

Wenbin Zhou

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

653
citations

516710

16
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580821

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28
docs citations

28
times ranked

424
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and numerical investigations on buckling behaviour of stiffened panel during creep age forming. <i>Thin-Walled Structures</i> , 2022, 172, 108940.	5.3	7
2	Characterization of Alginate-Gelatin-Cholesteryl Ester Liquid Crystals Bioinks for Extrusion Bioprinting of Tissue Engineering Scaffolds. <i>Polymers</i> , 2022, 14, 1021.	4.5	6
3	An upper bound solution for deformation field analysis in differential velocity sideways extrusion using a unified stream function. <i>International Journal of Mechanical Sciences</i> , 2022, 224, 107323.	6.7	9
4	Bending Behaviour Analysis of Aluminium Profiles in Differential Velocity Sideways Extrusion Using a General Flow Field Model. <i>Metals</i> , 2022, 12, 877.	2.3	4
5	Advances and Trends in Forming Curved Extrusion Profiles. <i>Materials</i> , 2021, 14, 1603.	2.9	32
6	Influence of strain, temperature, and strain rate on interfacial structure and strength of AZ31BMg/6063Al formed by plastic deformation bonding. <i>Journal of Manufacturing Processes</i> , 2021, 65, 299-311.	5.9	12
7	Elastic-plastic buckling analysis of stiffened panel subjected to global bending in forming process. <i>Aerospace Science and Technology</i> , 2021, 115, 106781.	4.8	7
8	A comparative study on deformation mechanisms, microstructures and mechanical properties of wide thin-ribbed sections formed by sideways and forward extrusion. <i>International Journal of Machine Tools and Manufacture</i> , 2021, 168, 103771.	13.4	33
9	Clarification of the effect of temperature and strain rate on workpiece deformation behaviour in metal forming processes. <i>International Journal of Machine Tools and Manufacture</i> , 2021, 171, 103815.	13.4	37
10	An investigation of damage healing in high temperature compressive forming process. <i>Procedia Manufacturing</i> , 2020, 50, 602-608.	1.9	2
11	Non-linear finite element investigation of formability limit by buckling in creep age forming of stiffened panels. <i>Procedia Manufacturing</i> , 2020, 50, 625-629.	1.9	4
12	Effects of die land length and geometry on curvature and effective strain of profiles produced by a novel sideways extrusion process. <i>Journal of Materials Processing Technology</i> , 2020, 282, 116682.	6.3	22
13	An analytical solution for elastic buckling analysis of stiffened panel subjected to pure bending. <i>International Journal of Mechanical Sciences</i> , 2019, 161-162, 105024.	6.7	10
14	Manufacturing a curved profile with fine grains and high strength by differential velocity sideways extrusion. <i>International Journal of Machine Tools and Manufacture</i> , 2019, 140, 77-88.	13.4	47
15	Effect of pin arrangement on formed shape with sparse multi-point flexible tool for creep age forming. <i>International Journal of Machine Tools and Manufacture</i> , 2019, 140, 48-61.	13.4	15
16	Analysis and modelling of a novel process for extruding curved metal alloy profiles. <i>International Journal of Mechanical Sciences</i> , 2018, 138-139, 524-536.	6.7	38
17	Upper bound analysis of differential velocity sideways extrusion process for curved profiles using a fan-shaped flow line model. <i>International Journal of Lightweight Materials and Manufacture</i> , 2018, 1, 21-32.	2.1	10
18	Feasibility studies of a novel extrusion process for curved profiles: Experimentation and modelling. <i>International Journal of Machine Tools and Manufacture</i> , 2018, 126, 27-43.	13.4	52

#	ARTICLE	IF	CITATIONS
19	A novel application of sideways extrusion to produce curved aluminium profiles: Feasibility study. <i>Procedia Engineering</i> , 2017, 207, 2304-2309.	1.2	22
20	Design and analysis of the porous ZrO ₂ /(ZrO ₂ +Ni) ceramic joint with load bearing"heat insulation integration. <i>Ceramics International</i> , 2016, 42, 1416-1424.	4.8	23
21	Effects of external mechanical loading on stress generation during lithiation in Li-ion battery electrodes. <i>Electrochimica Acta</i> , 2015, 185, 28-33.	5.2	47
22	Analytical modeling of thermal residual stresses and optimal design of ZrO ₂ /(ZrO ₂ +Ni) sandwich ceramics. <i>Ceramics International</i> , 2015, 41, 8142-8148.	4.8	18
23	Load distribution in threads of porous metal"ceramic functionally graded composite joints subjected to thermomechanical loading. <i>Composite Structures</i> , 2015, 134, 680-688.	5.8	45
24	Preparation and thermodynamic analysis of the porous ZrO ₂ /(ZrO ₂ +Ni) functionally graded bolted joint. <i>Composites Part B: Engineering</i> , 2015, 82, 13-22.	12.0	49
25	Measuring residual stress and its influence on properties of porous ZrO ₂ /(ZrO ₂ +Ni) ceramics. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 622, 82-90.	5.6	32
26	Design and fabrication of porous ZrO ₂ /(ZrO ₂ +Ni) sandwich ceramics with low thermal conductivity and high strength. <i>Materials & Design</i> , 2014, 62, 1-6.	5.1	28
27	THE EFFECTS OF ELASTIC STIFFENING ON THE EVOLUTION OF THE STRESS FIELD WITHIN A SPHERICAL ELECTRODE PARTICLE OF LITHIUM-ION BATTERIES. <i>International Journal of Applied Mechanics</i> , 2013, 05, 1350040.	2.2	42