

Till Clausmeyer

List of Publications by Year in descending order

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56
papers

764
citations

623574

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58
all docs

58
docs citations

58
times ranked

502
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling of ductile fracture from shear to balanced biaxial tension for sheet metals. International Journal of Solids and Structures, 2017, 112, 169-184.	1.3	179
2	Damage Mechanisms and Mechanical Properties of High-Strength Multiphase Steels. Materials, 2018, 11, 761.	1.3	60
3	Investigation of evolving yield surfaces of dual-phase steels. Journal of Materials Processing Technology, 2021, 287, 116314.	3.1	44
4	Experimental characterization and modeling of the hardening behavior of the sheet steel LH800. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 2515-2526.	2.6	38
5	Shifting value stream patterns along the product lifecycle with digital twins. Procedia CIRP, 2019, 86, 3-11.	1.0	38
6	Modeling and finite element simulation of loading-path-dependent hardening in sheet metals during forming. International Journal of Plasticity, 2014, 63, 64-93.	4.1	32
7	Material characterization for plane and curved sheets using the in-plane torsion test – An overview. Journal of Materials Processing Technology, 2018, 257, 278-287.	3.1	29
8	Methods for measuring large shear strains in in-plane torsion tests. Journal of Materials Processing Technology, 2021, 287, 116516.	3.1	29
9	Evaluation of Void Nucleation and Development during Plastic Deformation of Dual-Phase Steel DP600. Steel Research International, 2016, 87, 1583-1591.	1.0	28
10	Large strain flow curve identification for sheet metals under complex stress states. Mechanics of Materials, 2021, 161, 103997.	1.7	22
11	Influence of manufacturing processes on material characterization with the grooved in-plane torsion test. International Journal of Mechanical Sciences, 2018, 146-147, 544-555.	3.6	20
12	Phenomenological modeling of anisotropy induced by evolution of the dislocation structure on the macroscopic and microscopic scale. International Journal of Material Forming, 2011, 4, 141-154.	0.9	17
13	Experimental characterization of microstructure development during loading path changes in bcc sheet steels. Journal of Materials Science, 2013, 48, 674-689.	1.7	17
14	Adiabatic blanking of advanced high-strength steels. CIRP Annals - Manufacturing Technology, 2020, 69, 269-272.	1.7	17
15	Analysis of shear cutting of dual phase steel by application of an advanced damage model. Procedia Structural Integrity, 2016, 2, 1700-1707.	0.3	14
16	Investigations of ductile damage during the process chains of toothed functional components manufactured by sheet-bulk metal forming. Production Engineering, 2016, 10, 5-15.	1.1	12
17	On mesh dependencies in finite-element-based damage prediction: application to sheet metal bending. Production Engineering, 2020, 14, 123-134.	1.1	12
18	Failure assessment in sheet metal forming using a phenomenological damage model and fracture criterion: experiments, parameter identification and validation. Procedia Engineering, 2017, 207, 2066-2071.	1.2	11

#	ARTICLE	IF	CITATIONS
19	ADAPT – A Diversely Applicable Parameter Identification Tool: Overview and full-field application examples. <i>International Journal of Mechanical Sciences</i> , 2022, 213, 106840.	3.6	11
20	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.	2.1	10
21	Enhancement of Lemaitre Model to Predict Cracks at Low and Negative Triaxialities in Sheet Metal Forming. <i>Key Engineering Materials</i> , 0, 639, 427-434.	0.4	8
22	Investigations of ductile damage in DP600 and DC04 deep drawing steel sheets during punching. <i>Procedia Structural Integrity</i> , 2016, 2, 673-680.	0.3	8
23	Modelling of the blanking process of high-carbon steel using Lemaitre damage model. <i>Comptes Rendus - Mecanique</i> , 2018, 346, 770-778.	2.1	8
24	Prediction and analysis of damage evolution during caliber rolling and subsequent cold forward extrusion. <i>Production Engineering</i> , 2020, 14, 33-41.	1.1	8
25	Potential and status of damage controlled forming processes. <i>Production Engineering</i> , 2020, 14, 1-4.	1.1	8
26	Experimental analysis of anisotropic damage in dual-phase steel by resonance measurement. <i>International Journal of Damage Mechanics</i> , 2017, 26, 1147-1169.	2.4	7
27	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.	0.3	7
28	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.	1.9	7
29	Damage characterization of high-strength multiphase steels. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 159, 012013.	0.3	5
30	Material characterization for plane and curved sheets using the in-plane torsion test – an overview. <i>Procedia Engineering</i> , 2017, 207, 1934-1939.	1.2	5
31	Characterization of plasticity and fracture of an QP1180 steel sheet. <i>Procedia Manufacturing</i> , 2020, 50, 529-534.	1.9	5
32	Prediction of Ductile Damage in the Process Chain of Caliber Rolling and Forward Rod Extrusion. <i>Procedia Manufacturing</i> , 2020, 47, 649-655.	1.9	5
33	Influence of Different Yield Loci on Failure Prediction with Damage Models. <i>Journal of Physics: Conference Series</i> , 2017, 896, 012081.	0.3	4
34	Stress state dependency of unloading behavior in high strength steels. <i>Procedia Engineering</i> , 2017, 207, 179-184.	1.2	4
35	Influence of cutting tool stiffness on edge formability. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 418, 012061.	0.3	4
36	Micromechanical Modeling of DP600 steel: From Microstructure to The Sheet Metal Forming Process. <i>Procedia Manufacturing</i> , 2020, 47, 1540-1547.	1.9	4

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37	Analytical model of the in-plane torsion test. Acta Mechanica, 2022, 233, 641-663.	1.1	4
38	Microstructural characterization and simulation of damage for geared sheet components. Journal of Physics: Conference Series, 2017, 896, 012076.	0.3	3
39	Experimental setup to characterize flow-induced anisotropy of sheet metals. IOP Conference Series: Materials Science and Engineering, 2018, 418, 012085.	0.3	3
40	Evaluation of micro-damage by acoustic methods. Procedia Manufacturing, 2018, 15, 527-534.	1.9	3
41	Comparison of two models for anisotropic hardening evolution in metals during complex loading. International Journal of Material Forming, 2009, 2, 395-398.	0.9	2
42	Effect of plastic strain and ductile damage on elastic modulus of multiphase steel and its impact on springback prediction. AIP Conference Proceedings, 2019, , .	0.3	2
43	Estimation and Prevention of Strain Localization in Shear Tests. Minerals, Metals and Materials Series, 2021, , 691-707.	0.3	2
44	Characterization of Flow Induced Anisotropy in Sheet Metal at Large Strain. Experimental Mechanics, 2022, 62, 441-458.	1.1	2
45	Modeling of anisotropy induced by evolution of dislocation microstructures on different scales. , 2011, , .		1
46	Macroscopic modeling of material interfaces based on atomistic descriptions. Proceedings in Applied Mathematics and Mechanics, 2014, 14, 361-362.	0.2	1
47	Numerical investigation of blanking for metal polymer sandwich sheets. MATEC Web of Conferences, 2016, 80, 16002.	0.1	1
48	Testing of Formed Gear Wheels at Quasi-Static and Elevated Strain Rates. Procedia Manufacturing, 2020, 47, 623-628.	1.9	1
49	Cyclic Loading Tests Based on the In-Plane Torsion Test for Sheet Metal. Minerals, Metals and Materials Series, 2021, , 635-645.	0.3	1
50	Formulation and application of models for anisotropic hardening in sheet metals subject to complex loading-path changes. Proceedings in Applied Mathematics and Mechanics, 2009, 9, 329-330.	0.2	0
51	Modeling Induced Flow Anisotropy and Phase Transformations in Air Hardening Steels. Key Engineering Materials, 2012, 504-506, 443-448.	0.4	0
52	Determination of average dislocation densities in metals by analysis of digitally processed transmission-electron microscopy images. Materialwissenschaft Und Werkstofftechnik, 2013, 44, 541-546.	0.5	0
53	Influence of anisotropic damage evolution on cold forging. Production Engineering, 2020, 14, 115-121.	1.1	0
54	Strain hardening under large deformation for AA5182. IOP Conference Series: Materials Science and Engineering, 2020, 967, 012030.	0.3	0

#	ARTICLE	IF	CITATIONS
55	Analysis of Dislocation Structures in Ferritic and Dual Phase Steels Regarding Continuous and Discontinuous Loading Paths. Minerals, Metals and Materials Series, 2017, , 203-210.	0.3	0
56	Analysis of Path-Dependent Damage and Microstructure Evolution for Numerical Analysis of Sheet-Bulk Metal Forming Processes. Lecture Notes in Production Engineering, 2021, , 378-411.	0.3	0