

Lech Olejnik

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

817
citations

623188

14
h-index

552369

26
g-index

44
all docs

44
docs citations

44
times ranked

603
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of grain size and grain boundary misorientation on the corrosion resistance of commercially pure aluminium. <i>Corrosion Science</i> , 2019, 148, 57-70.	3.0	98
2	Micro-extrusion of ultra-fine grained aluminium. <i>International Journal of Advanced Manufacturing Technology</i> , 2007, 33, 137-146.	1.5	82
3	The role of microstructure and texture in controlling mechanical properties of AZ31B magnesium alloy processed by I-ECAP. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 638, 20-29.	2.6	81
4	Simulation of wrinkling in sheet metal forming. <i>Journal of Materials Processing Technology</i> , 2001, 109, 283-289.	3.1	48
5	Microstructure and mechanical properties of friction stir welded joints made from ultrafine grained aluminium 1050. <i>Materials and Design</i> , 2015, 88, 22-31.	3.3	45
6	Grain refinement in technically pure aluminium plates using incremental ECAP processing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 636, 172-180.	2.6	42
7	Mechanical Properties and Microstructure of AZ31B Magnesium Alloy Processed by I-ECAP. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 1609-1620.	1.1	33
8	Micro-extrusion of ultrafine grained copper. <i>International Journal of Material Forming</i> , 2008, 1, 455-458.	0.9	27
9	Incremental Equal Channel Angular Pressing for Grain Refinement. <i>Materials Science Forum</i> , 0, 674, 19-28.	0.3	27
10	Incremental ECAP of Plates. <i>Materials Science Forum</i> , 0, 584-586, 108-113.	0.3	26
11	Double-Billet Incremental ECAP. <i>Materials Science Forum</i> , 0, 584-586, 139-144.	0.3	25
12	In situ analysis of the influence of twinning on the strain hardening rate and fracture mechanism in AZ31B magnesium alloy. <i>Journal of Materials Science</i> , 2015, 50, 2532-2543.	1.7	25
13	FEM Simulation of Incremental Shear. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	23
14	Similar and dissimilar welds of ultrafine grained aluminium obtained by friction stir welding. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 777, 139076.	2.6	21
15	Application of linear friction welding for joining ultrafine grained aluminium. <i>Journal of Manufacturing Processes</i> , 2020, 56, 540-549.	2.8	19
16	Manufacturing of coarse and ultrafine-grained aluminum matrix composites reinforced with Al ₂ O ₃ nanoparticles via friction stir processing. <i>Journal of Manufacturing Processes</i> , 2022, 80, 359-373.	2.8	19
17	Ultrafine-Grained Plates of Al-Mg-Si Alloy Obtained by Incremental Equal Channel Angular Pressing: Microstructure and Mechanical Properties. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 4871-4882.	1.1	18
18	Route Effects in I-ECAP of AZ31B Magnesium Alloy. <i>Key Engineering Materials</i> , 0, 554-557, 876-884.	0.4	15

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19	The influence of an ECAP-based deformation process on the microstructure and properties of electrolytic tough pitch copper. <i>Journal of Materials Science</i> , 2018, 53, 3862-3875.	1.7	13
20	Microforming and Nanomaterials. , 2007, , 99-124.		11
21	Incremental ECAP as a Method to Produce Ultrafine Grained Aluminium Plates. <i>Key Engineering Materials</i> , 2016, 710, 59-64.	0.4	11
22	Producing High-Strength Metals by ECAP. <i>Advanced Engineering Materials</i> , 2016, 18, 219-223.	1.6	11
23	Microstructure and Corrosion Behavior of the Friction Stir Welded Joints Made from Ultrafine Grained Aluminum. <i>Advanced Engineering Materials</i> , 2017, 19, 1600807.	1.6	10
24	A new hybrid process to produce ultrafine grained aluminium plates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 714, 105-116.	2.6	10
25	Investigation of fatigue crack growth rate of Al 5484 ultrafine grained alloy after ECAP process. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 1132-1135.	0.8	8
26	Severe plastic deformation by incremental angular splitting. <i>Journal of Materials Science</i> , 2013, 48, 4557-4562.	1.7	8
27	Tailored Sheared Blanks Produced by Incremental ECAP. <i>Key Engineering Materials</i> , 0, 651-653, 651-656.	0.4	6
28	Welding abilities of UFG metals. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	6
29	Microstructure, tensile properties and formability of ultrafine-grained Al-Mn square plates processed by Incremental ECAP. <i>Materials and Design</i> , 2020, 196, 109125.	3.3	6
30	Enhancing the Electrical Conductivity of Electrolytic Tough Pitch Copper Rods Processed by Incremental Equal Channel Angular Pressing. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 3749-3753.	1.1	6
31	Incremental ECAP with Converging Billets. <i>Key Engineering Materials</i> , 0, 554-557, 869-875.	0.4	4
32	The Effect of Initial Grain Size on Formability of AZ31B Magnesium Alloy during I-ECAP. <i>Key Engineering Materials</i> , 2014, 611-612, 573-580.	0.4	4
33	Evolution of pitting corrosion resistance and mechanical properties in ultrafine-grained commercially pure aluminium during annealing. <i>Journal of Materials Science</i> , 2021, 56, 16726-16744.	1.7	4
34	Application of Electron Beam Welding Technique for Joining Ultrafine-Grained Aluminum Plates. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2022, 53, 18-24.	1.1	4
35	New SPD Process of Incremental Angular Splitting. <i>Key Engineering Materials</i> , 2012, 504-506, 569-574.	0.4	3
36	Incremental non-equal channel angular pressing FE simulation. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	3

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37	Forming Ability of Ultrafine-Grained Aluminum Plates Processed by Incremental Equal Channel Angular Pressing. <i>Advanced Engineering Materials</i> , 2019, 21, 1900473.	1.6	3
38	Effect of microstructural features on the corrosion behavior of severely deformed Al-Mg-Si alloy. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2021, 72, 868-878.	0.8	3
39	Solid-state welding of ultrafine grained copper rods. <i>Archives of Civil and Mechanical Engineering</i> , 2021, 21, 1.	1.9	3
40	Electronic labelling in recycling of manufactured articles. <i>Journal of Environmental Management</i> , 2002, 66, 395-409.	3.8	2
41	Incremental ECAP of Tubular Components-FE Simulation. , 2011, , .		2
42	New method of producing tailored blanks with constant thickness. <i>Procedia Engineering</i> , 2017, 207, 1433-1438.	1.2	2
43	Current Practice and Future Opportunities for Two-Turn ECAP. <i>Materials Science Forum</i> , 2010, 667-669, 121-126.	0.3	0
44	A Method of Forming Oblique Rings. <i>Procedia Engineering</i> , 2014, 81, 568-573.	1.2	0