Wenbin Zhou

List of Publications by Year
in descending order

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Version: 2024-02-01

27 papers	653 citations	516710 16 h-index	580821 25 g-index
28 all docs	28 docs citations	28 times ranked	424 citing authors

#	Article	IF	Citations
1	Feasibility studies of a novel extrusion process for curved profiles: Experimentation and modelling. International Journal of Machine Tools and Manufacture, 2018, 126, 27-43.	13.4	52
2	Preparation and thermodynamic analysis of the porous ZrO2/(ZrO2Â+ÂNi) functionally graded bolted joint. Composites Part B: Engineering, 2015, 82, 13-22.	12.0	49
3	Effects of external mechanical loading on stress generation during lithiation in Li-ion battery electrodes. Electrochimica Acta, 2015, 185, 28-33.	5.2	47
4	Manufacturing a curved profile with fine grains and high strength by differential velocity sideways extrusion. International Journal of Machine Tools and Manufacture, 2019, 140, 77-88.	13.4	47
5	Load distribution in threads of porous metalâ€“ceramic functionally graded composite joints subjected to thermomechanical loading. Composite Structures, 2015, 134, 680-688.	5.8	45
6	THE EFFECTS OF ELASTIC STIFFENING ON THE EVOLUTION OF THE STRESS FIELD WITHIN A SPHERICAL ELECTRODE PARTICLE OF LITHIUM-ION BATTERIES. International Journal of Applied Mechanics, 2013, 05, 1350040.	2.2	42
7	Analysis and modelling of a novel process for extruding curved metal alloy profiles. International Journal of Mechanical Sciences, 2018, 138-139, 524-536.	6.7	38
8	Clarification of the effect of temperature and strain rate on workpiece deformation behaviour in metal forming processes. International Journal of Machine Tools and Manufacture, 2021, 171, 103815.	13.4	37
9	A comparative study on deformation mechanisms, microstructures and mechanical properties of wide thin-ribbed sections formed by sideways and forward extrusion. International Journal of Machine Tools and Manufacture, 2021, 168, 103771.	13.4	33
10	Measuring residual stress and its influence on properties of porous ZrO2/(ZrO2+Ni) ceramics. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 622, 82-90.	5.6	32
11	Advances and Trends in Forming Curved Extrusion Profiles. Materials, 2021, 14, 1603.	2.9	32
12	Design and fabrication of porous ZrO2/(ZrO2+Ni) sandwich ceramics with low thermal conductivity and high strength. Materials & Design, 2014, 62, 1-6.	5.1	28
13	Design and analysis of the porous ZrO 2 /(ZrO 2 +Ni) ceramic joint with load bearingâ€“heat insulation integration. Ceramics International, 2016, 42, 1416-1424.	4.8	23
14	A novel application of sideways extrusion to produce curved aluminium profiles: Feasibility study. Procedia Engineering, 2017, 207, 2304-2309.	1.2	22
15	Effects of die land length and geometry on curvature and effective strain of profiles produced by a novel sideways extrusion process. Journal of Materials Processing Technology, 2020, 282, 116682.	6.3	22
16	Analytical modeling of thermal residual stresses and optimal design of ZrO2/(ZrO2+Ni) sandwich ceramics. Ceramics International, 2015, 41, 8142-8148.	4.8	18
17	Effect of pin arrangement on formed shape with sparse multi-point flexible tool for creep age forming. International Journal of Machine Tools and Manufacture, 2019, 140, 48-61.	13.4	15
18	Influence of strain, temperature, and strain rate on interfacial structure and strength of AZ31BMg/6063Al formed by plastic deformation bonding. Journal of Manufacturing Processes, 2021, 65, 299-311.	5.9	12

#	Article	IF	Citations
19	Upper bound analysis of differential velocity sideways extrusion process for curved profiles using a fan-shaped flow line model. International Journal of Lightweight Materials and Manufacture, 2018, 1, 21-32.	2.1	10
20	An analytical solution for elastic buckling analysis of stiffened panel subjected to pure bending. International Journal of Mechanical Sciences, 2019, 161-162, 105024.	6.7	10
21	An upper bound solution for deformation field analysis in differential velocity sideways extrusion using a unified stream function. International Journal of Mechanical Sciences, 2022, 224, 107323.	6.7	9
22	Elastic-plastic buckling analysis of stiffened panel subjected to global bending in forming process. Aerospace Science and Technology, 2021, 115, 106781.	4.8	7
23	Experimental and numerical investigations on buckling behaviour of stiffened panel during creep age forming. Thin-Walled Structures, 2022, 172, 108940.	5.3	7
24	Characterization of Alginateâ€“Gelatinâ€“Cholesteryl Ester Liquid Crystals Bioinks for Extrusion Bioprinting of Tissue Engineering Scaffolds. Polymers, 2022, 14, 1021.	4.5	6
25	Non-linear finite element investigation of formability limit by buckling in creep age forming of stiffened panels. Procedia Manufacturing, 2020, 50, 625-629.	1.9	4
26	Bending Behaviour Analysis of Aluminium Profiles in Differential Velocity Sideways Extrusion Using a General Flow Field Model. Metals, 2022, 12, 877.	2.3	4
27	An investigation of damage healing in high temperature compressive forming process. Procedia Manufacturing, 2020, 50, 602-608.	1.9	2