

# Jun-He Lian

## List of Publications by Year in Descending Order

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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.

88

papers

1,013

citations

18

h-index

27

g-index

97

ext. papers

1,322

ext. citations

3.1

avg. IF

5

L-index

#	Paper	IF	Citations
88	Microstructure-Based Fatigue Modeling with Residual Stresses: Effect of Inclusion Shape on Very High Cycle Fatigue Life. <i>Crystals</i> , <b>2022</b> , 12, 200	2.3	0
87	Microstructural evolution and properties of electromagnetic cast-rolled novel AlMn alloy under different heat treatment procedures. <i>Journal of Materials Research and Technology</i> , <b>2022</b> , 16, 864-878	5.5	0
86	Dynamic strain aging in DP1000: Effect of temperature and strain rate. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 832, 142509	5.3	1
85	Local formability of medium-Mn steel. <i>Journal of Materials Processing Technology</i> , <b>2022</b> , 299, 117368	5.3	5
84	Self-equilibrated backstresses induce compensation between hardening and softening: Micromechanical and microstructural features. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 843, 143145	5.3	0
83	Plasticity evolution of an aluminum-magnesium alloy under abrupt strain path changes. <i>International Journal of Material Forming</i> , <b>2022</b> , 15, 1	2	0
82	Prediction of Ductile Fracture in Bainitic Steel with Dependence on Stress States and Loading Orientation. <i>Minerals, Metals and Materials Series</i> , <b>2022</b> , 375-387	0.3	
81	Strain rate dependent plasticity and fracture of DP1000 steel under proportional and non-proportional loading. <i>European Journal of Mechanics, A/Solids</i> , <b>2021</b> , 92, 104446	3.7	1
80	Large-deformation plasticity and fracture behavior of pure lithium under various stress states. <i>Acta Materialia</i> , <b>2021</b> , 208, 116730	8.4	3
79	Stress-state dependence of dynamic strain aging: Thermal hardening and blue brittleness. <i>International Journal of Minerals, Metallurgy and Materials</i> , <b>2021</b> , 28, 854-866	3.1	6
78	Prediction of edge fracture during hole-flanging of advanced high-strength steel considering blanking pre-damage. <i>Engineering Fracture Mechanics</i> , <b>2021</b> , 248, 107721	4.2	2
77	Influence of surface roughness on cold formability in bending processes: a multiscale modelling approach with the hybrid damage mechanics model. <i>International Journal of Material Forming</i> , <b>2021</b> , 14, 235-248	2	0
76	Forming limit prediction by the Marciniak-Kuczynski model coupled with the evolving non-associated Hill48 plasticity model. <i>Journal of Materials Processing Technology</i> , <b>2021</b> , 287, 116384	5.3	13
75	Revealing the relationship between microstructures, textures, and mechanical behaviors of cold-rolled Al <sub>0.1</sub> CoCrFeNi high-entropy alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 804, 140752	5.3	8
74	In-depth analysis of the fatigue mechanism induced by inclusions for high-strength bearing steels. <i>International Journal of Minerals, Metallurgy and Materials</i> , <b>2021</b> , 28, 826-834	3.1	6
73	Mechanical Deformation of Lithium-Ion Pouch Cells under In-Plane Loads Part I: Experimental Investigation. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 090533	3.9	12
72	Mechanical Deformation of Lithium-Ion Pouch Cells under in-plane Loads Part II: Computational Modeling. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 090556	3.9	11

71	Temperature Dependence of Plastic Flow, Anisotropy and Ductile Fracture. <i>Procedia Manufacturing</i> , <b>2020</b> , 47, 1308-1313	1.5	
70	Investigation on the ductile fracture of high-strength pipeline steels using a partial anisotropic damage mechanics model. <i>Engineering Fracture Mechanics</i> , <b>2020</b> , 227, 106900	4.2	11
69	Prediction of crack formation in the progressive folding of square tubes during dynamic axial crushing. <i>International Journal of Mechanical Sciences</i> , <b>2020</b> , 176, 105534	5.5	21
68	Microstructure Effects on the Plastic Anisotropy of a Fine-Structured Dual-Phase Steel. <i>Procedia Manufacturing</i> , <b>2020</b> , 47, 1552-1560	1.5	
67	A strategy for synthetic microstructure generation and crystal plasticity parameter calibration of fine-grain-structured dual-phase steel. <i>International Journal of Plasticity</i> , <b>2020</b> , 126, 102614	7.6	26
66	Effect of ausforming on microstructure and hardness characteristics of bainitic steel. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 13365-13374	5.5	1
65	Numerical Evaluation of Surface Roughness Influences on Cold Formability of Dual-Phase Steel. <i>Steel Research International</i> , <b>2020</b> , 91, 2000141	1.6	3
64	Influence of Pore Characteristics on Anisotropic Mechanical Behavior of Laser Powder Bed Fusion Manufactured Metal by Micromechanical Modeling. <i>Advanced Engineering Materials</i> , <b>2020</b> , 22, 2000641	3.5	2
63	Crystallographic orientation and spatially resolved damage in a dispersion-hardened Al alloy. <i>Acta Materialia</i> , <b>2020</b> , 193, 138-150	8.4	19
62	An evolving plasticity model considering anisotropy, thermal softening and dynamic strain aging. <i>International Journal of Plasticity</i> , <b>2020</b> , 132, 102747	7.6	11
61	Damage mechanism analysis of a high-strength dual-phase steel sheet with optimized fracture samples for various stress states and loading rates. <i>Engineering Failure Analysis</i> , <b>2019</b> , 106, 104138	3.2	16
60	Surface roughness influences on localization and damage during forming of DP1000 sheet steel. <i>Procedia Manufacturing</i> , <b>2019</b> , 29, 504-511	1.5	2
59	Microstructure-based fatigue modelling with residual stresses: Prediction of the fatigue life for various inclusion sizes. <i>International Journal of Fatigue</i> , <b>2019</b> , 129, 105158	5	19
58	Numerical Study of the Effect of Inclusions on the Residual Stress Distribution in High-Strength Martensitic Steels During Cooling. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 455	2.6	16
57	Prediction of shear crack formation of lithium-ion batteries under rod indentation: Comparison of seven failure criteria. <i>Engineering Fracture Mechanics</i> , <b>2019</b> , 217, 106520	4.2	26
56	A strain-gradient isotropic elastoplastic damage model with J3 dependence. <i>International Journal of Solids and Structures</i> , <b>2019</b> , 174-175, 98-127	3.1	6
55	Quantitative Analysis of Inclusion Engineering on the Fatigue Property Improvement of Bearing Steel. <i>Metals</i> , <b>2019</b> , 9, 476	2.3	14
54	Microstructure-based fatigue modelling with residual stresses: Prediction of the microcrack initiation around inclusions. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 751, 133-141	5.3	23

53	Effect of plastic strain and ductile damage on elastic modulus of multiphase steel and its impact on springback prediction <b>2019</b> ,		2
52	Crystal plasticity modelling of flow behavior under various strain rates <b>2019</b> ,		1
51	Anisotropic plasticity model considering the dynamic strain ageing effects <b>2019</b> ,		2
50	Micromechanical modeling of cleavage fracture for a ferritic-pearlitic steel. <i>Engineering Fracture Mechanics</i> , <b>2019</b> , 221, 106683	4.2	3
49	Delayed cracking behavior of a meta-stable austenitic stainless steel under bending condition. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 768, 138470	5.3	5
48	Modelling the surface roughness influence on the hole expansion ratio of multiphase steel. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 651, 012006	0.4	1
47	Effects of the isotropic and anisotropic hardening within each grain on the evolution of the flow stress, the r-value and the deformation texture of tensile tests for AA6016 sheets. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 721, 154-164	5.3	26
46	The in-depth residual strain heterogeneities due to an indentation and a laser shock peening for Ti-6Al-4V titanium alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 714, 140-145	5.3	16
45	Grain Orientation Dependence of the Residual Lattice Strain in a Cold Rolled Interstitial-Free Steel. <i>Steel Research International</i> , <b>2018</b> , 89, 1700408	1.6	10
44	An evolving non-associated Hill48 plasticity model accounting for anisotropic hardening and r-value evolution and its application to forming limit prediction. <i>International Journal of Solids and Structures</i> , <b>2018</b> , 151, 20-44	3.1	42
43	Forming limit prediction by an evolving non-quadratic yield criterion considering the anisotropic hardening and r-value evolution <b>2018</b> ,		6
42	Modeling of plasticity and fracture behavior of X65 steels: seam weld and seamless pipes. <i>International Journal of Fracture</i> , <b>2018</b> , 213, 17-36	2.3	15
41	An Experimental Study on the Impact of Deoxidation Methods on the Fatigue Properties of Bearing Steels. <i>Steel Research International</i> , <b>2018</b> , 89, 1800129	1.6	12
40	An Experimental and Numerical Investigation of the Anisotropic Plasticity and Fracture Properties of High Strength Steels from Laboratory to Component Scales. <i>Procedia Structural Integrity</i> , <b>2018</b> , 13, 1312-1317	1	5
39	Plasticity and failure behavior modeling of high-strength steels under various strain rates and temperatures: microstructure to components. <i>Procedia Structural Integrity</i> , <b>2018</b> , 13, 1421-1426	1	1
38	A microstructure sensitive modeling approach for fatigue life prediction considering the residual stress effect from heat treatment. <i>Procedia Structural Integrity</i> , <b>2018</b> , 13, 2048-2052	1	2
37	Evolution of plastic anisotropy and strain rate sensitivity. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1063, 012063	0.3	4
36	Dynamic fracture of a dual phase automotive steel. <i>EPJ Web of Conferences</i> , <b>2018</b> , 183, 02047	0.3	

35	The lattice strain ratio in characterizing the grain-to-grain interaction effect and its specific insight on the plastic deformation of polycrystalline materials. <i>Journal of Strain Analysis for Engineering Design</i> , <b>2018</b> , 53, 353-363	1.3	13
34	Fracture properties of zinc coating layers in a galvanized steel and an electrolytically galvanized steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 732, 320-325	5.3	6
33	A comparative study on the forming limit diagram prediction between Marciniak-Kuczynski model and modified maximum force criterion by using the evolving non-associated Hill48 plasticity model <b>2018</b> ,		4
32	Investigation on micromechanism and stress state effects on cleavage fracture of ferritic-pearlitic steel at 196 °C. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 686, 134-141	5.3	14
31	Modeling of Chip Breakage in Machining of AISI 1045 Steel by Using an Improved Damage Mechanics Model. <i>Steel Research International</i> , <b>2017</b> , 88, 1600338	1.6	3
30	Prediction of plasticity and damage initiation behaviour of C45E + N steel by micromechanical modelling. <i>Materials and Design</i> , <b>2017</b> , 121, 154-166	8.1	21
29	Extension of the modified Bai-Wierzbicki model for predicting ductile fracture under complex loading conditions. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2017</b> , 40, 2152-2168	3	31
28	Comparative Study on Damage Evolution during Sheet Metal Forming of Steels DP600 and DP1000. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 896, 012074	0.3	5
27	Forming limit curves determined in high-speed Nakajima tests and predicted by a strain rate sensitive model <b>2017</b> ,		1
26	A generalized Orowan model for cleavage fracture. <i>Engineering Fracture Mechanics</i> , <b>2017</b> , 186, 105-118	4.2	7
25	Design of an Experimental Program to Assess the Dynamic Fracture Properties of a Dual Phase Automotive Steel. <i>Procedia Engineering</i> , <b>2017</b> , 197, 204-213		2
24	Dynamic Fracture Behavior of High Strength Pipeline Steel. <i>Procedia Engineering</i> , <b>2017</b> , 197, 214-223		0
23	Crystal plasticity assisted prediction on the yield locus evolution and forming limit curves <b>2017</b> ,		9
22	Damage and fracture loci for a dual-phase steel and a high-strength low-alloyed steel: Revealing the different plastic localization damage ductile fracture pattern <b>2016</b> ,		2
21	The second Sandia Fracture Challenge: predictions of ductile failure under quasi-static and moderate-rate dynamic loading. <i>International Journal of Fracture</i> , <b>2016</b> , 198, 5-100	2.3	55
20	The Second Blind Sandia Fracture Challenge: improved MBW model predictions for different strain rates. <i>International Journal of Fracture</i> , <b>2016</b> , 198, 149-165	2.3	2
19	Cold formability prediction by the modified maximum force criterion with a non-associated Hill48 model accounting for anisotropic hardening. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 734, 032112	0.3	
18	A new model for upper shelf impact toughness assessment with a computationally efficient parameter identification algorithm. <i>Engineering Fracture Mechanics</i> , <b>2015</b> , 148, 281-303	4.2	27

17	Cold Formability of Automotive Sheet Metals: Anisotropy, Localization, Damage and Ductile Fracture. <i>Key Engineering Materials</i> , <b>2015</b> , 639, 353-360	0.4	2
16	Evaluation of the cold formability of high-strength low-alloy steel plates with the modified Bai/Wierzbicki damage model. <i>International Journal of Damage Mechanics</i> , <b>2015</b> , 24, 383-417	3	40
15	A method to quantitatively upscale the damage initiation of dual-phase steels under various stress states from microscale to macroscale. <i>Computational Materials Science</i> , <b>2014</b> , 94, 245-257	3.2	50
14	A Modified Lemaitre Damage Model Phenomenologically Accounting for the Lode Angle Effect on Ductile Fracture <b>2014</b> , 3, 1841-1847		11
13	The modeling scheme to evaluate the influence of microstructure features on microcrack formation of DP-steel: The artificial microstructure model and its application to predict the strain hardening behavior. <i>Computational Materials Science</i> , <b>2014</b> , 94, 198-213	3.2	30
12	Modeling the Cold Formability of Dualphase Steels on Different Length Scales <b>2014</b> , 3, 1050-1055		2
11	A Generalized Damage Model Accounting for Instability and Ductile Fracture for Sheet Metals. <i>Key Engineering Materials</i> , <b>2014</b> , 611-612, 106-110	0.4	10
10	Micromechanical Modeling of Damage and Failure in Dual Phase Steels. <i>Key Engineering Materials</i> , <b>2013</b> , 554-557, 2369-2374	0.4	1
9	Predicting lower bound damage curves for high-strength low-alloy steels. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2013</b> , 36, 779-794	3	14
8	A hybrid approach for modelling of plasticity and failure behaviour of advanced high-strength steel sheets. <i>International Journal of Damage Mechanics</i> , <b>2013</b> , 22, 188-218	3	127
7	Evaluation of the Cold Formability of Multiphase Steels by Damage Mechanics Approaches*. <i>Materialpruefung/Materials Testing</i> , <b>2013</b> , 55, 628-635	1.9	3
6	Modeling of Damage and Failure of Dual Phase Steel in Nakajima Test. <i>Key Engineering Materials</i> , <b>2012</b> , 525-526, 69-72	0.4	15
5	Design of damage tolerance in high-strength steels. <i>International Journal of Materials Research</i> , <b>2012</b> , 103, 755-764	0.5	26
4	Numerical Determination of the Damage Parameters of a Dual-phase Sheet Steel. <i>ISIJ International</i> , <b>2012</b> , 52, 743-752	1.7	28
3	Exploiting the Property Profile of High Strength Steels by Damage Mechanics Approaches*. <i>Materialpruefung/Materials Testing</i> , <b>2012</b> , 54, 557-563	1.9	6
2	A numerical approach to evaluate roughness effects on localization and damage in sheet materials. <i>IOP Conference Series: Materials Science and Engineering</i> , 418, 012038	0.4	5
1	Influence of Microstructural Features on the Propagation of Microstructurally Short Fatigue Cracks in Structural Steels 243-250		