

Frederic Barlat

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Finite element implementation of hydrostatic pressure-sensitive plasticity and its application to distortional hardening model and sheet metal forming simulations. <i>Journal of Materials Processing Technology</i> , 2022 , 302, 117494	5.3	4
297	Effect of hydrostatic stress on the strength differential effect in low-carbon steel sheet. <i>International Journal of Material Forming</i> , 2022 , 15, 1	2	1
296	Inverse identification of large strain plasticity using the hydraulic bulge-test and full-field measurements. <i>International Journal of Solids and Structures</i> , 2022 , 242, 111532	3.1	1
295	A new concept for continuum distortional plasticity. <i>International Journal of Plasticity</i> , 2022 , 155, 103303	3.6	1
294	Analytical Approach to Failure Determination of Advanced High-Strength Steel in Stretch-Bending Mode. <i>Steel Research International</i> , 2021 , 92, 2000124	1.6	
293	Characterization of dynamic hardening behavior at intermediate strain rates using the virtual fields method. <i>Mechanics of Materials</i> , 2021 , 162, 104101	3.3	0
292	Calibration of a strain path change model for a dual phase steel. <i>International Journal of Mechanical Sciences</i> , 2021 , 194, 106217	5.5	2
291	Performance review of various uncoupled fracture criteria for TRIP steel sheet. <i>International Journal of Mechanical Sciences</i> , 2021 , 195, 106269	5.5	6
290	On the fracture characteristics of advanced high strength steels during hydraulic bulge test. <i>International Journal of Mechanical Sciences</i> , 2021 , 190, 106032	5.5	7
289	The formability of twinning-induced plasticity steels predicted on the base of Marciniak-Kuczynski theory. <i>Journal of Materials Processing Technology</i> , 2021 , 287, 116496	5.3	2
288	A Plasticity Framework for Forming Applications. <i>Minerals, Metals and Materials Series</i> , 2021 , 201-207	0.3	
287	Dynamic hardening properties identification utilizing acceleration data by the Virtual Fields Method. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 967, 012053	0.4	
286	Reverse-loading coefficients identification for updated homogeneous anisotropic hardening model. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 967, 012014	0.4	
285	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> , 2020 , 148, 103422	3.3	20
284	Experimental and theoretical plasticity analyses of steel materials deformed under a nonlinear strain path. <i>International Journal of Mechanical Sciences</i> , 2020 , 182, 105770	5.5	11
283	Distortional plasticity framework with application to advanced high strength steel. <i>International Journal of Solids and Structures</i> , 2020 , 202, 947-962	3.1	24
282	Fracture characteristics of advanced high strength steels during hole expansion test. <i>International Journal of Fracture</i> , 2020 , 224, 217-233	2.3	7

281	Material Modeling in High Strain Range and Forming Limit Analysis for 6000 Series Aluminum Alloy Sheet. <i>Procedia Manufacturing</i> , 2020 , 47, 1270-1273	1.5	1
280	Calibration of Distortional Plasticity Framework and Application to U-draw Bending Simulations. <i>ISIJ International</i> , 2020 , 60, 2927-2941	1.7	3
279	Anisotropic Plasticity and Application to Plane Stress 2020 , 79-99		
278	Validation of homogeneous anisotropic hardening model using non-linear strain path experiments. <i>International Journal of Mechanical Sciences</i> , 2020 , 183, 105769	5.5	14
277	Inverse identification strategies for the characterization of transformation-based anisotropic plasticity models with the non-linear VFM. <i>International Journal of Mechanical Sciences</i> , 2020 , 173, 105422	5.5	16
276	Influence of a Hydrostatic Pressure Shift on the Flow Stress in Sheet Metal. <i>Procedia Manufacturing</i> , 2020 , 47, 1245-1249	1.5	3
275	Comment on Prediction of strain distribution and four, six, or eight ears depending on single-crystal orientation using a new single crystal criterion <i>International Journal of Material Forming</i> , 2020 , 13, 853-854	2	1
274	Advances in anisotropy of plastic behaviour and formability of sheet metals. <i>International Journal of Material Forming</i> , 2020 , 13, 749-787	2	19
273	Numerical integration algorithm of updated homogeneous anisotropic hardening model through finite element framework. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 372, 113449	5.7	13
272	Fracture assessment in dual phase and transformation-induced plasticity steels during 3-point bending. <i>Theoretical and Applied Fracture Mechanics</i> , 2020 , 110, 102834	3.7	2
271	Determining the coefficients of a homogeneous anisotropic hardening model for ultrathin steel sheets. <i>International Journal of Mechanical Sciences</i> , 2019 , 157-158, 428-438	5.5	12
270	Failure characteristics of advanced high strength steels at macro and micro scales. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 754, 411-427	5.3	10
269	Advanced constitutive model for repeated stress relaxation accounting for transient mobile dislocation density and internal stress. <i>Mechanics of Materials</i> , 2019 , 133, 138-153	3.3	18
268	Numerical modeling for accurate prediction of strain localization in hole expansion of a steel sheet. <i>International Journal of Solids and Structures</i> , 2019 , 156-157, 107-118	3.1	20
267	Strain path changes in aluminum 2019 ,		1
266	Failure of DP and TRIP steel sheets in different deformation modes 2019 ,		4
265	Multi-Coefficient Optimization of Homogeneous Anisotropic Hardening Model for Ahss. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 651, 012018	0.4	2
264	Modified Kocks-Mecking-Strain Model to Account Nonlinear Strain Hardening. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 513-517	2.3	20

263	Identification of Dynamic Flow Stress Curves Using the Virtual Fields Methods: Theoretical Feasibility Analysis. <i>Metals and Materials International</i> , 2018 , 24, 351-361	2.4	5
262	Measurement of the strength differential effect of DP980 steel sheet and experimental validation using pure bending test. <i>Journal of Materials Processing Technology</i> , 2018 , 256, 247-253	5.3	18
261	A general linear method to evaluate the hardening behaviour of metals at large strain with full-field measurements. <i>Strain</i> , 2018 , 54, e12265	1.7	23
260	Deformation-induced anisotropy of uniaxially prestrained steel sheets. <i>International Journal of Solids and Structures</i> , 2018 , 134, 20-29	3.1	32
259	Asymmetric rolling of interstitial free steel sheets: Microstructural evolution and mechanical properties. <i>Journal of Manufacturing Processes</i> , 2018 , 31, 583-592	5	21
258	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> , 2018 , 151, 152-164	3.1	28
257	A crystal plasticity model for describing the anisotropic hardening behavior of steel sheets during strain-path changes. <i>International Journal of Plasticity</i> , 2018 , 111, 85-106	7.6	23
256	Advanced Constitutive Modeling for Application to Sheet Forming. <i>Journal of Physics: Conference Series</i> , 2018 , 1063, 012002	0.3	3
255	Prediction of plastic flow localization with shell element in thick AHSS sheets. <i>Procedia Manufacturing</i> , 2018 , 15, 861-868	1.5	1
254	Twist springback characteristics of dual-phase steel sheet after non-axisymmetric deep drawing. <i>International Journal of Material Forming</i> , 2017 , 10, 267-278	2	9
253	Mechanical, microstructural behaviour and modelling of dual phase steels under complex deformation paths. <i>International Journal of Plasticity</i> , 2017 , 93, 269-290	7.6	36
252	Characterization of fracture in medium Mn steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 687, 200-210	5.3	48
251	Piecewise linear approximation of nonlinear unloading-reloading behaviors using a multi-surface approach. <i>International Journal of Plasticity</i> , 2017 , 93, 112-136	7.6	31
250	Investigation of plastic strain rate under strain path changes in dual-phase steel using microstructure-based modeling. <i>International Journal of Plasticity</i> , 2017 , 93, 89-111	7.6	27
249	Crystal plasticity finite element analysis of ferritic stainless steel for sheet formability prediction. <i>International Journal of Plasticity</i> , 2017 , 93, 26-45	7.6	29
248	Effect of Rolling Parameters on Surface Strain Variation in Hot Strip Rolling. <i>Steel Research International</i> , 2017 , 88, 1600492	1.6	2
247	Constitutive modeling for path-dependent behavior and its influence on twist springback. <i>International Journal of Plasticity</i> , 2017 , 93, 64-88	7.6	27
246	Mechanism of the Bauschinger effect in Al-Ge-Si alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 684, 353-372	5.3	14

245	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> , 2017 , 42, 6965-6977	6.7	27
244	Material modeling of 6016-O and 6016-T4 aluminum alloy sheets and application to hole expansion forming simulation. <i>International Journal of Plasticity</i> , 2017 , 93, 164-186	7.6	99
243	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> , 2017 , 93, 229-250	7.6	23
242	A comparative study between micro- and macro-mechanical constitutive models developed for complex loading scenarios. <i>International Journal of Plasticity</i> , 2017 , 93, 212-228	7.6	22
241	Experimental Verification of the Tension-Compression Asymmetry of the Flow Stresses of a High Strength Steel Sheet. <i>Procedia Engineering</i> , 2017 , 207, 1976-1981		4
240	Measurement and Analysis of the Elastic-Plastic Deformation Behavior of an Ultra-thin Austenitic Stainless Steel Sheet Subjected to In-plane Reverse Loading. <i>Procedia Engineering</i> , 2017 , 207, 1964-1969		2
239	Characterization of dynamic hardening behavior using acceleration information. <i>Procedia Engineering</i> , 2017 , 207, 245-250		1
238	Modeling of localization and fracture phenomena in strain and stress space for sheet metal forming. <i>International Journal of Material Forming</i> , 2016 , 9, 573-584	2	45
237	Mechanical property of magnesium alloy sheet with hardening deterioration at warm temperatures and its application for failure analysis: Part I - property characterization. <i>International Journal of Material Forming</i> , 2016 , 9, 277-285	2	2
236	Parameter reduction for the Yld2004-18p yield criterion. <i>International Journal of Material Forming</i> , 2016 , 9, 175-178	2	26
235	Experimental assessment of nonlinear elastic behaviour of dual-phase steels and application to springback prediction. <i>International Journal of Mechanical Sciences</i> , 2016 , 117, 1-15	5.5	25
234	Identification of nonlinear kinematic hardening constitutive model parameters using the virtual fields method for advanced high strength steels. <i>International Journal of Solids and Structures</i> , 2016 , 102-103, 30-43	3.1	13
233	Probing Formability Improvement of Ultra-thin Ferritic Stainless Steel Bipolar Plate of PEMFC in Non-conventional Forming Process. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 4160-4174	2.3	13
232	Numerical investigation of the post-necking behavior of aluminum sheets in the presence of geometrical and material inhomogeneities. <i>International Journal of Solids and Structures</i> , 2016 , 102-103, 56-65	3.1	16
231	Advanced constitutive modeling and application to industrial forming processes. <i>MATEC Web of Conferences</i> , 2016 , 80, 15013	0.3	4
230	Advanced constitutive modeling of AHSS sheets for application to springback prediction after U-draw double stamping process. <i>Journal of Physics: Conference Series</i> , 2016 , 734, 032029	0.3	1
229	Evaluation of Springback for DP980 S Rail Using Anisotropic Hardening Models. <i>Jom</i> , 2016 , 68, 1850-1857.	1	19
228	Effect of slide motion on springback in 2-D draw bending for AHSS. <i>International Journal of Material Forming</i> , 2016 , 9, 313-326	2	5

227	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> , 2016 , 80, 334-347	3.1	22
226	Modelling and sensitivity analysis of twist springback in deep drawing of dual-phase steel. <i>Materials and Design</i> , 2016 , 90, 204-217	8.1	28
225	Examination and modeling of void growth kinetics in modern high strength dual phase steels during uniaxial tensile deformation. <i>Materials Chemistry and Physics</i> , 2016 , 172, 54-61	4.4	8
224	Parameter identification of the homogeneous anisotropic hardening model using the virtual fields method. <i>International Journal of Material Forming</i> , 2016 , 9, 691-696	2	6
223	Effect of martensitic phase transformation on the behavior of 304 austenitic stainless steel under tension. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 649, 174-183	5.3	52
222	Identification of the YLD2000-2D Model with the Virtual Fields Method. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016 , 51-57	0.3	1
221	Anisotropic Yield Conditions in Mathematical Theory of Plasticity. <i>Journal of the Japan Society for Technology of Plasticity</i> , 2016 , 57, 230-243	0.3	7
220	Modeling of the Mechanical Response During Reversal Shear Loading: Application to Steels. <i>Steel Research International</i> , 2016 , 87, 850-858	1.6	1
219	Thermal effects on the enhanced ductility in non-monotonic uniaxial tension of DP780 steel sheet. <i>Metals and Materials International</i> , 2016 , 22, 968-973	2.4	11
218	Prediction of part shape and associated material properties in hot-press forming using Unite element analysis. <i>Journal of Physics: Conference Series</i> , 2016 , 734, 032024	0.3	
217	Advances in Constitutive Modeling of Plasticity for Forming Applications. <i>Key Engineering Materials</i> , 2016 , 725, 3-14	0.4	3
216	Transformation kinetics and density models of quenching and partitioning (Q&P) steels. <i>Acta Materialia</i> , 2016 , 109, 394-404	8.4	28
215	Mechanical behavior of low carbon steel subjected to strain path changes: Experiments and modeling. <i>Acta Materialia</i> , 2016 , 111, 305-314	8.4	46
214	Effect of nonlinear multi-axial elasticity and anisotropic plasticity on quasi-static dent properties of automotive steel sheets. <i>International Journal of Solids and Structures</i> , 2016 , 87, 254-266	3.1	15
213	Application of central composite design for optimization of two-stage forming process using ultra-thin ferritic stainless steel. <i>Metals and Materials International</i> , 2016 , 22, 276-287	2.4	12
212	Thermomechanical response of a TWIP steel during monotonic and non-monotonic uniaxial loading. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 674, 276-285	5.3	16
211	Observations on the Nonlinear Unloading Behavior of Advanced High Strength Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 18-22	2.3	27
210	Modeling of the mechanical behavior and texture evolution in Zn alloys during reverse shear loading. <i>Journal of Materials Processing Technology</i> , 2015 , 224, 143-148	5.3	7

209	Properties controlling the bend-assisted fracture of AHSS. <i>International Journal of Plasticity</i> , 2015 , 75, 100-120	7.6	22
208	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> , 2015 , 97, 435-444	8.4	60
207	Void coalescence and fracture behavior of notched and un-notched tensile tested specimens in fine grain dual phase steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 644, 210-217	5.3	15
206	Modeling of forming limit for multilayer sheets based on strain-rate potentials. <i>International Journal of Plasticity</i> , 2015 , 75, 63-99	7.6	14
205	Determination of Anisotropic Yield Coefficients by a Data-Driven Multiobjective Evolutionary and Genetic Algorithm. <i>Materials and Manufacturing Processes</i> , 2015 , 30, 403-413	4.1	12
204	Formability of AHSS under an Attach/Detach Forming Mode. <i>Steel Research International</i> , 2015 , 86, 98-109	7.6	12
203	Anisotropic Yield Functions 2015 , 43-48		
202	Influence of Bainite Morphology on Ductile Fracture Behavior in a 0.4C-CrMoNi Steel. <i>Steel Research International</i> , 2015 , 86, 528-535	1.6	1
201	Stress development and shape change during press-hardening process using phase-transformation-based finite element analysis. <i>International Journal of Plasticity</i> , 2015 , 73, 142-170	7.6	16
200	Stress update algorithm for enhanced homogeneous anisotropic hardening model. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015 , 286, 63-86	5.7	23
199	EBSD Study of Damage Mechanisms in a High-Strength Ferrite-Martensite Dual-Phase Steel. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 53-58	1.6	21
198	A microstructure-based model for describing the material properties of AlZn alloys during high pressure torsion. <i>International Journal of Plasticity</i> , 2015 , 68, 150-163	7.6	22
197	Effect of Stress State and Temperature on the Kinetics of Martensitic Phase Transformation in TRIP-Assisted Steel. <i>Key Engineering Materials</i> , 2015 , 651-653, 27-31	0.4	
196	Enhancement in the Modeling of Temperature and Strain Rate-Dependent Plastic Hardening Behavior of a Sheet Metal. <i>Steel Research International</i> , 2015 , 86, 902-914	1.6	2
195	Modeling the Effect of Asymmetric Rolling on Mechanical Properties of AlMg Alloys. <i>Steel Research International</i> , 2015 , 86, 922-931	1.6	2
194	Springback Reduction in Tailor Welded Blank with High Strength Differential by Using Multi-Objective Evolutionary and Genetic Algorithms. <i>Steel Research International</i> , 2015 , 86, 1391-1402	1.6	10
193	Bending Formability of Ferritic Stainless Steels for Application to Tubular Exhaust Manifolds. <i>ISIJ International</i> , 2015 , 55, 1048-1057	1.7	0
192	An extended Modified Maximum Force Criterion for the prediction of localized necking under non-proportional loading. <i>International Journal of Plasticity</i> , 2015 , 75, 189-203	7.6	42

191	Strain hardening rate sensitivity and strain rate sensitivity in TWIP steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 629, 54-59	5.3	61
190	Constitutive and friction modeling for accurate springback analysis of advanced high strength steel sheets. <i>International Journal of Plasticity</i> , 2015 , 71, 113-135	7.6	51
189	Measurement and modeling of simple shear deformation under load reversal: Application to advanced high strength steels. <i>International Journal of Mechanical Sciences</i> , 2015 , 98, 144-156	5.5	39
188	Non-isothermal kinetics model to predict accurate phase transformation and hardness of 22MnB5 boron steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 626, 67-73	5.3	31
187	Isotropic to distortional hardening transition in metal plasticity. <i>International Journal of Solids and Structures</i> , 2015 , 56-57, 11-19	3.1	26
186	Combined effects of anisotropy and tension-compression asymmetry on the torsional response of AZ31 Mg. <i>International Journal of Solids and Structures</i> , 2015 , 58, 190-200	3.1	38
185	Evaluation of biaxial flow stress based on elasto-viscoplastic self-consistent analysis of X-ray diffraction measurements. <i>International Journal of Plasticity</i> , 2015 , 66, 103-118	7.6	23
184	Mechanical behavior of Mg subjected to strain path changes: Experiments and modeling. <i>International Journal of Plasticity</i> , 2015 , 73, 171-183	7.6	76
183	Evaluation of Fracture Micromechanisms in a Fine-Grained Dual Phase Steel during Uniaxial Tensile Deformation. <i>Steel Research International</i> , 2014 , 85, 1386-1392	1.6	25
182	Material Modelling and Springback Analysis for Multi-stage Rotary Draw Bending of Thin-walled Tube Using Homogeneous Anisotropic Hardening Model. <i>Procedia Engineering</i> , 2014 , 81, 1228-1233		5
181	A pragmatic approach to accommodate in-plane anisotropy in forming limit diagrams. <i>Mechanics Research Communications</i> , 2014 , 62, 5-17	2.2	9
180	On twist springback prediction of asymmetric tube in rotary draw bending with different constitutive models. <i>International Journal of Mechanical Sciences</i> , 2014 , 89, 311-322	5.5	24
179	Determination of Anisotropic Plastic Constitutive Parameters Using the Virtual Fields Method. <i>Experimental Mechanics</i> , 2014 , 54, 1189-1204	2.6	53
178	A Novel Multi-objective Genetic Algorithms-Based Calculation of Hill's Coefficients. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 2704-2707	2.3	14
177	Damage mechanism and modeling of void nucleation process in a ferrite-bartensite dual phase steel. <i>Engineering Fracture Mechanics</i> , 2014 , 127, 97-103	4.2	32
176	About the influence of hydrostatic pressure on the yielding and flow of metallic polycrystals. <i>Journal of the Mechanics and Physics of Solids</i> , 2014 , 67, 87-99	5	8
175	New interpretation of cyclic Swift effects. <i>European Journal of Mechanics, A/Solids</i> , 2014 , 44, 82-90	3.7	8
174	Enhancements of homogenous anisotropic hardening model and application to mild and dual-phase steels. <i>International Journal of Plasticity</i> , 2014 , 58, 201-218	7.6	110

173	Correlation between swift effects and tension-compression asymmetry in various polycrystalline materials. <i>Journal of the Mechanics and Physics of Solids</i> , 2014 , 70, 104-115	5	28
172	Thermo-mechanical-metallurgical modeling for hot-press forming in consideration of the prior austenite deformation effect. <i>International Journal of Plasticity</i> , 2014 , 58, 154-183	7.6	45
171	Influence of Tempering Temperature on Low Cycle Fatigue of High Strength Steel. <i>ISIJ International</i> , 2014 , 54, 979-984	1.7	6
170	Numerical Simulation of the Mechanical Response During Strain Path Change: Application to Zn Alloys. <i>Procedia Engineering</i> , 2014 , 81, 1300-1305		1
169	Design of high strength differential TWB to enhance drawability: FE study and optimization. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014 , 15, 2273-2283	1.7	4
168	Simulation of Thermal Distortion in Hot Press Forming with Dissimilar Material TWB. <i>Advanced Materials Research</i> , 2014 , 1063, 330-333	0.5	
167	U-draw Bending of DP780 in Non-conventional Drawing Mode Using Direct-drive Digital Servo-press. <i>Procedia Engineering</i> , 2014 , 81, 987-992		5
166	A Semi-Analytic Model to Predict and Compensate Springback in the 3D Stretch Bending Process. <i>Steel Research International</i> , 2014 , 85, 697-709	1.6	3
165	Meso-Scopic Analysis of Strain Path Change Effect on the Hardening Behavior of Dual-Phase Steel. <i>Steel Research International</i> , 2014 , 85, 1047-1057	1.6	9
164	Extension of strain-life equation for low-cycle fatigue of sheet metals using anisotropic yield criteria and distortional hardening model. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2014 , 37, 977-991	3	5
163	Multi-Objective Genetic Algorithm to Optimize Variable Drawbead Geometry for Tailor Welded Blanks Made of Dissimilar Steels. <i>Steel Research International</i> , 2014 , 85, 1597-1607	1.6	15
162	Prediction of Ridging by 3-Dimensional Texture in Ferritic Stainless Steels. <i>Key Engineering Materials</i> , 2014 , 622-623, 72-76	0.4	
161	Influence of Contact Friction on the Experimental Determination of the Balanced Biaxial Strain-Ratio Using the Disc Compression Test. <i>Key Engineering Materials</i> , 2014 , 611-612, 529-535	0.4	
160	Continuous strain path change simulations for sheet metal. <i>Computational Materials Science</i> , 2014 , 82, 286-292	3.2	15
159	In honor of Kwansoo Chung. <i>International Journal of Plasticity</i> , 2014 , 58, 1-2	7.6	
158	Asymmetric rolling of thin AA-5182 sheets: Modelling and experiments. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 603, 150-159	5.3	30
157	Correlations between nanoindentation hardness and macroscopic mechanical properties in DP980 steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 597, 431-439	5.3	104
156	Parameter Determination of Anisotropic Yield Criterion. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2014 , 253-257	0.3	

155	Numerical procedures for predicting localization in sheet metals using crystal plasticity. <i>Computational Materials Science</i> , 2013 , 72, 107-115	3.2	11
154	A dislocation-based hardening model incorporated into an anisotropic hardening approach. <i>Computational Materials Science</i> , 2013 , 79, 570-583	3.2	27
153	Balanced Biaxial Testing of Advanced High Strength Steels in Warm Conditions. <i>Experimental Mechanics</i> , 2013 , 53, 1681-1692	2.6	27
152	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> , 2013 , 45, 140-159	7.6	70
151	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> , 2013 , 44, 4475-4479	2.3	22
150	Characterization of the post-necking strain hardening behavior using the virtual fields method. <i>International Journal of Solids and Structures</i> , 2013 , 50, 3829-3842	3.1	135
149	Formability prediction of advanced high strength steels using constitutive models characterized by uniaxial and biaxial experiments. <i>Journal of Materials Processing Technology</i> , 2013 , 213, 1929-1942	5.3	50
148	Formability of austenitic and ferritic stainless steels at warm forming temperature. <i>International Journal of Mechanical Sciences</i> , 2013 , 75, 94-109	5.5	41
147	Experimental and theoretical formability analysis using strain and stress based forming limit diagram for advanced high strength steels. <i>Materials & Design</i> , 2013 , 51, 756-766		117
146	Forming Limit Curves and Forming Limit Stress Curves for Advanced High Strength Steels. <i>Materials Science Forum</i> , 2013 , 773-774, 109-114	0.4	1
145	New convex yield functions for orthotropic metal plasticity. <i>International Journal of Non-Linear Mechanics</i> , 2013 , 51, 97-111	2.8	93
144	Nonlinear elastic behaviors of low and high strength steels in unloading and reloading. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 562, 161-171	5.3	66
143	Extension of homogeneous anisotropic hardening model to cross-loading with latent effects. <i>International Journal of Plasticity</i> , 2013 , 46, 130-142	7.6	144
142	A crystallographic dislocation model for describing hardening of polycrystals during strain path changes. Application to low carbon steels. <i>International Journal of Plasticity</i> , 2013 , 46, 54-69	7.6	113
141	New interpretation of monotonic Swift effects: Role of tension/compression asymmetry. <i>Mechanics of Materials</i> , 2013 , 57, 42-52	3.3	16
140	Strain rate dependent tensile behavior of advanced high strength steels: Experiment and constitutive modeling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 559, 222-231	5.3	82
139	Strain hardening response and modeling of EDDQ and DP780 steel sheet under non-linear strain path. <i>Mechanics of Materials</i> , 2013 , 64, 11-26	3.3	68
138	A Springback Compensation Strategy and Applications to Bending Cases. <i>Steel Research International</i> , 2013 , 84, 463-472	1.6	10

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