Till Clausmeyer

List of Publications by Year
in descending order

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56 papers	764 citations	623574 14 h-index	552653 26 g-index
58 all docs	58 docs citations	58 times ranked	502 citing authors

#	Article	IF	Citations
1	Characterization of Flow Induced Anisotropy in Sheet Metal at Large Strain. Experimental Mechanics, 2022, 62, 441-458.	1.1	2
2	ADAPT â€" A Diversely Applicable Parameter Identification Tool: Overview and full-field application examples. International Journal of Mechanical Sciences, 2022, 213, 106840.	3.6	11
3	Analytical model of the in-plane torsion test. Acta Mechanica, 2022, 233, 641-663.	1.1	4
4	Investigation of evolving yield surfaces of dual-phase steels. Journal of Materials Processing Technology, 2021, 287, 116314.	3.1	44
5	Methods for measuring large shear strains in in-plane torsion tests. Journal of Materials Processing Technology, 2021, 287, 116516.	3.1	29
6	Estimation and Prevention of Strain Localization in Shear Tests. Minerals, Metals and Materials Series, 2021, , 691-707.	0.3	2
7	Cyclic Loading Tests Based on the In-Plane Torsion Test for Sheet Metal. Minerals, Metals and Materials Series, 2021, , 635-645.	0.3	1
8	Large strain flow curve identification for sheet metals under complex stress states. Mechanics of Materials, 2021, 161, 103997.	1.7	22
9	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
10	Influence of anisotropic damage evolution on cold forging. Production Engineering, 2020, 14, 115-121.	1.1	0
11	Prediction and analysis of damage evolution during caliber rolling and subsequent cold forward extrusion. Production Engineering, 2020, 14, 33-41.	1.1	8
12	On mesh dependencies in finite-element-based damage prediction: application to sheet metal bending. Production Engineering, 2020, 14, 123-134.	1.1	12
13	Strain hardening under large deformation for AA5182. IOP Conference Series: Materials Science and Engineering, 2020, 967, 012030.	0.3	0
14	Characterization of plasticity and fracture of an QP1180 steel sheet. Procedia Manufacturing, 2020, 50, 529-534.	1.9	5
15	Testing of Formed Gear Wheels at Quasi-Static and Elevated Strain Rates. Procedia Manufacturing, 2020, 47, 623-628.	1.9	1
16	Prediction of Ductile Damage in the Process Chain of Caliber Rolling and Forward Rod Extrusion. Procedia Manufacturing, 2020, 47, 649-655.	1.9	5
17	Numerical Investigation of Damage in Single-step, Two-step, and Reverse Deep Drawing of Rotationally Symmetric Cups from DP800 Dual Phase Steel. Procedia Manufacturing, 2020, 47, 636-642.	1.9	7
18	Adiabatic blanking of advanced high-strength steels. CIRP Annals - Manufacturing Technology, 2020, 69, 269-272.	1.7	17

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19	Potential and status of damage controlled forming processes. Production Engineering, 2020, 14, 1-4.	1.1	8
20	Micromechanical Modeling of DP600 steel: From Microstructure to The Sheet Metal Forming Process. Procedia Manufacturing, 2020, 47, 1540-1547.	1.9	4
21	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
22	Shifting value stream patterns along the product lifecycle with digital twins. Procedia CIRP, 2019, 86, 3-11.	1.0	38
23	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
24	Material characterization for plane and curved sheets using the in-plane torsion test â€“ An overview. Journal of Materials Processing Technology, 2018, 257, 278-287.	3.1	29
25	Experimental setup to characterize flow-induced anisotropy of sheet metals. IOP Conference Series: Materials Science and Engineering, 2018, 418, 012085.	0.3	3
26	Evaluation of micro-damage by acoustic methods. Procedia Manufacturing, 2018, 15, 527-534.	1.9	3
27	Influence of cutting tool stiffness on edge formability. IOP Conference Series: Materials Science and Engineering, 2018, 418, 012061.	0.3	4
28	Modelling of the blanking process of high-carbon steel using Lemaitre damage model. Comptes Rendus - Mecanique, 2018, 346, 770-778.	2.1	8
29	Damage Mechanisms and Mechanical Properties of High-Strength Multiphase Steels. Materials, 2018, 11, 761.	1.3	60
30	Experimental analysis of anisotropic damage in dual-phase steel by resonance measurement. International Journal of Damage Mechanics, 2017, 26, 1147-1169.	2.4	7
31	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
32	Influence of Different Yield Loci on Failure Prediction with Damage Models. Journal of Physics: Conference Series, 2017, 896, 012081.	0.3	4
33	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
34	Stress state dependency of unloading behavior in high strength steels. Procedia Engineering, 2017, 207, 179-184.	1.2	4
35	Material characterization for plane and curved sheets using the in-plane torsion test â€“ an overview. Procedia Engineering, 2017, 207, 1934-1939.	1.2	5
36	Microstructural characterization and simulation of damage for geared sheet components. Journal of Physics: Conference Series, 2017, 896, 012076.	0.3	3

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37	High temperature and dynamic testing of AHSS for an analytical description of the adiabatic cutting process. IOP Conference Series: Materials Science and Engineering, 2017, 181, 012026.	0.3	7
38	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
39	Evaluation of Void Nucleation and Development during Plastic Deformation of Dual-Phase Steel DP600. Steel Research International, 2016, 87, 1583-1591.	1.0	28
40	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
41	Investigations of ductile damage in DP600 and DC04 deep drawing steel sheets during punching. Procedia Structural Integrity, 2016, 2, 673-680.	0.3	8
42	Numerical investigation of blanking for metal polymer sandwich sheets. MATEC Web of Conferences, 2016, 80, 16002.	0.1	1
43	Damage characterization of high-strength multiphase steels. IOP Conference Series: Materials Science and Engineering, 2016, 159, 012013.	0.3	5
44	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
45	Comparison of two models for anisotropic hardening and yield surface evolution in bcc sheet steels. European Journal of Mechanics, A/Solids, 2015, 54, 120-131.	2.1	10
46	Macroscopic modeling of material interfaces based on atomistic descriptions. Proceedings in Applied Mathematics and Mechanics, 2014, 14, 361-362.	0.2	1
47	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
48	Experimental characterization of microstructure development during loading path changes in bcc sheet steels. Journal of Materials Science, 2013, 48, 674-689.	1.7	17
49	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
50	Modeling Induced Flow Anisotropy and Phase Transformations in Air Hardening Steels. Key Engineering Materials, 2012, 504-506, 443-448.	0.4	0
51	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
52	Modeling of anisotropy induced by evolution of dislocation microstructures on different scales. , 2011, , .		1
53	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
54	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

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55	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
56	Enhancement of Lemaitre Model to Predict Cracks at Low and Negative Triaxialities in Sheet Metal Forming. Key Engineering Materials, 0, 639, 427-434.	0.4	8