

Chen Jun

List of Publications by Year in descending order

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84
papers

1,566
citations

331670

21
h-index

377865

34
g-index

85
all docs

85
docs citations

85
times ranked

998
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism investigation for the influence of tool rotation and laser surface texturing (LST) on formability in single point incremental forming. <i>International Journal of Machine Tools and Manufacture</i> , 2013, 73, 37-46.	13.4	106
2	A new shear and tension based ductile fracture criterion: Modeling and validation. <i>European Journal of Mechanics, A/Solids</i> , 2017, 66, 370-386.	3.7	78
3	A normalized stress invariant-based yield criterion: Modeling and validation. <i>International Journal of Plasticity</i> , 2017, 99, 248-273.	8.8	70
4	Analytical modeling and experimental validation of the forming force in several typical incremental sheet forming processes. <i>International Journal of Machine Tools and Manufacture</i> , 2019, 140, 62-76.	13.4	65
5	An efficient method for thickness prediction in multi-pass incremental sheet forming. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 77, 469-483.	3.0	50
6	Development of novel tools for electricity-assisted incremental sheet forming of titanium alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 85, 1137-1144.	3.0	49
7	Topology optimization of die weight reduction for high-strength sheet metal stamping. <i>International Journal of Mechanical Sciences</i> , 2012, 59, 73-82.	6.7	43
8	Fuzzy similarity-based rough set method for case-based reasoning and its application in tool selection. <i>International Journal of Machine Tools and Manufacture</i> , 2006, 46, 107-113.	13.4	42
9	Constitutive modeling of hot deformation behavior of X20Cr13 martensitic stainless steel with strain effect. <i>Transactions of Nonferrous Metals Society of China</i> , 2014, 24, 1407-1413.	4.2	42
10	Investigation on a new hole-flanging approach by incremental sheet forming through a featured tool. <i>International Journal of Machine Tools and Manufacture</i> , 2016, 110, 1-17.	13.4	41
11	A Comparative Study on Process Potentials for Frictional Stir- and Electric Hot-assisted Incremental Sheet Forming. <i>Procedia Engineering</i> , 2014, 81, 2324-2329.	1.2	38
12	A generalized thermodynamic approach for modeling nonlinear hardening behaviors. <i>International Journal of Plasticity</i> , 2012, 38, 102-122.	8.8	34
13	Analytical model and experimental validation of surface roughness for incremental sheet metal forming parts. <i>International Journal of Machine Tools and Manufacture</i> , 2019, 146, 103453.	13.4	34
14	Effect of hydrogen on the microstructure and superplasticity of Ti-55 alloy. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 6338-6349.	7.1	32
15	Fracture Morphologies of Advanced High Strength Steel During Deformation. <i>Acta Metallurgica Sinica (English Letters)</i> , 2014, 27, 101-106.	2.9	31
16	Enhancement of adhesion strength by micro-rolling-based surface texturing. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 78, 1427-1435.	3.0	31
17	Effective forming strategy for double-sided incremental forming considering in-plane curvature and tool direction. <i>CIRP Annals - Manufacturing Technology</i> , 2016, 65, 265-268.	3.6	30
18	Overview on the Prediction Models for Sheet Metal Forming Failure: Necking and Ductile Fracture. <i>Acta Mechanica Sinica</i> , 2018, 31, 259-289.	1.9	27

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19	Robust design of sheet metal forming process based on adaptive importance sampling. Structural and Multidisciplinary Optimization, 2009, 39, 531-544.	3.5	25
20	Experimental investigations on friction stir assisted single point incremental forming of low-ductility aluminum alloy sheet for higher formability with reasonable surface quality. Journal of Materials Processing Technology, 2020, 277, 116488.	6.3	24
21	Strengthening of Aluminum Alloy 2219 by Thermo-mechanical Treatment. Journal of Materials Engineering and Performance, 2015, 24, 3905-3911.	2.5	23
22	Geological characteristics of strata in Chongqing, China, and mitigation of the environmental impacts of tunneling-induced geo-hazards. Environmental Earth Sciences, 2017, 76, 1.	2.7	23
23	Dissimilar diffusion bonding behavior of hydrogenated Ti2AlNb-based and Ti-6Al-4V alloys. Materials and Design, 2018, 159, 68-78.	7.0	23
24	Investigations on failure-to-fracture mechanism and prediction of forming limit for aluminum alloy incremental forming process. Journal of Materials Processing Technology, 2020, 282, 116687.	6.3	23
25	Double-sided friction stir spot welding of steel and aluminum alloy sheets. International Journal of Advanced Manufacturing Technology, 2018, 96, 2875-2884.	3.0	22
26	On the calculation of plastic strain by simple method under non-associated flow rule. European Journal of Mechanics, A/Solids, 2018, 67, 45-57.	3.7	21
27	Experiment and numerical simulation on delamination during the laminated steel sheet forming processes. International Journal of Advanced Manufacturing Technology, 2013, 68, 641-649.	3.0	20
28	Reduction of geometric deviation by multi-pass incremental forming combined with tool path compensation for non-axisymmetric aluminum alloy component with stepped feature. International Journal of Advanced Manufacturing Technology, 2019, 102, 809-817.	3.0	19
29	Influence of strain rate on tensile characteristics of SUS304 metastable austenitic stainless steel. Acta Metallurgica Sinica (English Letters), 2013, 26, 657-662.	2.9	18
30	Describing the non-saturating cyclic hardening behavior with a newly developed kinematic hardening model and its application in springback prediction of DP sheet metals. Journal of Materials Processing Technology, 2015, 215, 151-158.	6.3	18
31	Influence of Grain Size on Electrically Assisted Tensile Behavior of Ti-6Al-4V Alloy. Journal of Materials Engineering and Performance, 2016, 25, 4514-4520.	2.5	18
32	Mechanism of the twisting in incremental sheet forming process. Journal of Materials Processing Technology, 2020, 276, 116396.	6.3	18
33	Experimental and numerical investigation of laminated steel sheet in V-bending process considering nonlinear visco-elasticity of polymer layer. Journal of Materials Processing Technology, 2012, 212, 36-45.	6.3	17
34	Die wear prediction by defining three-stage coefficient K for AHSS sheet metal forming process. International Journal of Advanced Manufacturing Technology, 2013, 69, 797-803.	3.0	17
35	Effect of Pulse Current on the Tensile Deformation of SUS304 Stainless Steel. Journal of Materials Engineering and Performance, 2015, 24, 5065-5070.	2.5	17
36	Simulating sheet metal double-sided hydroforming by using thick shell element. Journal of Materials Processing Technology, 2015, 221, 13-20.	6.3	17

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37	Superplastic deformation behavior of Ti-55 alloy without and with 0.1 wt%H addition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 704, 386-390.	5.6	17
38	Springback prediction and compensation for the third generation of UHSS stamping based on a new kinematic hardening model and inertia relief approach. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 90, 875-885.	3.0	17
39	Novel strategies to reduce the springback for double-sided incremental forming. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 96, 973-979.	3.0	17
40	Investigations on the deformation mechanism of a novel three-sheet incremental forming. <i>Journal of Materials Processing Technology</i> , 2020, 281, 116619.	6.3	16
41	Low-temperature superplastic gas bulging of Ti-55 alloy by hydrogen addition. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 12455-12459.	7.1	15
42	A new void coalescence mechanism during incremental sheet forming: Ductile fracture modeling and experimental validation. <i>Journal of Materials Processing Technology</i> , 2021, 298, 117319.	6.3	15
43	A new flow stress model based on Arrhenius equation to track hardening and softening behaviors of Ti6Al4V alloy. <i>Rare Metals</i> , 2018, 37, 1035-1045.	7.1	14
44	Stress Relaxation in Tensile Deformation of 304 Stainless Steel. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 630-635.	2.5	13
45	Influence of curvature variation on edge stretchability in hole expansion and stretch flanging of advanced high-strength steel. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 86, 1083-1094.	3.0	12
46	Grain refinement mechanism of Ti-55 titanium alloy by hydrogenation and dehydrogenation treatment. <i>Materials Characterization</i> , 2019, 157, 109919.	4.4	12
47	A novel two-stage friction stir-assisted incremental sheet forming method for uniform microstructure and enhanced properties in aluminum alloys. <i>International Journal of Machine Tools and Manufacture</i> , 2022, 180, 103928.	13.4	12
48	Numerical simulation of friction stir-assisted incremental forming with synchronous bonding of heterogeneous sheet metals. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 106, 2747-2763.	3.0	11
49	Investigations on deformation mechanism of double-sided incremental sheet forming with synchronous thermomechanical steel-aluminum alloy bonding. <i>Journal of Materials Processing Technology</i> , 2021, 294, 117147.	6.3	11
50	A New Method to Calculate Threshold Values of Ductile Fracture Criteria for Advanced High-Strength Sheet Blanking. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 1296-1306.	2.5	10
51	In Situ TEM Observation on Martensitic Transformation during Tensile Deformation of SUS304 Metastable Austenitic Stainless Steel. <i>Acta Metallurgica Sinica (English Letters)</i> , 2015, 28, 302-306.	2.9	10
52	Role of thermal cycle in joining Ti-6Al-4V and Ti2AlNb-based alloys through diffusion bonding and post heat treatment. <i>Materials Characterization</i> , 2019, 156, 109830.	4.4	10
53	Experimental Investigation on Friction-Stir-Assisted Incremental Forming with Synchronous Bonding of Aluminum Alloy and Steel Sheets. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 750-759.	2.5	10
54	Evaluation of the forming limit of incremental sheet forming based on ductile damage. <i>Journal of Materials Processing Technology</i> , 2021, 287, 116497.	6.3	10

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55	Effect of grain size on the superplastic deformation behavior of Ti-55 alloy. <i>Procedia Engineering</i> , 2017, 207, 1880-1885.	1.2	9
56	Characterization of material flow in friction stir-assisted incremental forming with synchronous bonding of dissimilar sheet metals. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 109, 2523-2534.	3.0	8
57	Static softening characteristics and static recrystallization kinetics of aluminum alloy A6082 after hot deformation. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2010, 15, 307-312.	0.9	7
58	Microstructure and performance evaluations on Q&P hot stamping parts of several UHSS sheet metals. <i>Science China Technological Sciences</i> , 2017, 60, 1692-1701.	4.0	7
59	Ultrafine Grain Refinement and Superplasticity of Ti-55 Alloy Obtained by Hydrogen Absorption and Desorption. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 3472-3477.	2.5	7
60	Tensile deformation behavior of coarse-grained Ti-55 titanium alloy with different hydrogen additions. <i>Rare Metals</i> , 2021, 40, 2092-2098.	7.1	7
61	Investigations on the forming characteristics of a novel flexible incremental sheet forming method for low-ductility metals at room temperature. <i>Journal of Materials Processing Technology</i> , 2022, 301, 117456.	6.3	7
62	Investigations on a novel quadratic spiral tool path and its effect on incremental sheet forming process. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 103, 2953-2964.	3.0	6
63	Analytical model for temperature prediction in friction stir-assisted incremental forming with synchronous bonding of dissimilar sheet metals. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 107, 2177-2187.	3.0	6
64	Dynamic recrystallization and solute precipitation during friction stir assisted incremental forming of AA2024 sheet. <i>Materials Characterization</i> , 2021, 174, 111046.	4.4	6
65	Geometric compensation for automotive stamping die design integrating structure deflection and blank thinning. <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 66, 1449-1456.	3.0	5
66	Experimental investigations on the forming mechanism of a new incremental stretch-flanging strategy with a featured tool. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 92, 2953-2964.	3.0	5
67	Diffusion bonding criterion based on real surface asperities: Modeling and validation. <i>Journal of Manufacturing Processes</i> , 2020, 57, 477-487.	5.9	5
68	A new tool path with point contact and its effect on incremental sheet forming process. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 110, 1515-1525.	3.0	5
69	Numerical Simulation on Edge Crack of Advanced High-Strength Steel Considering Blanking Induced Damage. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 8286-8293.	2.5	5
70	Dynamic recrystallization behavior and microstructural evolution in SPHC steel. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2010, 15, 301-306.	0.9	4
71	Fractional Cooling Strategy of the Hot-Stamping Process and Its Influence on Formability and Mechanical Properties of Ultra-High-Strength Steel Parts. <i>Acta Metallurgica Sinica (English Letters)</i> , 2019, 32, 343-351.	2.9	4
72	New approach for modeling flow stress of aluminum alloy 6A10 considering temperature variation. <i>Transactions of Nonferrous Metals Society of China</i> , 2010, 20, 1482-1487.	4.2	3

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73	Numerical simulation and experiment study on the nuclear fuel spacer grid stamping of Inconel 718. <i>Procedia Engineering</i> , 2017, 207, 1534-1539.	1.2	3
74	Investigation of the Hot Stamping Process for TRIP Steel with High Strength and High Ductility. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 6125-6134.	2.5	3
75	An effective thermal-mechanical coupling method for simulating friction stir-assisted incremental aluminum alloy sheet forming. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 107, 3449-3458.	3.0	3
76	Investigations on the process window for friction stir assisted double-sided incremental forming with synchronous bonding of steel and aluminum alloy sheets. <i>International Journal of Material Forming</i> , 2022, 15, 1.	2.0	3
77	The numerical method for predicting failure in single point incremental forming using a new anisotropic ductile fracture model. <i>Procedia Manufacturing</i> , 2019, 29, 45-52.	1.9	2
78	Global-cumulative incremental hole-flanging by tools with complementary-shape cross section. <i>International Journal of Material Forming</i> , 2019, 12, 899-906.	2.0	2
79	Analytical approaches to describe diffusion bonding of similar and dissimilar materials. <i>Science and Technology of Welding and Joining</i> , 2020, 25, 661-668.	3.1	2
80	An optimum process window to preferable microstructure distribution and improved macroscopic property for friction stir-assisted incremental aluminum alloy sheet forming. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 115, 1589.	3.0	2
81	Experimental and Numerical Investigations of Wear Resistance Characteristics of XCr13 during Advanced High-Strength Steel Stamping. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 4484-4493.	2.5	1
82	Interfacial quality prediction model for Al/steel sheets during friction stir-assisted double-sided incremental forming with synchronous bonding. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 119, 733-743.	3.0	1
83	Flow stress model of stainless steel 0Cr13Ni5Mo at elevated temperature. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2008, 13, 717-720.	0.9	0
84	Investigations on a novel double-surface single point incremental forming process for sharp-corner features. <i>International Journal of Advanced Manufacturing Technology</i> , 0, , .	3.0	0