

Yanshan Lou

List of Publications by Year in Descending Order

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Version: 2024-04-27

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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.

46
papers

1,627
citations

17
h-index

40
g-index

53
ext. papers

2,075
ext. citations

3.2
avg, IF

5.42
L-index

#	Paper	IF	Citations
46	Machine learning-based modeling of the coupling effect of strain rate and temperature on strain hardening for 5182-O aluminum alloy. <i>Journal of Materials Processing Technology</i> , 2022 , 302, 117501	5.3	4
45	User-friendly anisotropic hardening function with non-associated flow rule under the proportional loadings for BCC and FCC metals. <i>Mechanics of Materials</i> , 2022 , 165, 104190	3.3	2
44	Failure Modeling for QP980 Steel by a Shear Ductile Fracture Criterion. <i>Metals</i> , 2022 , 12, 452	2.3	
43	Simulations of plastic deformation by anisotropic hardening yield functions for QP1180. <i>IOP Conference Series: Materials Science and Engineering</i> , 2022 , 1238, 012088	0.4	
42	Prediction of Strain Path Changing Effect on Forming Limits of AA 6111-T4 Based on a Shear Ductile Fracture Criterion. <i>Metals</i> , 2021 , 11, 546	2.3	1
41	A user-friendly anisotropic ductile fracture criterion for sheet metal under proportional loading. <i>International Journal of Solids and Structures</i> , 2021 , 217-218, 48-59	3.1	3
40	Plastic and Fracture Characteristics of WE43 Mg Alloy Under Complex Stress States. <i>Minerals, Metals and Materials Series</i> , 2021 , 647-655	0.3	
39	Large strain flow curve identification for sheet metals under complex stress states. <i>Mechanics of Materials</i> , 2021 , 161, 103997	3.3	3
38	Strain hardening under large deformation for AA5182. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 967, 012030	0.4	
37	Characterization of plasticity and fracture of an QP1180 steel sheet. <i>Procedia Manufacturing</i> , 2020 , 50, 529-534	1.5	1
36	A pressure-coupled Drucker function for plasticity and fracture modelling of AA5182. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 967, 012029	0.4	
35	Strain Rate Effect on the Fracture Behavior of the AA5754 Aluminum Alloy. <i>Procedia Manufacturing</i> , 2020 , 47, 1264-1269	1.5	2
34	Strength modeling of sheet metals from shear to plane strain tension. <i>International Journal of Plasticity</i> , 2020 , 134, 102813	7.6	14
33	Prediction of ductile fracture for Al6016-T4 with a ductile fracture criterion: Experiment and simulation. <i>International Journal of Damage Mechanics</i> , 2020 , 29, 1199-1221	3	4
32	Effect of Lode angle in predicting the ballistic resistance of Weldox 700 E steel plates struck by blunt projectiles. <i>International Journal of Impact Engineering</i> , 2019 , 128, 46-71	4	17
31	Effect of Anisotropic Yield Functions on the Accuracy of Material Flow and its Experimental Verification. <i>Acta Mechanica Solida Sinica</i> , 2019 , 32, 50-68	2	4
30	A reduced Yld2004 function for modeling of anisotropic plastic deformation of metals under triaxial loading. <i>International Journal of Mechanical Sciences</i> , 2019 , 161-162, 105027	5.5	13

29	Enhanced Constitutive Model for Aeronautic Aluminium Alloy (AA2024-T351) under High Strain Rates and Elevated Temperatures. <i>International Journal of Automotive Technology</i> , 2019 , 20, 79-87	1.6	4
28	Application of the modified Mohr-Coulomb fracture criterion in predicting the ballistic resistance of 2024-T351 aluminum alloy plates impacted by blunt projectiles. <i>International Journal of Impact Engineering</i> , 2019 , 123, 26-37	4	33
27	Alternative approach to model ductile fracture by incorporating anisotropic yield function. <i>International Journal of Solids and Structures</i> , 2019 , 164, 12-24	3.1	18
26	Correlation of the maximum shear stress with micro-mechanisms of ductile fracture for metals with high strength-to-weight ratio. <i>International Journal of Mechanical Sciences</i> , 2018 , 146-147, 583-601	5.5	36
25	Anisotropic yield function based on stress invariants for BCC and FCC metals and its extension to ductile fracture criterion. <i>International Journal of Plasticity</i> , 2018 , 101, 125-155	7.6	85
24	Material characterization and fracture prediction with advanced constitutive model and Polar EPS fracture diagram for AA 3104-H19. <i>Journal of Physics: Conference Series</i> , 2018 , 1063, 012156	0.3	1
23	Earing prediction of AA 2008-T4 with anisotropic Drucker yield function based on the second and third stress invariants. <i>Journal of Physics: Conference Series</i> , 2018 , 1063, 012113	0.3	2
22	Extension of the DF2016 isotropic model into an anisotropic ductile fracture criterion. <i>Journal of Physics: Conference Series</i> , 2018 , 1063, 012148	0.3	
21	Effect of the Lode parameter in predicting shear cracking of 2024-T351 aluminum alloy Taylor rods. <i>International Journal of Impact Engineering</i> , 2018 , 120, 185-201	4	30
20	Fracture-based forming limit criteria for anisotropic materials in sheet metal forming. <i>International Journal of Plasticity</i> , 2017 , 96, 1-35	7.6	87
19	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
18	Anisotropic ductile fracture criterion based on linear transformation. <i>International Journal of Plasticity</i> , 2017 , 93, 3-25	7.6	65
17	Linear transformation based orthotropic shear ductile fracture criterion for lightweight metals 2017 ,		1
16	Finite Element formulation of a general asymmetrical yield function for pressure sensitive metals. <i>Procedia Engineering</i> , 2017 , 207, 215-220		2
15	J2 - J3 based anisotropic yield function under spatial loading. <i>Procedia Engineering</i> , 2017 , 207, 233-238		2
14	Anisotropic Behavior in Plasticity and Ductile Fracture of an Aluminum Alloy. <i>Key Engineering Materials</i> , 2015 , 651-653, 163-168	0.4	13
13	Modeling of shear ductile fracture considering a changeable cut-off value for stress triaxiality. <i>International Journal of Plasticity</i> , 2014 , 54, 56-80	7.6	219
12	Asymmetric yield function based on the stress invariants for pressure sensitive metals. <i>International Journal of Plasticity</i> , 2014 , 56, 184-202	7.6	137

11	Fracture modelling of DP780 sheets using a hybrid experimental-numerical method and two-dimensional digital image correlation. <i>International Journal of Materials and Product Technology</i> , 2014 , 48, 34	1	8
10	Tensile fracture of ultrafine grained aluminum 6061 sheets by asymmetric cryorolling for microforming. <i>International Journal of Damage Mechanics</i> , 2014 , 23, 1077-1095	3	27
9	A Study on Compressive Anisotropy and Nonassociated Flow Plasticity of the AZ31 Magnesium Alloy in Hot Rolling. <i>Mathematical Problems in Engineering</i> , 2014 , 2014, 1-9	1.1	1
8	Prediction of ductile fracture for advanced high strength steel with a new criterion: Experiments and simulation. <i>Journal of Materials Processing Technology</i> , 2013 , 213, 1284-1302	5.3	141
7	Prediction of fracture forming limit for DP780 steel sheet. <i>Metals and Materials International</i> , 2013 , 19, 697-705	2.4	13
6	Evaluation of ductile fracture criteria in a general three-dimensional stress state considering the stress triaxiality and the lode parameter. <i>Acta Mechanica Solida Sinica</i> , 2013 , 26, 642-658	2	37
5	Extension of a shear-controlled ductile fracture model considering the stress triaxiality and the Lode parameter. <i>International Journal of Solids and Structures</i> , 2013 , 50, 447-455	3.1	129
4	Consideration of strength differential effect in sheet metals with symmetric yield functions. <i>International Journal of Mechanical Sciences</i> , 2013 , 66, 214-223	5.5	45
3	New ductile fracture criterion for prediction of fracture forming limit diagrams of sheet metals. <i>International Journal of Solids and Structures</i> , 2012 , 49, 3605-3615	3.1	298
2	Formability Prediction of Advanced High Strength Steel with a New Ductile Fracture Criterion 2011 ,		3
1	Accuracy Analysis of Anisotropic Yield Functions based on the Root-Mean Square Error 2010 ,		6