the convected coordinate system. International Journal of Mechanical Sciences, 1995, 37, 733-752.	3.6	59
68	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.	3.4	57
69	An extended Modified Maximum Force Criterion for the prediction of localized necking under non-proportional loading. International Journal of Plasticity, 2015, 75, 189-203.	4.1	57
70	Creep and anelasticity in the springback of aluminum. International Journal of Plasticity, 2004, 20, 2209-2232.	4.1	54
71	Thermo-mechanical-metallurgical modeling for hot-press forming in consideration of the prior austenite deformation effect. International Journal of Plasticity, 2014, 58, 154-183.	4.1	54
72	Mechanical, microstructural behaviour and modelling of dual phase steels under complex deformation paths. International Journal of Plasticity, 2017, 93, 269-290.	4.1	53

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73	Anisotropic potentials for plastically deforming metals. Modelling and Simulation in Materials Science and Engineering, 1993, 1, 403-416.	0.8	52
74	Modeling of localization and fracture phenomena in strain and stress space for sheet metal forming. International Journal of Material Forming, 2016, 9, 573-584.	0.9	52
75	Non-quadratic anisotropic potentials based on linear transformation of plastic strain rate. International Journal of Plasticity, 2007, 23, 1380-1399.	4.1	51
76	Anticlastic curvature in draw-bend springback. International Journal of Solids and Structures, 2005, 42, 1287-1307.	1.3	50
77	Measurement and modeling of simple shear deformation under load reversal: Application to advanced high strength steels. International Journal of Mechanical Sciences, 2015, 98, 144-156.	3.6	50
78	Advances in anisotropy of plastic behaviour and formability of sheet metals. International Journal of Material Forming, 2020, 13, 749-787.	0.9	50
79	Stress integration schemes for novel homogeneous anisotropic hardening model. Computer Methods in Applied Mechanics and Engineering, 2012, 247-248, 73-92.	3.4	49
80	Formability of austenitic and ferritic stainless steels at warm forming temperature. International Journal of Mechanical Sciences, 2013, 75, 94-109.	3.6	49
81	An elasto-plastic constitutive model with plastic strain rate potentials for anisotropic cubic metals. International Journal of Plasticity, 2008, 24, 2298-2334.	4.1	48
82	Delamination cracking in advanced aluminumâ€“lithium alloys â€“ Experimental and computational studies. Engineering Fracture Mechanics, 2009, 76, 2174-2191.	2.0	48
83	Combined effects of anisotropy and tensionâ€“compression asymmetry on the torsional response of AZ31 Mg. International Journal of Solids and Structures, 2015, 58, 190-200.	1.3	48
84	Two-stage forming approach for manufacturing ferritic stainless steel bipolar plates in PEM fuel cell: Experiments and numerical simulations. International Journal of Hydrogen Energy, 2017, 42, 6965-6977.	3.8	48
85	Distortional plasticity framework with application to advanced high strength steel. International Journal of Solids and Structures, 2020, 202, 947-962.	1.3	47
86	Advanced constitutive modeling of advanced high strength steel sheets for springback prediction after double stage U-draw bending. International Journal of Solids and Structures, 2018, 151, 152-164.	1.3	46
87	Constitutive modeling for path-dependent behavior and its influence on twist springback. International Journal of Plasticity, 2017, 93, 64-88.	4.1	45
88	Parameter identification of advanced plastic strain rate potentials and impact on plastic anisotropy prediction. International Journal of Plasticity, 2009, 25, 491-512.	4.1	44
89	The effect of plastic anisotropy on compressive instability in sheet metal forming. International Journal of Plasticity, 2000, 16, 649-676.	4.1	43
90	Numerical and experimental study of the cold expansion process in 7085 plate using a modified split sleeve. Journal of Materials Processing Technology, 2007, 189, 45-57.	3.1	43

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91	Deformation-induced anisotropy of uniaxially prestrained steel sheets. International Journal of Solids and Structures, 2018, 134, 20-29.	1.3	43
92	Finite element modeling of tube hydroforming of polycrystalline aluminum alloy extrusions. International Journal of Plasticity, 2006, 22, 2366-2393.	4.1	42
93	Experimental assessment of nonlinear elastic behaviour of dual-phase steels and application to springback prediction. International Journal of Mechanical Sciences, 2016, 117, 1-15.	3.6	42
94	Piecewise linear approximation of nonlinear unloading-reloading behaviors using a multi-surface approach. International Journal of Plasticity, 2017, 93, 112-136.	4.1	42
95	Crystal plasticity finite element analysis of ferritic stainless steel for sheet formability prediction. International Journal of Plasticity, 2017, 93, 26-45.	4.1	41
96	Spring-back evaluation of automotive sheets based on isotropic-kinematic hardening laws and non-quadratic anisotropic yield functionsPart I: theory and formulation. International Journal of Plasticity, 2005, 21, 861-882.	4.1	40
97	Analysis of sheet metal formability through isotropic and kinematic hardening models. European Journal of Mechanics, A/Solids, 2011, 30, 532-546.	2.1	40
98	Non-isothermal kinetics model to predict accurate phase transformation and hardness of 22MnB5 boron steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 626, 67-73.	2.6	40
99	Modelling and sensitivity analysis of twist springback in deep drawing of dual-phase steel. Materials and Design, 2016, 90, 204-217.	3.3	40
100	A crystal plasticity model for describing the anisotropic hardening behavior of steel sheets during strain-path changes. International Journal of Plasticity, 2018, 111, 85-106.	4.1	40
101	Asymmetric rolling of thin AA-5182 sheets: Modelling and experiments. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 603, 150-159.	2.6	39
102	Convex polynomial yield functions. Journal of the Mechanics and Physics of Solids, 2010, 58, 1804-1818.	2.3	38
103	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
104	Hole expansion of twinning-induced plasticity steel. Scripta Materialia, 2012, 66, 1012-1017.	2.6	38
105	Damage mechanism and modeling of void nucleation process in a ferriteâ€“martensite dual phase steel. Engineering Fracture Mechanics, 2014, 127, 97-103.	2.0	38
106	On precipitate induced hardening in crystal plasticity: theory. International Journal of Plasticity, 2004, 20, 477-494.	4.1	37
107	Mechanical behavior of an asymmetrically rolled and annealed 1050-O sheet. International Journal of Mechanical Sciences, 2008, 50, 1372-1380.	3.6	37
108	Experimental and Analytical Investigations on Plane Strain Toughness for 7085 Aluminum Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 365-376.	1.1	37

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109	Parameter reduction for the Yld2004-18p yield criterion. International Journal of Material Forming, 2016, 9, 175-178.	0.9	37
110	Investigation of plastic strain rate under strain path changes in dual-phase steel using microstructure-based modeling. International Journal of Plasticity, 2017, 93, 89-111.	4.1	37
111	A comparative study between elasto-plastic self-consistent crystal plasticity and anisotropic yield function with distortional hardening formulations for sheet metal forming. Mechanics of Materials, 2020, 148, 103422.	1.7	34
112	Correlation between swift effects and tensionâ€“compression asymmetry in various polycrystalline materials. Journal of the Mechanics and Physics of Solids, 2014, 70, 104-115.	2.3	33
113	A general linear method to evaluate the hardening behaviour of metals at large strain with fullâ€field measurements. Strain, 2018, 54, e12265.	1.4	33
114	Inverse identification strategies for the characterization of transformation-based anisotropic plasticity models with the non-linear VFM. International Journal of Mechanical Sciences, 2020, 173, 105422.	3.6	33
115	Transformation kinetics and density models of quenching and partitioning (Q&P) steels. Acta Materialia, 2016, 109, 394-404.	3.8	32
116	A dislocation-based hardening model incorporated into an anisotropic hardening approach. Computational Materials Science, 2013, 79, 570-583.	1.4	31
117	Balanced Biaxial Testing of Advanced High Strength Steels in Warm Conditions. Experimental Mechanics, 2013, 53, 1681-1692.	1.1	31
118	On twist springback prediction of asymmetric tube in rotary draw bending with different constitutive models. International Journal of Mechanical Sciences, 2014, 89, 311-322.	3.6	31
119	Stress update algorithm for enhanced homogeneous anisotropic hardening model. Computer Methods in Applied Mechanics and Engineering, 2015, 286, 63-86.	3.4	31
120	EBSD Study of Damage Mechanisms in a High-Strength Ferrite-Martensite Dual-Phase Steel. Journal of Materials Engineering and Performance, 2015, 24, 53-58.	1.2	31
121	A microstructure-based model for describing the material properties of Alâ€“Zn alloys during high pressure torsion. International Journal of Plasticity, 2015, 68, 150-163.	4.1	31
122	Asymmetric rolling of interstitial free steel sheets: Microstructural evolution and mechanical properties. Journal of Manufacturing Processes, 2018, 31, 583-592.	2.8	31
123	Numerical modeling for accurate prediction of strain localization in hole expansion of a steel sheet. International Journal of Solids and Structures, 2019, 156-157, 107-118.	1.3	31
124	Constitutive modelling of high strength titanium alloy Ti-6Al-4ÂV for sheet forming applications at room temperature. International Journal of Solids and Structures, 2016, 80, 334-347.	1.3	30
125	Modelling direction-dependent hardening in magnesium sheet forming simulations. International Journal of Material Forming, 2011, 4, 243-253.	0.9	29
126	Properties controlling the bend-assisted fracture of AHSS. International Journal of Plasticity, 2015, 75, 100-120.	4.1	29

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127	Modified Kocksâ€“Meckingâ€“Estrin Model to Account Nonlinear Strain Hardening. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 513-517.	1.1	29
128	On crystallographic texture gradient and its mechanical consequence in rolled aluminum-lithium sheet. Scripta Metallurgica Et Materialia, 1992, 27, 1121-1126.	1.0	28
129	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
130	Measurements of anisotropic yielding, bauschinger and transient behavior of automotive dual-phase steel sheets. Metals and Materials International, 2003, 9, 561-570.	1.8	28
131	Evaluation of Fracture Micromechanisms in a Fineâ€Grained Dual Phase Steel during Uniaxial Tensile Deformation. Steel Research International, 2014, 85, 1386-1392.	1.0	28
132	Isotropic to distortional hardening transition in metal plasticity. International Journal of Solids and Structures, 2015, 56-57, 11-19.	1.3	28
133	Observations on the Nonlinear Unloading Behavior of Advanced High Strength Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 18-22.	1.1	28
134	A comparative study between micro- and macro-mechanical constitutive models developed for complex loading scenarios. International Journal of Plasticity, 2017, 93, 212-228.	4.1	28
135	Advanced constitutive model for repeated stress relaxation accounting for transient mobile dislocation density and internal stress. Mechanics of Materials, 2019, 133, 138-153.	1.7	27
136	Influence of precipitate microstructure on flow and forming properties of an aluminum alloy sheet. Acta Metallurgica Et Materialia, 1991, 39, 391-400.	1.9	26
137	Evaluation of biaxial flow stress based on elasto-viscoplastic self-consistent analysis of X-ray diffraction measurements. International Journal of Plasticity, 2015, 66, 103-118.	4.1	26
138	Evaluation of Springback for DP980 S Rail Using Anisotropic Hardening Models. Jom, 2016, 68, 1850-1857.	0.9	26
139	Application of the virtual fields method to the identification of the homogeneous anisotropic hardening parameters for advanced high strength steels. International Journal of Plasticity, 2017, 93, 229-250.	4.1	26
140	Numerical integration algorithm of updated homogeneous anisotropic hardening model through finite element framework. Computer Methods in Applied Mechanics and Engineering, 2020, 372, 113449.	3.4	26
141	Validation of homogeneous anisotropic hardening model using non-linear strain path experiments. International Journal of Mechanical Sciences, 2020, 183, 105769.	3.6	26
142	Hot Press Forming of Tailor Welded Blank: Experiments and FE Modeling. ISIJ International, 2012, 52, 2059-2068.	0.6	25
143	Measurement of the strength differential effect of DP980 steel sheet and experimental validation using pure bending test. Journal of Materials Processing Technology, 2018, 256, 247-253.	3.1	25
144	Texture evolution of FCC sheet metals during deep drawing process. International Journal of Mechanical Sciences, 2000, 42, 1571-1592.	3.6	24

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145	Experiments and Modeling of Low Carbon Steel Sheet Subjected to Double Strain Path Changes. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 4475-4479.	1.1	24
146	Identification of nonlinear kinematic hardening constitutive model parameters using the virtual fields method for advanced high strength steels. International Journal of Solids and Structures, 2016, 102-103, 30-43.	1.3	24
147	Anisotropy and Formability. , 2007, , 143-173.		23
148	Determining the coefficients of a homogeneous anisotropic hardening model for ultrathin steel sheets. International Journal of Mechanical Sciences, 2019, 157-158, 428-438.	3.6	23
149	Experimental and theoretical plasticity analyses of steel materials deformed under a nonlinear strain path. International Journal of Mechanical Sciences, 2020, 182, 105770.	3.6	23
150	Hole expansion of advanced high strenth steel sheet sample. International Journal of Material Forming, 2010, 3, 247-250.	0.9	22
151	A study of the Yld2004 yield function and one extension in polynomial form: AÂnew implementation algorithm, modeling range, and earing predictions for aluminum alloy sheets. European Journal of Mechanics, A/Solids, 2011, 30, 807-819.	2.1	21
152	Effect of nonlinear multi-axial elasticity and anisotropic plasticity on quasi-static dent properties of automotive steel sheets. International Journal of Solids and Structures, 2016, 87, 254-266.	1.3	21
153	Fracture characteristics of advanced high strength steels during hole expansion test. International Journal of Fracture, 2020, 224, 217-233.	1.1	21
154	New interpretation of monotonic Swift effects: Role of tensionâ€“compression asymmetry. Mechanics of Materials, 2013, 57, 42-52.	1.7	20
155	Multiâ€Objective Genetic Algorithm to Optimize Variable Drawbead Geometry for Tailor Welded Blanks Made of Dissimilar Steels. Steel Research International, 2014, 85, 1597-1607.	1.0	20
156	Mechanism of the Bauschinger effect in Al-Ge-Si alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 684, 353-372.	2.6	20
157	Void coalescence and fracture behavior of notched and un-notched tensile tested specimens in fine grain dual phase steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 644, 210-217.	2.6	19
158	Determination of Anisotropic Yield Coefficients by a Data-Driven Multiobjective Evolutionary and Genetic Algorithm. Materials and Manufacturing Processes, 2015, 30, 403-413.	2.7	19
159	Stress development and shape change during press-hardening process using phase-transformation-based finite element analysis. International Journal of Plasticity, 2015, 73, 142-170.	4.1	19
160	Thermomechanical response of a TWIP steel during monotonic and non-monotonic uniaxial loading. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 674, 276-285.	2.6	19
161	Numerical investigation of the post-necking behavior of aluminum sheets in the presence of geometrical and material inhomogeneities. International Journal of Solids and Structures, 2016, 102-103, 56-65.	1.3	19
162	Continuous strain path change simulations for sheet metal. Computational Materials Science, 2014, 82, 286-292.	1.4	18

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163	Analysis of ESAFORM 2021 cup drawing benchmark of an Al alloy, critical factors for accuracy and efficiency of FE simulations. International Journal of Material Forming, 2022, 15, .	0.9	18
164	Microstructural effects on yield surface evolution in cubic metals using the viscoplastic Ï•-model. International Journal of Plasticity, 2011, 27, 102-120.	4.1	17
165	Modeling of forming limit for multilayer sheets based on strain-rate potentials. International Journal of Plasticity, 2015, 75, 63-99.	4.1	17
166	Performance review of various uncoupled fracture criteria for TRIP steel sheet. International Journal of Mechanical Sciences, 2021, 195, 106269.	3.6	17
167	Unconstrained springback behavior of Alâ€“Mgâ€“Si sheets for different sitting times. International Journal of Mechanical Sciences, 2008, 50, 1381-1389.	3.6	16
168	Finite Element Modeling of Plane Strain Toughness for 7085 Aluminum Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 354-364.	1.1	16
169	Themo-mechanical and microstructural modeling of friction stir welding of 6111-T4 aluminum alloys. Metals and Materials International, 2009, 15, 125-132.	1.8	16
170	A Novel Multi-objective Genetic Algorithms-Based Calculation of Hillâ€™s Coefficients. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 2704-2707.	1.1	16
171	Probing Formability Improvement of Ultra-thin Ferritic Stainless Steel Bipolar Plate of PEMFC in Non-conventional Forming Process. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 4160-4174.	1.1	16
172	Failure characteristics of advanced high strength steels at macro and micro scales. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 754, 411-427.	2.6	16
173	Experimental and Numerical Analyses of Hot Stamped Parts with Tailored Properties. ISIJ International, 2013, 53, 1047-1056.	0.6	15
174	On precipitate induced hardening in crystal plasticity: algorithms and simulations. International Journal of Plasticity, 2004, 20, 1441-1461.	4.1	14
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