

Till Clausmeyer

List of Publications by Citations

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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.

55
papers

465
citations

12
h-index

20
g-index

58
ext. papers

620
ext. citations

2.1
avg, IF

4.2
L-index

#	Paper	IF	Citations
55	Modeling of ductile fracture from shear to balanced biaxial tension for sheet metals. <i>International Journal of Solids and Structures</i> , 2017 , 112, 169-184	3.1	114
54	Experimental characterization and modeling of the hardening behavior of the sheet steel LH800. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 2515-2526	5.3	32
53	Damage Mechanisms and Mechanical Properties of High-Strength Multiphase Steels. <i>Materials</i> , 2018 , 11,	3.5	31
52	Modeling and finite element simulation of loading-path-dependent hardening in sheet metals during forming. <i>International Journal of Plasticity</i> , 2014 , 63, 64-93	7.6	23
51	Shifting value stream patterns along the product lifecycle with digital twins. <i>Procedia CIRP</i> , 2019 , 86, 3-11	1.8	21
50	Investigation of evolving yield surfaces of dual-phase steels. <i>Journal of Materials Processing Technology</i> , 2021 , 287, 116314	5.3	20
49	Evaluation of Void Nucleation and Development during Plastic Deformation of Dual-Phase Steel DP600. <i>Steel Research International</i> , 2016 , 87, 1583-1591	1.6	19
48	Phenomenological modeling of anisotropy induced by evolution of the dislocation structure on the macroscopic and microscopic scale. <i>International Journal of Material Forming</i> , 2011 , 4, 141-154	2	17
47	Influence of manufacturing processes on material characterization with the grooved in-plane torsion test. <i>International Journal of Mechanical Sciences</i> , 2018 , 146-147, 544-555	5.5	15
46	Material characterization for plane and curved sheets using the in-plane torsion test [An overview]. <i>Journal of Materials Processing Technology</i> , 2018 , 257, 278-287	5.3	14
45	Methods for measuring large shear strains in in-plane torsion tests. <i>Journal of Materials Processing Technology</i> , 2021 , 287, 116516	5.3	14
44	Experimental characterization of microstructure development during loading path changes in bcc sheet steels. <i>Journal of Materials Science</i> , 2013 , 48, 674-689	4.3	13
43	Analysis of shear cutting of dual phase steel by application of an advanced damage model. <i>Procedia Structural Integrity</i> , 2016 , 2, 1700-1707	1	11
42	Investigations of ductile damage during the process chains of toothed functional components manufactured by sheet-bulk metal forming. <i>Production Engineering</i> , 2016 , 10, 5-15	1.9	10
41	Adiabatic blanking of advanced high-strength steels. <i>CIRP Annals - Manufacturing Technology</i> , 2020 , 69, 269-272	4.9	9
40	Comparison of two models for anisotropic hardening and yield surface evolution in bcc sheet steels. <i>European Journal of Mechanics, A/Solids</i> , 2015 , 54, 120-131	3.7	7
39	Enhancement of Lemaitre Model to Predict Cracks at Low and Negative Triaxialities in Sheet Metal Forming. <i>Key Engineering Materials</i> , 2015 , 639, 427-434	0.4	7

38	Modelling of the blanking process of high-carbon steel using Lemaitre damage model. <i>Comptes Rendus - Mecanique</i> , 2018 , 346, 770-778	2.1	7
37	Investigations of ductile damage in DP600 and DC04 deep drawing steel sheets during punching. <i>Procedia Structural Integrity</i> , 2016 , 2, 673-680	1	6
36	Failure assessment in sheet metal forming using a phenomenological damage model and fracture criterion: experiments, parameter identification and validation. <i>Procedia Engineering</i> , 2017 , 207, 2066-2071		6
35	Prediction and analysis of damage evolution during caliber rolling and subsequent cold forward extrusion. <i>Production Engineering</i> , 2020 , 14, 33-41	1.9	6
34	On mesh dependencies in finite-element-based damage prediction: application to sheet metal bending. <i>Production Engineering</i> , 2020 , 14, 123-134	1.9	6
33	High temperature and dynamic testing of AHSS for an analytical description of the adiabatic cutting process. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 181, 012026	0.4	5
32	Experimental analysis of anisotropic damage in dual-phase steel by resonance measurement. <i>International Journal of Damage Mechanics</i> , 2017 , 26, 1147-1169	3	4
31	Numerical Investigation of Damage in Single-step, Two-step, and Reverse Deep Drawing of Rotationally Symmetric Cups from DP800 Dual Phase Steel. <i>Procedia Manufacturing</i> , 2020 , 47, 636-642	1.5	4
30	Damage characterization of high-strength multiphase steels. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 159, 012013	0.4	4
29	Material characterization for plane and curved sheets using the in-plane torsion test – An overview. <i>Procedia Engineering</i> , 2017 , 207, 1934-1939		4
28	Prediction of Ductile Damage in the Process Chain of Caliber Rolling and Forward Rod Extrusion. <i>Procedia Manufacturing</i> , 2020 , 47, 649-655	1.5	3
27	Stress state dependency of unloading behavior in high strength steels. <i>Procedia Engineering</i> , 2017 , 207, 179-184		3
26	Experimental setup to characterize flow-induced anisotropy of sheet metals. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 418, 012085	0.4	3
25	Influence of cutting tool stiffness on edge formability. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 418, 012061	0.4	3
24	Large strain flow curve identification for sheet metals under complex stress states. <i>Mechanics of Materials</i> , 2021 , 161, 103997	3.3	3
23	Effect of plastic strain and ductile damage on elastic modulus of multiphase steel and its impact on springback prediction 2019 ,		2
22	Influence of Different Yield Loci on Failure Prediction with Damage Models. <i>Journal of Physics: Conference Series</i> , 2017 , 896, 012081	0.3	2
21	Microstructural characterization and simulation of damage for geared sheet components. <i>Journal of Physics: Conference Series</i> , 2017 , 896, 012076	0.3	2

20	Comparison of two models for anisotropic hardening evolution in metals during complex loading. <i>International Journal of Material Forming</i> , 2009 , 2, 395-398	2	2
19	Evaluation of micro-damage by acoustic methods. <i>Procedia Manufacturing</i> , 2018 , 15, 527-534	1.5	2
18	Characterization of plasticity and fracture of an QP1180 steel sheet. <i>Procedia Manufacturing</i> , 2020 , 50, 529-534	1.5	1
17	Testing of Formed Gear Wheels at Quasi-Static and Elevated Strain Rates. <i>Procedia Manufacturing</i> , 2020 , 47, 623-628	1.5	1
16	Micromechanical Modeling of DP600 steel: From Microstructure to The Sheet Metal Forming Process. <i>Procedia Manufacturing</i> , 2020 , 47, 1540-1547	1.5	1
15	Numerical investigation of blanking for metal polymer sandwich sheets. <i>MATEC Web of Conferences</i> , 2016 , 80, 16002	0.3	1
14	Macroscopic modeling of material interfaces based on atomistic descriptions. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2014 , 14, 361-362	0.2	1
13	Characterization of Flow Induced Anisotropy in Sheet Metal at Large Strain. <i>Experimental Mechanics</i> , 2011 , 51, 1068-1074	2.6	1
12	ADAPT [A] Diversely Applicable Parameter Identification Tool: Overview and full-field application examples. <i>International Journal of Mechanical Sciences</i> , 2022 , 213, 106840	5.5	1
11	Analytical model of the in-plane torsion test. <i>Acta Mechanica</i> , 2022 , 233, 641	2.1	0
10	Estimation and Prevention of Strain Localization in Shear Tests. <i>Minerals, Metals and Materials Series</i> , 2021 , 691-707	0.3	0
9	Strain hardening under large deformation for AA5182. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 967, 012030	0.4	0
8	Determination of average dislocation densities in metals by analysis of digitally processed transmission-electron microscopy images. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2013 , 44, 541-546 ^{0.9}	0.9	0
7	Formulation and application of models for anisotropic hardening in sheet metals subject to complex loading-path changes. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2009 , 9, 329-330	0.2	0
6	Modeling Induced Flow Anisotropy and Phase Transformations in Air Hardening Steels. <i>Key Engineering Materials</i> , 2012 , 504-506, 443-448	0.4	0
5	Analysis of Path-Dependent Damage and Microstructure Evolution for Numerical Analysis of Sheet-Bulk Metal Forming Processes. <i>Lecture Notes in Production Engineering</i> , 2021 , 378-411	0	0
4	Analysis of Dislocation Structures in Ferritic and Dual Phase Steels Regarding Continuous and Discontinuous Loading Paths. <i>Minerals, Metals and Materials Series</i> , 2017 , 203-210	0.3	0
3	Influence of anisotropic damage evolution on cold forging. <i>Production Engineering</i> , 2020 , 14, 115-121	1.9	0

- 2 Cyclic Loading Tests Based on the In-Plane Torsion Test for Sheet Metal. *Minerals, Metals and Materials Series*, **2021**, 635-645 0.3
- 1 Combined Computed Tomography and Numerical Modeling for the Analysis of Bending of Additively Manufactured Cellular Sheets. *Minerals, Metals and Materials Series*, **2021**, 2099-2113 0.3