

# Frederic Barlat

## List of Publications by Citations

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298  
papers

13,840  
citations

56  
h-index

110  
g-index

313  
ext. papers

15,318  
ext. citations

4.2  
avg, IF

6.69  
L-index

#	Paper	IF	Citations
298	Plane stress yield function for aluminum alloy sheets—part 1: theory. <i>International Journal of Plasticity</i> , <b>2003</b> , 19, 1297-1319	7.6	1135
297	Plastic behavior and stretchability of sheet metals. Part I: A yield function for orthotropic sheets under plane stress conditions. <i>International Journal of Plasticity</i> , <b>1989</b> , 5, 51-66	7.6	881
296	A six-component yield function for anisotropic materials. <i>International Journal of Plasticity</i> , <b>1991</b> , 7, 693-712	7.6	748
295	Linear transformation-based anisotropic yield functions. <i>International Journal of Plasticity</i> , <b>2005</b> , 21, 1009-1039	7.6	650
294	Orthotropic yield criterion for hexagonal closed packed metals. <i>International Journal of Plasticity</i> , <b>2006</b> , 22, 1171-1194	7.6	518
293	A criterion for description of anisotropy and yield differential effects in pressure-insensitive metals. <i>International Journal of Plasticity</i> , <b>2004</b> , 20, 2027-2045	7.6	323
292	An alternative to kinematic hardening in classical plasticity. <i>International Journal of Plasticity</i> , <b>2011</b> , 27, 1309-1327	7.6	275
291	Prediction of six or eight ears in a drawn cup based on a new anisotropic yield function. <i>International Journal of Plasticity</i> , <b>2006</b> , 22, 174-193	7.6	225
290	Crystallographic texture, anisotropic yield surfaces and forming limits of sheet metals. <i>Materials Science and Engineering</i> , <b>1987</b> , 91, 55-72		224
289	Strain rate sensitivity of the commercial aluminum alloy AA5182-O. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2005</b> , 390, 334-343	5.3	216
288	Orthotropic yield criteria for description of the anisotropy in tension and compression of sheet metals. <i>International Journal of Plasticity</i> , <b>2008</b> , 24, 847-866	7.6	215
287	Plane stress yield function for aluminum alloy sheets—part II: FE formulation and its implementation. <i>International Journal of Plasticity</i> , <b>2004</b> , 20, 495-522	7.6	212
286	Generalization of Drucker's Yield Criterion to Orthotropy. <i>Mathematics and Mechanics of Solids</i> , <b>2001</b> , 6, 613-630	2.3	197
285	Continuous, large strain, tension/compression testing of sheet material. <i>International Journal of Plasticity</i> , <b>2005</b> , 21, 2319-2343	7.6	191
284	Advances in anisotropy and formability. <i>International Journal of Material Forming</i> , <b>2010</b> , 3, 165-189	2	170
283	On linear transformations of stress tensors for the description of plastic anisotropy. <i>International Journal of Plasticity</i> , <b>2007</b> , 23, 876-896	7.6	169
282	Anisotropic yield function of hexagonal materials taking into account texture development and anisotropic hardening. <i>Acta Materialia</i> , <b>2006</b> , 54, 4159-4169	8.4	158

281	Prediction of tricomponent plane stress yield surfaces and associated flow and failure behavior of strongly textured f.c.c. polycrystalline sheets. <i>Materials Science and Engineering</i> , <b>1987</b> , 95, 15-29		154
280	Extension of homogeneous anisotropic hardening model to cross-loading with latent effects. <i>International Journal of Plasticity</i> , <b>2013</b> , 46, 130-142	7.6	144
279	A simple model for dislocation behavior, strain and strain rate hardening evolution in deforming aluminum alloys. <i>International Journal of Plasticity</i> , <b>2002</b> , 18, 919-939	7.6	140
278	Characterization of the post-necking strain hardening behavior using the virtual fields method. <i>International Journal of Solids and Structures</i> , <b>2013</b> , 50, 3829-3842	3.1	135
277	Prediction of the forming limit diagrams of anisotropic sheets in linear and non-linear loading. <i>Materials Science and Engineering</i> , <b>1985</b> , 68, 151-164		135
276	Spring-back evaluation of automotive sheets based on isotropic-kinematic hardening laws and non-quadratic anisotropic yield functions. <i>International Journal of Plasticity</i> , <b>2005</b> , 21, 861-882	7.6	128
275	Plastic flow for non-monotonic loading conditions of an aluminum alloy sheet sample. <i>International Journal of Plasticity</i> , <b>2003</b> , 19, 1215-1244	7.6	119
274	Experimental and theoretical formability analysis using strain and stress based forming limit diagram for advanced high strength steels. <i>Materials &amp; Design</i> , <b>2013</b> , 51, 756-766		117
273	Work-hardening model for polycrystalline metals under strain reversal at large strains. <i>Acta Materialia</i> , <b>2007</b> , 55, 2939-2948	8.4	115
272	Earing predictions based on asymmetric nonquadratic yield function. <i>International Journal of Plasticity</i> , <b>2000</b> , 16, 1075-1104	7.6	115
271	A crystallographic dislocation model for describing hardening of polycrystals during strain path changes. Application to low carbon steels. <i>International Journal of Plasticity</i> , <b>2013</b> , 46, 54-69	7.6	113
270	Artificial aging and shear deformation behaviour of 6022 aluminium alloy. <i>International Journal of Plasticity</i> , <b>2004</b> , 20, 427-445	7.6	111
269	Enhancements of homogenous anisotropic hardening model and application to mild and dual-phase steels. <i>International Journal of Plasticity</i> , <b>2014</b> , 58, 201-218	7.6	110
268	Plastic behaviour and stretchability of sheet metals. Part II: Effect of yield surface shape on sheet forming limit. <i>International Journal of Plasticity</i> , <b>1989</b> , 5, 131-147	7.6	110
267	Application of the theory of representation to describe yielding of anisotropic aluminum alloys. <i>International Journal of Engineering Science</i> , <b>2003</b> , 41, 1367-1385	5.7	109
266	Effect of texture and microstructure on strain hardening anisotropy for aluminum deformed in uniaxial tension and simple shear. <i>International Journal of Plasticity</i> , <b>2003</b> , 19, 1-22	7.6	108
265	Finite element modeling using homogeneous anisotropic hardening and application to spring-back prediction. <i>International Journal of Plasticity</i> , <b>2012</b> , 29, 13-41	7.6	104
264	Correlations between nanoindentation hardness and macroscopic mechanical properties in DP980 steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 597, 431-439	5.3	104

263	Material modeling of 6016-O and 6016-T4 aluminum alloy sheets and application to hole expansion forming simulation. <i>International Journal of Plasticity</i> , <b>2017</b> , 93, 164-186	7.6	99
262	New convex yield functions for orthotropic metal plasticity. <i>International Journal of Non-Linear Mechanics</i> , <b>2013</b> , 51, 97-111	2.8	93
261	Formability of AA5182/polypropylene/AA5182 sandwich sheets. <i>Journal of Materials Processing Technology</i> , <b>2003</b> , 139, 1-7	5.3	88
260	Strain rate dependent tensile behavior of advanced high strength steels: Experiment and constitutive modeling. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 559, 222-231	5.3	82
259	An application of homogeneous anisotropic hardening to springback prediction in pre-strained U-draw/bending. <i>International Journal of Solids and Structures</i> , <b>2012</b> , 49, 3562-3572	3.1	81
258	A general elasto-plastic finite element formulation based on incremental deformation theory for planar anisotropy and its application to sheet metal forming. <i>International Journal of Plasticity</i> , <b>1999</b> , 15, 35-67	7.6	79
257	Mechanical behavior of Mg subjected to strain path changes: Experiments and modeling. <i>International Journal of Plasticity</i> , <b>2015</b> , 73, 171-183	7.6	76
256	Strain rate potential for metals and its application to minimum plastic work path calculations. <i>International Journal of Plasticity</i> , <b>1993</b> , 9, 51-63	7.6	76
255	Elastic-viscoplastic anisotropic modeling of textured metals and validation using the Taylor cylinder impact test. <i>International Journal of Plasticity</i> , <b>2007</b> , 23, 1001-1021	7.6	71
254	Extension of quasi-plastic/elastic approach to incorporate complex plastic flow behavior □ application to springback of advanced high-strength steels. <i>International Journal of Plasticity</i> , <b>2013</b> , 45, 140-159	7.6	70
253	Crystal plasticity approach for predicting the Bauschinger effect in dual-phase steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 539, 259-270	5.3	68
252	Strain hardening response and modeling of EDDQ and DP780 steel sheet under non-linear strain path. <i>Mechanics of Materials</i> , <b>2013</b> , 64, 11-26	3.3	68
251	Comparative study of the prediction of microstructure and mechanical properties for a hot-stamped B-pillar reinforcing part. <i>International Journal of Mechanical Sciences</i> , <b>2011</b> , 53, 744-752	5.5	67
250	Nonlinear elastic behaviors of low and high strength steels in unloading and reloading. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 562, 161-171	5.3	66
249	Anisotropic strain hardening behavior in simple shear for cube textured aluminum alloy sheets. <i>International Journal of Plasticity</i> , <b>2005</b> , 21, 2426-2447	7.6	65
248	A comparison of the mechanical behaviour of an AA1050 and a low carbon steel deformed upon strain reversal. <i>Acta Materialia</i> , <b>2005</b> , 53, 1005-1013	8.4	64
247	Finite element simulation of sheet forming based on a planar anisotropic strain-rate potential. <i>International Journal of Plasticity</i> , <b>1996</b> , 12, 93-115	7.6	62
246	Strain hardening rate sensitivity and strain rate sensitivity in TWIP steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 629, 54-59	5.3	61

245	A new analytical theory for earing generated from anisotropic plasticity. <i>International Journal of Plasticity</i> , <b>2011</b> , 27, 1165-1184	7.6	61
244	Experiment and modeling to investigate the effect of stress state, strain and temperature on martensitic phase transformation in TRIP-assisted steel. <i>Acta Materialia</i> , <b>2015</b> , 97, 435-444	8.4	60
243	The forming limit diagram of ferritic stainless steel sheets: Experiments and modeling. <i>International Journal of Mechanical Sciences</i> , <b>2012</b> , 64, 1-10	5.5	59
242	Characterization and modeling of the mechanical behavior and formability of a 2008-T4 sheet sample. <i>International Journal of Mechanical Sciences</i> , <b>1989</b> , 31, 549-563	5.5	55
241	Macroscopic anisotropy in AA5019A sheets. <i>Acta Materialia</i> , <b>2000</b> , 48, 1853-1863	8.4	54
240	Determination of Anisotropic Plastic Constitutive Parameters Using the Virtual Fields Method. <i>Experimental Mechanics</i> , <b>2014</b> , 54, 1189-1204	2.6	53
239	Effect of martensitic phase transformation on the behavior of 304 austenitic stainless steel under tension. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 649, 174-183	5.3	52
238	An effective computational algorithm for rate-independent crystal plasticity based on a single crystal yield surface with an application to tube hydroforming. <i>International Journal of Plasticity</i> , <b>2007</b> , 23, 1126-1147	7.6	52
237	Constitutive and friction modeling for accurate springback analysis of advanced high strength steel sheets. <i>International Journal of Plasticity</i> , <b>2015</b> , 71, 113-135	7.6	51
236	Formability prediction of advanced high strength steels using constitutive models characterized by uniaxial and biaxial experiments. <i>Journal of Materials Processing Technology</i> , <b>2013</b> , 213, 1929-1942	5.3	50
235	Creep and anelasticity in the springback of aluminum. <i>International Journal of Plasticity</i> , <b>2004</b> , 20, 2209-2282		50
234	Development of a one point quadrature shell element for nonlinear applications with contact and anisotropy. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2002</b> , 191, 5177-5206	5.7	50
233	Characterization of fracture in medium Mn steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 687, 200-210	5.3	48
232	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> , <b>2009</b> , 25, 2383-2409	7.6	48
231	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> , <b>1995</b> , 37, 733-752	5.5	48
230	Anisotropic potentials for plastically deforming metals. <i>Modelling and Simulation in Materials Science and Engineering</i> , <b>1993</b> , 1, 403-416	2	46
229	Mechanical behavior of low carbon steel subjected to strain path changes: Experiments and modeling. <i>Acta Materialia</i> , <b>2016</b> , 111, 305-314	8.4	46
228	Modeling of localization and fracture phenomena in strain and stress space for sheet metal forming. <i>International Journal of Material Forming</i> , <b>2016</b> , 9, 573-584	2	45

227	Thermo-mechanical-metallurgical modeling for hot-press forming in consideration of the prior austenite deformation effect. <i>International Journal of Plasticity</i> , <b>2014</b> , 58, 154-183	7.6	45
226	Non-quadratic anisotropic potentials based on linear transformation of plastic strain rate. <i>International Journal of Plasticity</i> , <b>2007</b> , 23, 1380-1399	7.6	43
225	Anticlastic curvature in draw-bend springback. <i>International Journal of Solids and Structures</i> , <b>2005</b> , 42, 1287-1307	3.1	43
224	An extended Modified Maximum Force Criterion for the prediction of localized necking under non-proportional loading. <i>International Journal of Plasticity</i> , <b>2015</b> , 75, 189-203	7.6	42
223	Delamination cracking in advanced aluminum-lithium alloys [Experimental and computational studies. <i>Engineering Fracture Mechanics</i> , <b>2009</b> , 76, 2174-2191	4.2	42
222	Formability of austenitic and ferritic stainless steels at warm forming temperature. <i>International Journal of Mechanical Sciences</i> , <b>2013</b> , 75, 94-109	5.5	41
221	Measurement and modeling of simple shear deformation under load reversal: Application to advanced high strength steels. <i>International Journal of Mechanical Sciences</i> , <b>2015</b> , 98, 144-156	5.5	39
220	Stress integration schemes for novel homogeneous anisotropic hardening model. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2012</b> , 247-248, 73-92	5.7	39
219	Parameter identification of advanced plastic strain rate potentials and impact on plastic anisotropy prediction. <i>International Journal of Plasticity</i> , <b>2009</b> , 25, 491-512	7.6	39
218	Combined effects of anisotropy and tension-compression asymmetry on the torsional response of AZ31 Mg. <i>International Journal of Solids and Structures</i> , <b>2015</b> , 58, 190-200	3.1	38
217	Finite element modeling of tube hydroforming of polycrystalline aluminum alloy extrusions. <i>International Journal of Plasticity</i> , <b>2006</b> , 22, 2366-2393	7.6	38
216	Mechanical, microstructural behaviour and modelling of dual phase steels under complex deformation paths. <i>International Journal of Plasticity</i> , <b>2017</b> , 93, 269-290	7.6	36
215	An elasto-plastic constitutive model with plastic strain rate potentials for anisotropic cubic metals. <i>International Journal of Plasticity</i> , <b>2008</b> , 24, 2298-2334	7.6	36
214	The effect of plastic anisotropy on compressive instability in sheet metal forming. <i>International Journal of Plasticity</i> , <b>2000</b> , 16, 649-676	7.6	36
213	Hole expansion of twinning-induced plasticity steel. <i>Scripta Materialia</i> , <b>2012</b> , 66, 1012-1017	5.6	35
212	Deformation-induced anisotropy of uniaxially prestrained steel sheets. <i>International Journal of Solids and Structures</i> , <b>2018</b> , 134, 20-29	3.1	32
211	Damage mechanism and modeling of void nucleation process in a ferrite-bartensite dual phase steel. <i>Engineering Fracture Mechanics</i> , <b>2014</b> , 127, 97-103	4.2	32
210	Experimental and Analytical Investigations on Plane Strain Toughness for 7085 Aluminum Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2009</b> , 40, 365-376	2.3	32

209	Numerical and experimental study of the cold expansion process in 7085 plate using a modified split sleeve. <i>Journal of Materials Processing Technology</i> , <b>2007</b> , 189, 45-57	5.3	32
208	Mechanical behavior of an asymmetrically rolled and annealed 1050-O sheet. <i>International Journal of Mechanical Sciences</i> , <b>2008</b> , 50, 1372-1380	5.5	32
207	Piecewise linear approximation of nonlinear unloading-reloading behaviors using a multi-surface approach. <i>International Journal of Plasticity</i> , <b>2017</b> , 93, 112-136	7.6	31
206	Non-isothermal kinetics model to predict accurate phase transformation and hardness of 22MnB5 boron steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 626, 67-73	5.3	31
205	Asymmetric rolling of thin AA-5182 sheets: Modelling and experiments. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 603, 150-159	5.3	30
204	A novel approach for anisotropic hardening modeling. Part II: Anisotropic hardening in proportional and non-proportional loadings, application to initially isotropic material. <i>International Journal of Plasticity</i> , <b>2010</b> , 26, 1029-1049	7.6	30
203	On precipitate induced hardening in crystal plasticity: theory. <i>International Journal of Plasticity</i> , <b>2004</b> , 20, 477-494	7.6	30
202	Crystal plasticity finite element analysis of ferritic stainless steel for sheet formability prediction. <i>International Journal of Plasticity</i> , <b>2017</b> , 93, 26-45	7.6	29
201	Analysis of sheet metal formability through isotropic and kinematic hardening models. <i>European Journal of Mechanics, A/Solids</i> , <b>2011</b> , 30, 532-546	3.7	29
200	Advanced constitutive modeling of advanced high strength steel sheets for springback prediction after double stage U-draw bending. <i>International Journal of Solids and Structures</i> , <b>2018</b> , 151, 152-164	3.1	28
199	Modelling and sensitivity analysis of twist springback in deep drawing of dual-phase steel. <i>Materials and Design</i> , <b>2016</b> , 90, 204-217	8.1	28
198	Correlation between swift effects and tension-compression asymmetry in various polycrystalline materials. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2014</b> , 70, 104-115	5	28
197	Modelling direction-dependent hardening in magnesium sheet forming simulations. <i>International Journal of Material Forming</i> , <b>2011</b> , 4, 243-253	2	28
196	Transformation kinetics and density models of quenching and partitioning (Q&P) steels. <i>Acta Materialia</i> , <b>2016</b> , 109, 394-404	8.4	28
195	Investigation of plastic strain rate under strain path changes in dual-phase steel using microstructure-based modeling. <i>International Journal of Plasticity</i> , <b>2017</b> , 93, 89-111	7.6	27
194	Constitutive modeling for path-dependent behavior and its influence on twist springback. <i>International Journal of Plasticity</i> , <b>2017</b> , 93, 64-88	7.6	27
193	Two-stage forming approach for manufacturing ferritic stainless steel bipolar plates in PEM fuel cell: Experiments and numerical simulations. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 6965-6977	6.7	27
192	Observations on the Nonlinear Unloading Behavior of Advanced High Strength Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2015</b> , 46, 18-22	2.3	27

191	A dislocation-based hardening model incorporated into an anisotropic hardening approach. <i>Computational Materials Science</i> , <b>2013</b> , 79, 570-583	3.2	27
190	Balanced Biaxial Testing of Advanced High Strength Steels in Warm Conditions. <i>Experimental Mechanics</i> , <b>2013</b> , 53, 1681-1692	2.6	27
189	Parameter reduction for the Yld2004-18p yield criterion. <i>International Journal of Material Forming</i> , <b>2016</b> , 9, 175-178	2	26
188	Isotropic to distortional hardening transition in metal plasticity. <i>International Journal of Solids and Structures</i> , <b>2015</b> , 56-57, 11-19	3.1	26
187	Convex polynomial yield functions. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2010</b> , 58, 1804-1818	5	26
186	Investigation into wrinkling behavior in the elliptical cup deep drawing process by finite element analysis using bifurcation theory. <i>Journal of Materials Processing Technology</i> , <b>2001</b> , 111, 170-174	5.3	26
185	Experimental assessment of nonlinear elastic behaviour of dual-phase steels and application to springback prediction. <i>International Journal of Mechanical Sciences</i> , <b>2016</b> , 117, 1-15	5.5	25
184	Evaluation of Fracture Micromechanisms in a Fine-Grained Dual Phase Steel during Uniaxial Tensile Deformation. <i>Steel Research International</i> , <b>2014</b> , 85, 1386-1392	1.6	25
183	On crystallographic texture gradient and its mechanical consequence in rolled aluminum-lithium sheet. <i>Scripta Metallurgica Et Materialia</i> , <b>1992</b> , 27, 1121-1126		25
182	Distortional plasticity framework with application to advanced high strength steel. <i>International Journal of Solids and Structures</i> , <b>2020</b> , 202, 947-962	3.1	24
181	On twist springback prediction of asymmetric tube in rotary draw bending with different constitutive models. <i>International Journal of Mechanical Sciences</i> , <b>2014</b> , 89, 311-322	5.5	24
180	Measurements of anisotropic yielding, bauschinger and transient behavior of automotive dual-phase steel sheets. <i>Metals and Materials International</i> , <b>2003</b> , 9, 561-570	2.4	24
179	Influence of precipitate microstructure on flow and forming properties of an aluminum alloy sheet. <i>Acta Metallurgica Et Materialia</i> , <b>1991</b> , 39, 391-400		24
178	Stress update algorithm for enhanced homogeneous anisotropic hardening model. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2015</b> , 286, 63-86	5.7	23
177	A general linear method to evaluate the hardening behaviour of metals at large strain with full-field measurements. <i>Strain</i> , <b>2018</b> , 54, e12265	1.7	23
176	A crystal plasticity model for describing the anisotropic hardening behavior of steel sheets during strain-path changes. <i>International Journal of Plasticity</i> , <b>2018</b> , 111, 85-106	7.6	23
175	Application of the virtual fields method to the identification of the homogeneous anisotropic hardening parameters for advanced high strength steels. <i>International Journal of Plasticity</i> , <b>2017</b> , 93, 229-250	7.6	23
174	Evaluation of biaxial flow stress based on elasto-viscoplastic self-consistent analysis of X-ray diffraction measurements. <i>International Journal of Plasticity</i> , <b>2015</b> , 66, 103-118	7.6	23



173	Properties controlling the bend-assisted fracture of AHSS. <i>International Journal of Plasticity</i> , <b>2015</b> , 75, 100-120	7.6	22
172	A microstructure-based model for describing the material properties of AlZn alloys during high pressure torsion. <i>International Journal of Plasticity</i> , <b>2015</b> , 68, 150-163	7.6	22
171	Constitutive modelling of high strength titanium alloy Ti-6Al-4 V for sheet forming applications at room temperature. <i>International Journal of Solids and Structures</i> , <b>2016</b> , 80, 334-347	3.1	22
170	Experiments and Modeling of Low Carbon Steel Sheet Subjected to Double Strain Path Changes. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2013</b> , 44, 4475-4479	3.3	22
169	A comparative study between micro- and macro-mechanical constitutive models developed for complex loading scenarios. <i>International Journal of Plasticity</i> , <b>2017</b> , 93, 212-228	7.6	22
168	Texture evolution of FCC sheet metals during deep drawing process. <i>International Journal of Mechanical Sciences</i> , <b>2000</b> , 42, 1571-1592	5.5	22
167	EBSD Study of Damage Mechanisms in a High-Strength Ferrite-Martensite Dual-Phase Steel. <i>Journal of Materials Engineering and Performance</i> , <b>2015</b> , 24, 53-58	1.6	21
166	Asymmetric rolling of interstitial free steel sheets: Microstructural evolution and mechanical properties. <i>Journal of Manufacturing Processes</i> , <b>2018</b> , 31, 583-592	5	21
165	Spring-back evaluation of automotive sheets based on isotropic-kinematic hardening laws and non-quadratic anisotropic yield functionsPart I: theory and formulation. <i>International Journal of Plasticity</i> , <b>2005</b> , 21, 861-882	7.6	21
164	A comparative study between elasto-plastic self-consistent crystal plasticity and anisotropic yield function with distortional hardening formulations for sheet metal forming. <i>Mechanics of Materials</i> , <b>2020</b> , 148, 103422	3.3	20
163	Numerical modeling for accurate prediction of strain localization in hole expansion of a steel sheet. <i>International Journal of Solids and Structures</i> , <b>2019</b> , 156-157, 107-118	3.1	20
162	Hot Press Forming of Tailor Welded Blank: Experiments and FE Modeling. <i>ISIJ International</i> , <b>2012</b> , 52, 2059-2068	1.7	20
161	Modified Kocks-Mecking-Estrin Model to Account Nonlinear Strain Hardening. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2019</b> , 50, 513-517	2.3	20
160	Evaluation of Springback for DP980 S Rail Using Anisotropic Hardening Models. <i>Jom</i> , <b>2016</b> , 68, 1850-1857	1.1	19
159	Anisotropy and Formability <b>2007</b> , 143-173		19
158	Advances in anisotropy of plastic behaviour and formability of sheet metals. <i>International Journal of Material Forming</i> , <b>2020</b> , 13, 749-787	2	19
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156	Measurement of the strength differential effect of DP980 steel sheet and experimental validation using pure bending test. <i>Journal of Materials Processing Technology</i> , <b>2018</b> , 256, 247-253	5.3	18

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