

Myoung-Gyu Lee

List of Publications by Year in descending order

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175
papers

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81900

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178
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178
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2394
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of adhesion strength for oxide scale grown on low carbon steel. <i>Mechanics of Advanced Materials and Structures</i> , 2023, 30, 2258-2268.	2.6	0
2	Quantitative Evaluation of Tool Wear in Cold Stamping of Ultra-High-Strength Steel Sheets. <i>Metals and Materials International</i> , 2023, 29, 327-342.	3.4	12
3	Hole Expansion Characteristics of W-Tempered 7075 Aluminum Alloy Sheet in Comparison with Peak Aged T6 Tempered Alloy Sheet. <i>Metals and Materials International</i> , 2023, 29, 157-167.	3.4	13
4	A dual-scale FE simulation of hole expansion test considering pre-damage from punching process. <i>International Journal of Solids and Structures</i> , 2022, 236-237, 111312.	2.7	1
5	Modeling crystal plasticity with an enhanced twinning-detwinning model to simulate cyclic behavior of AZ31B magnesium alloy at various temperatures. <i>International Journal of Plasticity</i> , 2022, 150, 103190.	8.8	20
6	Analysis of hydrogen trapping behaviour in plastically deformed quenching and partitioning steel in relation to microstructure evolution by phase transformation. <i>Journal of Alloys and Compounds</i> , 2022, 904, 164018.	5.5	15
7	Analyses of shearing mechanism during shear-cutting of 980MPa dual-phase steel sheets using ductile fracture modeling and simulation. <i>International Journal of Material Forming</i> , 2022, 15, .	2.0	7
8	Numerical prediction of sheared edge profiles in sheet metal trimming using ductile fracture modeling. <i>International Journal of Mechanical Sciences</i> , 2022, 219, 107109.	6.7	24
9	A fully coupled crystal plasticity-cellular automata model for predicting thermomechanical response with dynamic recrystallization in AISI 304LN stainless steel. <i>Mechanics of Materials</i> , 2022, 167, 104248.	3.2	15
10	A probabilistic mean-field and microstructure based finite element modeling for predicting mechanical and ductile fracture behavior of the cast aluminum alloy. <i>International Journal of Plasticity</i> , 2022, 154, 103299.	8.8	17
11	Experimental characterization and modeling of complex anisotropic hardening in quenching and partitioning (Q&P) steel subject to biaxial non-proportional loadings. <i>International Journal of Plasticity</i> , 2022, 156, 103347.	8.8	27
12	Recent Developments and Trends in Flexible Forming Technology. <i>International Journal of Automotive Technology</i> , 2022, 23, 741-763.	1.4	5
13	Efficient Wear Simulation Methodology for Predicting Nonlinear Wear Behavior of Tools in Sheet Metal Forming. <i>Materials</i> , 2022, 15, 4509.	2.9	6
14	Tensile behavior of single-crystal superalloy with different structured cooling holes. <i>International Journal of Mechanical Sciences</i> , 2022, 229, 107514.	6.7	15
15	Identification of strain localization-induced failure in hot-rolled steel sheets: A hybrid numerical-experimental approach to the virtual forming limit test. <i>International Journal of Mechanical Sciences</i> , 2021, 193, 106146.	6.7	4
16	Probing the Mechanism of Friction Stir Welding with ALE Based Finite Element Simulations and Its Application to Strength Prediction of Welded Aluminum. <i>Metals and Materials International</i> , 2021, 27, 650-666.	3.4	14
17	Predictive dual-scale finite element simulation for hole expansion failure of ferrite-bainite steel. <i>International Journal of Plasticity</i> , 2021, 136, 102900.	8.8	25
18	Tailored Graphene Micropatterns by Wafer-Scale Direct Transfer for Flexible Chemical Sensor Platform. <i>Advanced Materials</i> , 2021, 33, e2004827.	21.0	40

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19	Mechanical properties of solution heat treated Al-Zn-Mg-Cu (7075) alloy under different cooling conditions: Analysis with full field measurement and finite element modeling. <i>Journal of Alloys and Compounds</i> , 2021, 856, 158180.	5.5	32
20	Numerically Efficient Sheet Metal Forming Simulations in Consideration of Tool Deformation. <i>International Journal of Automotive Technology</i> , 2021, 22, 69-79.	1.4	4
21	Artificial Neural Network for Modeling the Tensile Properties of Ferrite-Pearlite Steels: Relative Importance of Alloying Elements and Microstructural Factors. <i>Metals and Materials International</i> , 2021, 27, 3935-3944.	3.4	12
22	Tool Wear Prediction in the Forming of Automotive DP980 Steel Sheet Using Statistical Sensitivity Analysis and Accelerated U-Bending Based Wear Test. <i>Metals</i> , 2021, 11, 306.	2.3	9
23	New procedure for determining the strain hardening behavior of sheet metals at large strains using the curve fitting method. <i>Mechanics of Materials</i> , 2021, 154, 103729.	3.2	14
24	Investigation of the unloading yield effect in 7075 Al alloys based on microstructural and digital image correlation analysis. <i>Materials Characterization</i> , 2021, 173, 110963.	4.4	6
25	Predictive integrated numerical approach for modeling spatio-temporal microstructure evolutions and grain size dependent phase transformations in steels. <i>International Journal of Plasticity</i> , 2021, 139, 102952.	8.8	11
26	Fully Implicit Stress Update Algorithm for Distortion-Based Anisotropic Hardening with Cross-Loading Effect: Comparative Algorithmic Study and Application to Large-Size Forming Problem. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5509.	2.5	5
27	Development of analytical strength estimator for self-piercing rivet joints through observation of finite element simulations. <i>International Journal of Mechanical Sciences</i> , 2021, 202-203, 106499.	6.7	13
28	Theoretical analysis, finite element modelling, and experimental investigation of manufacturing convoluted spiral tubes through free bending forming technology. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 117, 279-293.	3.0	4
29	Prediction of anisotropic strengths of steel plate after prior bending-reverse bending deformation: Application of distortional hardening model. <i>International Journal of Mechanical Sciences</i> , 2021, 204, 106512.	6.7	6
30	Effect of plastic anisotropy and Portevin-Le Chatelier bands on hole-expansion in AA7075 sheets in -T6 and -W tempers. <i>Journal of Materials Processing Technology</i> , 2021, 296, 117211.	6.3	20
31	Observation of Portevin-le Chatelier effect in aluminum alloy 7075-w under a heterogeneous stress field. <i>Scripta Materialia</i> , 2021, 205, 114178.	5.2	11
32	Return mapping with a line search method for integrating stress of the distortional hardening law with differential softening. <i>Computers and Structures</i> , 2021, 257, 106652.	4.4	10
33	Finite element-based virtual fields method with pseudo-real deformation fields for identifying constitutive parameters. <i>International Journal of Solids and Structures</i> , 2021, 233, 111204.	2.7	21
34	A Review on Friction and Lubrication in Automotive Metal Forming: Experiment and Modeling. <i>International Journal of Automotive Technology</i> , 2021, 22, 1743-1761.	1.4	11
35	Mechanical Properties and Formability of Heat-Treated 7000-Series High-Strength Aluminum Alloy: Experiments and Finite Element Modeling. <i>Metals and Materials International</i> , 2020, 26, 682-694.	3.4	26
36	Analysis of friction behaviour under oscillating forming process using T-shape compression test and finite element simulation. <i>Journal of Materials Processing Technology</i> , 2020, 275, 116327.	6.3	5

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37	Predicting forming limit diagrams for magnesium alloys using crystal plasticity finite elements. <i>International Journal of Plasticity</i> , 2020, 126, 102630.	8.8	36
38	Mechanical properties, springback, and formability of W-temper and peak aged 7075 aluminum alloy sheets: Experiments and modeling. <i>International Journal of Mechanical Sciences</i> , 2020, 170, 105344.	6.7	67
39	Influence of Evolution in Anisotropy During Strain Path Change on Failure Limits of Sheet Metals. <i>Metals and Materials International</i> , 2020, 27, 3225.	3.4	7
40	A virtual fields method for identifying anisotropic elastic constants of fiber reinforced composites using a single tension test: Theory and validation. <i>Composites Part B: Engineering</i> , 2020, 200, 108338.	12.0	19
41	Modeling differential permanent softening under strain-path changes in sheet metals using a modified distortional hardening model. <i>International Journal of Plasticity</i> , 2020, 133, 102789.	8.8	19
42	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. <i>International Journal of Mechanical Sciences</i> , 2020, 187, 105913.	6.7	11
43	Formability and fracture in deep drawing sheet metals: Extended studies for pre-strained anisotropic thin sheets. <i>International Journal of Mechanical Sciences</i> , 2020, 170, 105346.	6.7	33
44	Measurement of Weld Zone Properties of Laser-Welded Tailor-Welded Blanks and Its Application to Deep Drawing. <i>International Journal of Automotive Technology</i> , 2020, 21, 615-622.	1.4	9
45	Modelling continuous dynamic recrystallization of aluminum alloys based on the polycrystal plasticity approach. <i>International Journal of Plasticity</i> , 2020, 131, 102710.	8.8	41
46	Study on Plastic Response Under Biaxial Tension and Its Correlation with Formability for Wrought Magnesium Alloys. <i>Jom</i> , 2020, 72, 2568-2577.	1.9	7
47	Computational wrapping: A universal method to wrap 3D-curved surfaces with nonstretchable materials for conformal devices. <i>Science Advances</i> , 2020, 6, eaax6212.	10.3	39
48	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.	2.7	31
49	Improved formability prediction by modeling evolution of anisotropy of steel sheets. <i>International Journal of Solids and Structures</i> , 2019, 156-157, 263-280.	2.7	16
50	Equal channel angular bending as a new severe plastic deformation process: Application to thin Mg-3Al-1Zn sheet. <i>Materials Letters</i> , 2019, 255, 126514.	2.6	6
51	Effect of shear deformation on plasticity, recrystallization mechanism and texture evolution of Mg-3Al-1Zn alloy sheet: Experiment and coupled finite element-VPSC simulation. <i>Journal of Alloys and Compounds</i> , 2019, 805, 138-152.	5.5	33
52	Characterization of Plastic Deformation in Lath Martensitic Steel by Micro-pillar Compression Focused on Sub-block and Lath Boundaries. <i>Jom</i> , 2019, 71, 3536-3542.	1.9	1
53	Application of Combined W-Temper and Cold Forming Technology to High-Strength Aluminum Alloy Automotive Parts. <i>Jom</i> , 2019, 71, 4393-4404.	1.9	18
54	Effect of Anisotropic Plasticity on the Prediction of Formability of E-Form Magnesium Alloy Sheet. <i>International Journal of Automotive Technology</i> , 2019, 20, 1183-1193.	1.4	7

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55	Pulsed Electric Current V-Bending Springback of AZ31B Magnesium Alloy Sheets. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 2720-2731.	2.2	17
56	Determining the coefficients of a homogeneous anisotropic hardening model for ultrathin steel sheets. International Journal of Mechanical Sciences, 2019, 157-158, 428-438.	6.7	23
57	Extremely Versatile Deformability beyond Materiality: A New Material Platform through Simple Cutting for Rugged Batteries. Advanced Engineering Materials, 2019, 21, 1900206.	3.5	15
58	Identification of mechanical responses of steel sheets under non-proportional loadings using dislocation-density based crystal plasticity model. International Journal of Mechanical Sciences, 2019, 155, 461-474.	6.7	19
59	Meso-scale modeling and simulation for reduced activation ferritic/martensitic steel. Fusion Engineering and Design, 2019, 146, 232-235.	1.9	1
60	Practical microstructure-informed dual-scale simulation for predicting hole expansion failure of hyper-burring steel. International Journal of Mechanical Sciences, 2019, 156, 297-311.	6.7	14
61	An effective Schmid factor in consideration of combined normal and shear stresses for slip/twin variant selection of Mg-3Al-1Zn alloy. Scripta Materialia, 2019, 167, 51-55.	5.2	42
62	Advanced constitutive model for repeated stress relaxation accounting for transient mobile dislocation density and internal stress. Mechanics of Materials, 2019, 133, 138-153.	3.2	27
63	A polycrystal plasticity based thermo-mechanical-dynamic recrystallization coupled modeling method and its application to light weight alloys. International Journal of Plasticity, 2019, 116, 159-191.	8.8	39
64	Modeling and experiment on microstructure evolutions and mechanical properties in grade 600â€™MPa reinforcing steel rebar subjected to TempCore process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 745, 39-52.	5.6	25
65	Identification of Dynamic Flow Stress Curves Using the Virtual Fields Methods: Theoretical Feasibility Analysis. Metals and Materials International, 2018, 24, 351-361.	3.4	8
66	Split-Ring Springback Simulations with the Non-associated Flow Rule and Evolutionary Elastic-Plasticity Models. Jom, 2018, 70, 906-911.	1.9	2
67	Fracture prediction based on a two-surface plasticity law for the anisotropic magnesium alloys AZ31 and ZE10. International Journal of Plasticity, 2018, 105, 1-23.	8.8	30
68	Analysis of real contact area and re-lubrication in oscillating bulk forming process by corrosion method. Journal of Materials Processing Technology, 2018, 253, 178-194.	6.3	10
69	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.	2.7	46
70	A Coupled Crystal Plasticity and Anisotropic Yield Function Model to Identify the Anisotropic Plastic Properties and Friction Behavior of an AA 3003 Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 282-294.	2.2	10
71	Effect of deformation induced nonlinear and anisotropic elasto-plasticity on sheet forming simulations. Journal of Physics: Conference Series, 2018, 1063, 012029.	0.4	0
72	Experimental and finite element analysis on oscillating cold forming in consideration of nonlinear loading-unloading-reloading behavior. Journal of Manufacturing Processes, 2018, 36, 520-534.	5.9	8

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73	Basics of Continuum Plasticity. , 2018, , .		6
74	Robust multi objective optimization of anisotropic yield function coefficients. Materials and Design, 2018, 156, 184-197.	7.0	10
75	Advances in Plastic Forming of Metals. Metals, 2018, 8, 272.	2.3	4
76	Grain Scale Representative Volume Element Simulation to Investigate the Effect of Crystal Orientation on Void Growth in Single and Multi-Crystals. Metals, 2018, 8, 436.	2.3	8
77	Influence of dynamic loading on failure behavior of spot welded automotive steel sheets. International Journal of Mechanical Sciences, 2018, 144, 407-426.	6.7	19
78	Influence of Yield Stress Determination in Anisotropic Hardening Model on Springback Prediction in Dual-Phase Steel. Jom, 2018, 70, 1560-1566.	1.9	7
79	Piecewise linear approximation of nonlinear unloading-reloading behaviors using a multi-surface approach. International Journal of Plasticity, 2017, 93, 112-136.	8.8	42
80	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.	8.8	37
81	Distortional hardening concept for modeling anisotropic/asymmetric plastic behavior of AZ31B magnesium alloy sheets. International Journal of Plasticity, 2017, 94, 74-97.	8.8	42
82	Crystal plasticity finite element analysis of ferritic stainless steel for sheet formability prediction. International Journal of Plasticity, 2017, 93, 26-45.	8.8	41
83	Formability evaluation for hot-rolled HB780 steel sheet based on 3-D non-quadratic yield function. Metals and Materials International, 2017, 23, 519-531.	3.4	3
84	An RVE procedure for micromechanical prediction of mechanical behavior of dual-phase steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 695, 101-111.	5.6	40
85	Electroplastic behaviour in an aluminium alloy and dislocation density based modelling. Materials and Design, 2017, 124, 131-142.	7.0	77
86	Constitutive modeling for path-dependent behavior and its influence on twist springback. International Journal of Plasticity, 2017, 93, 64-88.	8.8	45
87	Formability assessment and failure prediction of laser welded dual phase steel blanks using anisotropic plastic properties. International Journal of Mechanical Sciences, 2017, 126, 203-221.	6.7	33
88	Simple and effective failure analysis of dissimilar resistance spot welded advanced high strength steel sheets. International Journal of Mechanical Sciences, 2017, 121, 76-89.	6.7	27
89	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.	7.1	48
90	Failure prediction of AZ31B magnesium alloy sheet based on a micro-mechanical void model incorporating the asymmetric plasticity constitutive law. International Journal of Plasticity, 2017, 94, 98-121.	8.8	17

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91	Practical failure analysis of resistance spot welded advanced high-strength steel sheets. <i>International Journal of Plasticity</i> , 2017, 94, 122-147.	8.8	29
92	Electric current-assisted deformation behavior of Al-Mg-Si alloy under uniaxial tension. <i>International Journal of Plasticity</i> , 2017, 94, 148-170.	8.8	106
93	Anisotropic Hardening Behaviour and Springback of Advanced High-Strength Steels. <i>Metals</i> , 2017, 7, 480.	2.3	24
94	Evolutionary anisotropy and flow stress in advanced high strength steels under loading path changes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 672, 65-77.	5.6	29
95	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.	3.4	12
96	Electrically assisted tensile behavior of complex phase ultra-high strength steel. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2016, 3, 325-333.	4.9	13
97	Prediction of part shape and associated material properties in hot-press forming using Finite element analysis. <i>Journal of Physics: Conference Series</i> , 2016, 734, 032024.	0.4	0
98	Transformation kinetics and density models of quenching and partitioning (Q&P) steels. <i>Acta Materialia</i> , 2016, 109, 394-404.	7.9	32
99	Experimental and Numerical Study on the Deformation Mechanism in AZ31B Mg Alloy Sheets Under Pulsed Electric-Assisted Tensile and Compressive Tests. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 2783-2794.	2.2	21
100	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.	2.7	21
101	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.	3.4	14
102	Spallation analysis of oxide scale on low carbon steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 676, 385-394.	5.6	8
103	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.	5.6	19
104	Multiscale Analysis of Open-Cell Aluminum Foam for Impact Energy Absorption. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 3977-3984.	2.5	8
105	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.	2.2	16
106	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.	0.4	1
107	Evaluation of Springback for DP980 S Rail Using Anisotropic Hardening Models. <i>Jom</i> , 2016, 68, 1850-1857.	1.9	26
108	Effect of slide motion on springback in 2-D draw bending for AHSS. <i>International Journal of Material Forming</i> , 2016, 9, 313-326.	2.0	8

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109	Constitutive modelling of high strength titanium alloy Ti-6Al-4V for sheet forming applications at room temperature. <i>International Journal of Solids and Structures</i> , 2016, 80, 334-347.	2.7	30
110	Modeling and Characterization of Texture Evolution in Twist Extrusion. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 1248-1260.	2.2	17
111	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.	1.8	2
112	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.	1.8	13
113	Bending Formability of Ferritic Stainless Steels for Application to Tubular Exhaust Manifolds. <i>ISIJ International</i> , 2015, 55, 1048-1057.	1.4	3
114	Simple shear model of twist extrusion and its deviations. <i>Metals and Materials International</i> , 2015, 21, 569-579.	3.4	22
115	Constitutive and friction modeling for accurate springback analysis of advanced high strength steel sheets. <i>International Journal of Plasticity</i> , 2015, 71, 113-135.	8.8	66
116	Hydroformability assessment of AA6063 tubes using the polar effective plastic strain diagram. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2015, 229, 647-653.	2.4	9
117	Experimental and numerical analysis of a rectangular helical coil actuator for electromagnetic bulging. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 78, 825-839.	3.0	20
118	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.	8.8	26
119	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.	2.2	28
120	Evaluation of stress integration algorithms for elastic-plastic constitutive models based on associated and non-associated flow rules. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 295, 414-445.	6.6	40
121	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.	7.9	85
122	Modeling of forming limit for multilayer sheets based on strain-rate potentials. <i>International Journal of Plasticity</i> , 2015, 75, 63-99.	8.8	17
123	Cyclic behavior of AZ31B Mg: Experiments and non-isothermal forming simulations. <i>International Journal of Plasticity</i> , 2015, 75, 39-62.	8.8	24
124	Determination of Anisotropic Yield Coefficients by a Data-Driven Multiobjective Evolutionary and Genetic Algorithm. <i>Materials and Manufacturing Processes</i> , 2015, 30, 403-413.	4.7	19
125	Formability of AHSS under an Attach-Detach Forming Mode. <i>Steel Research International</i> , 2015, 86, 98-109.	1.8	12
126	Decoupling Thermal and Electrical Effect in an Electrically Assisted Uniaxial Tensile Test Using Finite Element Analysis. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 3043-3051.	2.2	48

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127	Recent developments in hydroforming technology. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2015, 229, 572-596.	2.4	32
128	Experimental study on forming behavior of high-strength steel sheets under electromagnetic pressure. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2015, 229, 670-681.	2.4	6
129	Numerical Analysis on Electromagnetic Forming of Automotive Sheets with Flat Spiral Coil. , 2014, , .		1
130	Design of high strength differential TWB to enhance drawability: FE study and optimization. International Journal of Precision Engineering and Manufacturing, 2014, 15, 2273-2283.	2.2	4
131	Mechanical Behavior of AZ31B Mg Alloy Sheets under Monotonic and Cyclic Loadings at Room and Moderately Elevated Temperatures. Materials, 2014, 7, 1271-1295.	2.9	65
132	Frictional Behaviors of a Mild Steel and a TRIP780 Steel Under a Wide Range of Contact Stress and Sliding Speed. Journal of Tribology, 2014, 136, .	1.9	24
133	Modeling Mechanical Properties of 21-Cr Ferritic Stainless Steel with Variation of Stress Ratio. Procedia Engineering, 2014, 81, 2439-2444.	1.2	0
134	Meso-scale Analysis of Strain Path Change Effect on the Hardening Behavior of Dual-phase Steel. Steel Research International, 2014, 85, 1047-1057.	1.8	11
135	Multi-objective Genetic Algorithm to Optimize Variable Drawbead Geometry for Tailor Welded Blanks Made of Dissimilar Steels. Steel Research International, 2014, 85, 1597-1607.	1.8	20
136	Continuous strain path change simulations for sheet metal. Computational Materials Science, 2014, 82, 286-292.	3.0	18
137	Measurement of the Bauschinger behavior of sheet metals by three-point bending springback test with pre-strained strips. International Journal of Plasticity, 2014, 59, 84-107.	8.8	61
138	Phase transformation-based finite element modeling to predict strength and deformation of press-hardened tubular automotive part. International Journal of Advanced Manufacturing Technology, 2014, 70, 1787-1801.	3.0	29
139	A pragmatic approach to accommodate in-plane anisotropy in forming limit diagrams. Mechanics Research Communications, 2014, 62, 5-17.	1.8	10
140	On twist springback prediction of asymmetric tube in rotary draw bending with different constitutive models. International Journal of Mechanical Sciences, 2014, 89, 311-322.	6.7	31
141	A Novel Multi-objective Genetic Algorithms-Based Calculation of Hill's Coefficients. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 2704-2707.	2.2	16
142	In situ monitoring of structural changes in nonwoven mats under tensile loading using X-ray computer tomography. Composites Part A: Applied Science and Manufacturing, 2014, 63, 1-9.	7.6	21
143	An evolutionary anisotropic model for sheet metals based on non-associated flow rule approach. Computational Materials Science, 2014, 81, 15-29.	3.0	84
144	Thermo-mechanical-metallurgical modeling for hot-press forming in consideration of the prior austenite deformation effect. International Journal of Plasticity, 2014, 58, 154-183.	8.8	54

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145	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.	8.8	83
146	A temperature-dependent elasto-plastic constitutive model for magnesium alloy AZ31 sheets. International Journal of Plasticity, 2013, 50, 66-93.	8.8	77
147	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.	6.3	61
148	Evaluating the significance of hardening behavior and unloading modulus under strain reversal in sheet springback prediction. International Journal of Mechanical Sciences, 2013, 77, 194-204.	6.7	57
149	Formability of austenitic and ferritic stainless steels at warm forming temperature. International Journal of Mechanical Sciences, 2013, 75, 94-109.	6.7	49
150	Advanced Issues in springback. International Journal of Plasticity, 2013, 45, 3-20.	8.8	275
151	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.	5.6	81
152	Extension of homogeneous anisotropic hardening model to cross-loading with latent effects. International Journal of Plasticity, 2013, 46, 130-142.	8.8	170
153	Strain hardening response and modeling of EDDQ and DP780 steel sheet under non-linear strain path. Mechanics of Materials, 2013, 64, 11-26.	3.2	83
154	Hot Press Forming of Tailor Welded Blank: Experiments and FE Modeling. ISIJ International, 2012, 52, 2059-2068.	1.4	25
155	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.	2.7	96
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