

Henryk Paul

List of Publications by Year in descending order

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90
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830
citing authors

#	ARTICLE	IF	CITATIONS
1	Shear banding and recrystallization nucleation in a Cu-2%Al alloy single crystal. <i>Acta Materialia</i> , 2002, 50, 815-830.	3.8	106
2	Microstructure and Phase Constitution Near the Interface of Explosively Welded Aluminum/Copper Plates. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 3836-3851.	1.1	85
3	The role of shear banding on deformation texture in low stacking fault energy metals as characterized on model Ag crystals. <i>Acta Materialia</i> , 2007, 55, 575-588.	3.8	68
4	Shear band microtexture formation in twinned face centred cubic single crystals. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003, 359, 178-191.	2.6	66
5	On twinning and shear banding in a Cu-8at.% Al alloy plane strain compressed at 77K. <i>International Journal of Plasticity</i> , 2009, 25, 1588-1608.	4.1	59
6	Microstructure and phase constitution in the bonding zone of explosively welded tantalum and stainless steel sheets. <i>Materials and Design</i> , 2018, 153, 177-189.	3.3	57
7	Crystallographic aspects of the early stages of recrystallisation in brass-type shear bands. <i>Acta Materialia</i> , 2002, 50, 4339-4355.	3.8	45
8	Microstructure and microtexture evolution during strain path changes of an initially stable Cu single crystal. <i>Acta Materialia</i> , 2010, 58, 2799-2813.	3.8	40
9	Recrystallization mechanisms of low stacking fault energy metals as characterized on model silver single crystals. <i>Acta Materialia</i> , 2007, 55, 833-847.	3.8	38
10	New orientation formation and growth during primary recrystallization in stable single crystals of three face-centred cubic metals. <i>Acta Materialia</i> , 2015, 83, 120-136.	3.8	38
11	The Effect of Interface Morphology on the Electro-Mechanical Properties of Ti/Cu Clad Composites Produced by Explosive Welding. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 750-766.	1.1	34
12	Static and fatigue tests of bimetal Zr-steel made by explosive welding. <i>Engineering Failure Analysis</i> , 2017, 75, 71-81.	1.8	31
13	Orientation precision of TEM-based orientation mapping techniques. <i>Ultramicroscopy</i> , 2014, 136, 107-118.	0.8	30
14	Recrystallization nucleation in stable aluminium-base single crystals: Crystallography and mechanisms. <i>Acta Materialia</i> , 2017, 125, 109-124.	3.8	30
15	Effect of impact loading and heat treatment on microstructure and properties of multi-layered AZ31/AA1050 plates fabricated by single-shot explosive welding. <i>Materials and Design</i> , 2022, 214, 110411.	3.3	28
16	Microstructure heterogeneity after the ECAP process and its influence on recrystallization in aluminium. <i>Materials Characterization</i> , 2013, 78, 60-68.	1.9	27
17	Microstructure and interfacial reactions in the bonding zone of explosively welded Zr700 and carbon steel plates. <i>International Journal of Materials Research</i> , 2015, 106, 782-792.	0.1	27
18	Mechanism of macroscopic shear band formation in plane strain compressed fine-grained aluminium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 642, 167-180.	2.6	27

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19	The influence of deformation texture on nucleation and growth of cube grains during primary recrystallization of AA1050 alloy. <i>Acta Materialia</i> , 2017, 129, 378-387.	3.8	27
20	Microstructure and properties of the interfacial region in explosively welded and post-annealed titanium-copper sheets. <i>Materials Characterization</i> , 2020, 167, 110520.	1.9	25
21	Towards a better understanding of the phase transformations in explosively welded copper to titanium sheets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 784, 139285.	2.6	25
22	Characterization of continuous dynamic recrystallization in WE43 magnesium alloy. <i>Materials Chemistry and Physics</i> , 2021, 257, 123726.	2.0	23
23	Characterization of ultrafine and nano grained magnesium alloy processed by severe plastic deformation. <i>Materials Characterization</i> , 2014, 87, 27-35.	1.9	22
24	Strain hardening and microstructure evolution of channel-die compressed aluminium bicrystals. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 477, 282-294.	2.6	21
25	The Effect of Stand-Off Distance on the Structure and Properties of Zirconium " Carbon Steel Bimetal Produced by Explosion Welding / WpÅ,yw OdlegÅ,oÅci Blach Na StrukturÅ™ I WÅ,asnoÅci Bimetalu Cyrkon - Stal Wytworzonego TechnologiÅ... Zgrzewania Wybuchowego. <i>Archives of Metallurgy and Materials</i> , 2012, 57, 1201-1210.	0.6	21
26	Early Stages of Recrystallization in Equal-Channel Angular Pressing (ECAP)-Deformed AA3104 Alloy Investigated Using Scanning Electron Microscopy (SEM) and Transmission Electron Microscopy (TEM) Orientation Mappings. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 4777-4793.	1.1	19
27	Nucleation of recrystallization in channel-die compressed Al single crystals. <i>Materials Chemistry and Physics</i> , 2003, 81, 531-534.	2.0	15
28	Residual Stresses in Explosively Welded Plates Made of Titanium Grade 12 and Steel with Interlayer. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 4571-4581.	1.2	14
29	Structural Properties of Interfacial Layers in Tantalum to Stainless Steel Clad with Copper Interlayer Produced by Explosive Welding. <i>Metals</i> , 2020, 10, 969.	1.0	14
30	Influence of Impact Velocity on the Residual Stress, Tensile Strength, and Structural Properties of an Explosively Welded Composite Plate. <i>Materials</i> , 2020, 13, 2686.	1.3	14
31	Microstructure and Texture of Copper Single Crystal of (112)[1] Orientation Undergoing Channel-Die Compression at 77 K. <i>Journal of Materials Processing Technology</i> , 1995, 53, 187-194.	3.1	13
32	Microstructure and mechanical properties of multi-layered Al/Ti composites produced by explosive welding. <i>Procedia Manufacturing</i> , 2018, 15, 1391-1398.	1.9	12
33	Mechanisms of New Orientation Formation during Recrystallization of Old Deformed Aluminium Bicrystals. <i>Materials Science Forum</i> , 2005, 495-497, 1249-1254.	0.3	11
34	Multi billet extrusion technology for manufacturing bi-layered components. <i>CIRP Annals - Manufacturing Technology</i> , 2012, 61, 235-238.	1.7	11
35	Strain-induced nano recrystallization in AZ31 magnesium: TEMÅcharacterization. <i>Journal of Alloys and Compounds</i> , 2017, 699, 796-802.	2.8	11
36	New Orientation Formation During Recrystallization of Cold Deformed, High Symmetry Aluminium Bicrystals. <i>Mikrochimica Acta</i> , 2006, 155, 235-242.	2.5	10

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37	The Effect of Heat Treatment on the Properties of Zirconium - Carbon Steel Bimetal Produced By Explosion Welding. Archives of Metallurgy and Materials, 2014, 59, 1143-1149.	0.6	10
38	Interfacial Reactions during Explosive Bonding. Materials Science Forum, 0, 783-786, 1476-1481.	0.3	8
39	TEM Orientation Mapping Applied to the Study of Shear Band Formation. Mikrochimica Acta, 2004, 147, 181-186.	2.5	7
40	TEM and SEM analyses of the orientation relations of recrystallized grains in a stable Al-1 wt.%Mn single crystal. Materials Characterization, 2016, 112, 68-80.	1.9	7
41	TEM Orientation Imaging in Characterization of Texture Changes in FCC Metals. Advanced Engineering Materials, 2010, 12, 1029-1036.	1.6	6
42	Microstructure and Mechanical Properties of Ti/Cu Clads Manufactured by Explosive Bonding at Different Stand-Off Distances. Key Engineering Materials, 0, 716, 464-471.	0.4	6
43	Recrystallization Nucleation in Some Channel Die Deformed, High Symmetry Aluminium Bicrystals. Materials Science Forum, 2004, 467-470, 171-176.	0.3	5
44	Deformation Structure and Texture Transformations in Twinned Fcc Metals: Critical Role of Micro- and Macro- Scale Shear Bands. Materials Science Forum, 2007, 550, 521-526.	0.3	5
45	Experimental Investigation of Texture Gradients in Aluminium/Copper Plates Bonded through Explosive Welding Process. Materials Science Forum, 0, 702-703, 603-606.	0.3	5
46	Scanning electron microscopy and transmission electron microscopy in situ studies of grain boundary migration in cold-deformed aluminium bicrystals. Journal of Microscopy, 2006, 223, 264-267.	0.8	4
47	Orientation Imaging in Scanning Electron and Transmission Electron Microscopy for Characterization of the Shear Banding Phenomenon. Mikrochimica Acta, 2006, 155, 243-250.	2.5	4
48	Microstructure Development in the Bonding Zone of Explosively Welded Ti and Cu Sheets. Materials Science Forum, 0, 1016, 1114-1120.	0.3	4
49	The Formation of New Orientations during Recrystallization of Silver Single Crystals with {112}<111> Initial Orientation. Materials Science Forum, 2004, 467-470, 177-182.	0.3	3
50	Shear banding in twinned structure of copper deformed at 77ÅK. Journal of Microscopy, 2006, 223, 256-259.	0.8	3
51	Effect of Strain Path on Microstructure and Texture Development in ECAP Processed AA3104 Alloy. Solid State Phenomena, 2010, 160, 265-272.	0.3	3
52	Early Stages of Recrystallization in ECAP-Deformed AA1050 Alloy Investigated by SEM Orientation Mapping. Materials Science Forum, 2013, 753, 267-270.	0.3	3
53	EXPERIMENTAL INVESTIGATIONS OF THE BONDING ZONE IN THE EXPLOSIVE WELDING OF A DIFFERENTLY STRUCTURED STEEL-ZIRCONIUM PLATERS. Journal of Machine Engineering, 2019, 19, 99-110.	0.9	3
54	Study of the Microtexture of Recrystallized Aluminium. Mikrochimica Acta, 2004, 145, 153-158.	2.5	2

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55	Influence of Grain Misorientation on Material Hardening on Example of Aluminium Bicrystals Deformed in Channel Die at 77K. <i>Mechanics of Advanced Materials and Structures</i> , 2007, 14, 687-697.	1.5	2
56	Microstructure and Texture Evolutions in AA1200 Aluminum Alloy Deformed by Accumulative Roll Bonding Method. <i>Solid State Phenomena</i> , 0, 186, 112-115.	0.3	2
57	Influence of the Microstructure near the Interface on the Fatigue Life of Explosively Welded (Carbon) Tj ETQq1 1 0.784314 rgBT /Over 0.4	0.4	2
58	Numerical Modelling of Explosive Welding on the Basis of the Coupled Eulerian Lagrangian Approach. <i>Key Engineering Materials</i> , 2015, 651-653, 1415-1420.	0.4	2
59	Influence of the Microstructure on the Fatigue Cracks Growth in the Joint Zirconium-Steel Made by Explosive Welding. <i>Solid State Phenomena</i> , 0, 258, 619-622.	0.3	2
60	Influence of explosive welding parameters on properties of bimetal Ti-carbon steel. <i>MATEC Web of Conferences</i> , 2017, 94, 02012.	0.1	2
61	Interfacial Reactions in the Bonding Zones of Explosively Welded Tantalum to Stainless Steel Sheets. <i>Advanced Engineering Materials</i> , 2021, 23, 2001521.	1.6	2
62	Influence of Shear Banding on the Texture in Rolled and Channel-Die Compressed Polycrystalline Copper. <i>Materials Science Forum</i> , 1994, 157-162, 1231-1236.	0.3	1
63	The Effect of Shear Bands on the Evolution of Rolling and Recrystallization Texture in Cold-Rolled Direct Chill Cast Strips of Brass. <i>Materials Science Forum</i> , 1998, 273-275, 333-338.	0.3	1
64	Numerical Analysis of the Microstructure and Mechanical Properties Evolution during Equal Channel Angular Pressing. <i>Materials Science Forum</i> , 2010, 638-642, 1940-1945.	0.3	1
65	Microstructural and Textural Aspects of Shear Banding in Plane Strain Deformed Fcc Metals. <i>Solid State Phenomena</i> , 2010, 160, 257-264.	0.3	1
66	Nucleation of Recrystallization in Fine Grained AA3104 Alloy Analyzed by SEM and TEM Orientation Mappings. <i>Materials Science Forum</i> , 0, 702-703, 324-327.	0.3	1
67	Near Grain Boundary Behavior of Aluminum Bicrystals Deformed in Plane Strain Conditions. <i>Solid State Phenomena</i> , 0, 186, 108-111.	0.3	1
68	Recrystallization Twinning in Stable Single Crystals of Cu-2%Al and Al-1%Mn Alloys. <i>Materials Science Forum</i> , 2016, 879, 2428-2433.	0.3	1
69	Free surface effects on the recrystallization of compressed, stable, Al-Mn single crystals. <i>Materials Characterization</i> , 2018, 146, 135-148.	1.9	1
70	Mechanisms of New Orientation Formation during Recrystallization of Old Deformed Aluminium Bicrystals. <i>Materials Science Forum</i> , 0, , 1249-1254.	0.3	1
71	On Recrystallization Twinning in Al-1%wt.Mn Single Crystals of Two Stable Orientations. , 2016, , 43-49.		1
72	Fatigue life and cyclic creep of tantalum/copper/steel layerwise plates under tension loading at room temperature. <i>International Journal of Fatigue</i> , 2022, 162, 106977.	2.8	1

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73	Early Stages of the Recrystallization Texture Formation in {112}<111> - Oriented Silver Single Crystals. Materials Science Forum, 2002, 408-412, 809-814.	0.3	0
74	Shear Banding in Twinned Structures and Their Influence on Brass-Type Texture. Materials Science Forum, 2005, 495-497, 1067-1072.	0.3	0
75	Activated Slip Systems and Nucleation of Recrystallized Grains in Aluminium Deformed in Channel-Die. Materials Science Forum, 2007, 558-559, 289-294.	0.3	0
76	Crystallographic Aspects of Deformation and Recrystallization in ECAP-Processed AA3104 Aluminium Alloy. Solid State Phenomena, 0, 186, 98-103.	0.3	0
77	Recrystallization of ECAP-Processed AA4343 Aluminium Alloy Containing Large Second Phase Particles. Materials Science Forum, 2013, 753, 239-242.	0.3	0
78	Disorientation Relations during the Early Stages of Recrystallization in Medium and Low SFE fcc Metals. Materials Science Forum, 0, 783-786, 2585-2590.	0.3	0
79	Recrystallization Behaviour of Plane Strain Deformed Al-Mn-Mg-Sc-Zr Alloy. Solid State Phenomena, 0, 231, 1-10.	0.3	0
80	Recrystallization Nucleation and Grain Growth in Al-1%wt.Mn Single Crystals of Stable Orientations. , 2016, , 223-229.		0
81	Shear Banding in Polycrystalline Aluminium and Copper Pre-Deformed by ECAP and Subsequently Plane Strain Compressed. Key Engineering Materials, 2016, 716, 240-247.	0.4	0
82	Influence of long-lasting heat treatments on the structure and properties of the zirconium-steel bond. E3S Web of Conferences, 2017, 19, 03031.	0.2	0
83	Cube{100}<001> Grains Nucleation during Annealing of S-Oriented Aluminum Single Crystal. Materials Science Forum, 2018, 941, 1511-1516.	0.3	0
84	Gradient microstructure in the bonding zone of explosively welded sheets. Procedia Manufacturing, 2020, 50, 689-695.	1.9	0
85	On Recrystallization Twinning in Al-1%wt.Mn Single Crystals of Two Stable Orientations. , 0, , 43-49.		0
86	Recrystallization Nucleation and Grain Growth in Al-1%wt.Mn Single Crystals of Stable Orientations. , 0, , 223-229.		0