

Wenbin Zhou

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

635
citations

516710

16
h-index

580821

25
g-index

25
all docs

25
docs citations

25
times ranked

419
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	Advances and Trends in Forming Curved Extrusion Profiles. <i>Materials</i> , 2021, 14, 1603.	2.9	32
12	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
13	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
14	A novel application of sideways extrusion to produce curved aluminium profiles: Feasibility study. <i>Procedia Engineering</i> , 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. <i>Journal of Materials Processing Technology</i> , 2020, 282, 116682.	6.3	22
16	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
17	The study of central cracking mechanism and criterion in cross wedge rolling. <i>International Journal of Machine Tools and Manufacture</i> , 2020, 159, 103647.	13.4	16
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Investigation of High Voltage Polymeric Insulators Performance under Wet Pollution. Polymers, 2022, 14, 1236.	4.5	7
22	Characterization of Alginate-Gelatin-Cholesteryl Ester Liquid Crystals Bioinks for Extrusion Bioprinting of Tissue Engineering Scaffolds. Polymers, 2022, 14, 1021.	4.5	6
23	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
24	Bending Behaviour Analysis of Aluminium Profiles in Differential Velocity Sideways Extrusion Using a General Flow Field Model. Metals, 2022, 12, 877.	2.3	4
25	An investigation of damage healing in high temperature compressive forming process. Procedia Manufacturing, 2020, 50, 602-608.	1.9	2