

Mirosław Wróbel

List of Publications by Year in descending order

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42
papers

295
citations

1040056

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14
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all docs

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docs citations

42
times ranked

182
citing authors

#	ARTICLE	IF	CITATIONS
1	Texture effects due to asymmetric rolling of polycrystalline copper. <i>Acta Materialia</i> , 2017, 139, 30-38.	7.9	21
2	Recrystallization in severely deformed Ag, Au, and Fe studied by positron annihilation and XRD methods. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 2031-2042.	1.5	19
3	Stress measurements by multi-reflection grazing-incidence X-ray diffraction method (MGIXD) using different radiation wavelengths and different incident angles. <i>Acta Materialia</i> , 2017, 123, 157-166.	7.9	19
4	The effect of in vitro corrosion on the mechanical properties of metallic high strength biodegradable surgical threads. <i>Archives of Civil and Mechanical Engineering</i> , 2020, 20, 1.	3.8	16
5	Use of positron annihilation measurements to detect the defect beneath worn surface of stainless steel 1.4301 (EN) under dry sliding condition. <i>Wear</i> , 2012, 294-295, 264-269.	3.1	14
6	Positron Studies of Subsurface Zone in Titanium Created in Sliding Wear. <i>Tribology Letters</i> , 2014, 55, 413-419.	2.6	14
7	Evolution of phase stresses in Al/SiCp composite during thermal cycling and compression test studied using diffraction and self-consistent models. <i>Journal of Materials Science and Technology</i> , 2020, 36, 176-189.	10.7	14
8	Analysis of stresses and crystal structure in the surface layer of hexagonal polycrystalline materials: a new methodology based on grazing incidence diffraction. <i>Journal of Applied Crystallography</i> , 2016, 49, 85-102.	4.5	13
9	Mechanical and microstructural characteristics of polycrystalline copper rolled asymmetrically to a high deformation level. <i>Materials Characterization</i> , 2019, 148, 214-223.	4.4	12
10	Problem of elastic anisotropy and stacking faults in stress analysis using multireflection grazing-incidence X-ray diffraction. <i>Journal of Applied Crystallography</i> , 2015, 48, 492-509.	4.5	9
11	Micromechanical behaviour of a two-phase Ti alloy studied using grazing incidence diffraction and a self-consistent model. <i>Acta Materialia</i> , 2017, 136, 402-414.	7.9	9
12	Gradient Microstructure Induced by Surface Mechanical Attrition Treatment (SMAT) in Magnesium Studied Using Positron Annihilation Spectroscopy and Complementary Methods. <i>Materials</i> , 2020, 13, 4002.	2.9	9
13	Positron Annihilation and Complementary Studies of Copper Sandblasted with Alumina Particles at Different Pressures. <i>Materials</i> , 2017, 10, 1343.	2.9	8
14	A multireflection and multiwavelength residual stress determination method using energy dispersive diffraction. <i>Journal of Applied Crystallography</i> , 2018, 51, 732-745.	4.5	8
15	Detection of tribolayer in pure iron using positron annihilation and EBSD techniques. <i>Tribology International</i> , 2020, 144, 106133.	5.9	8
16	Gradient of Residual Stress and Lattice Parameter in Mechanically Polished Tungsten Measured Using Classical X-rays and Synchrotron Radiation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 5945-5957.	2.2	8
17	Neutron Diffraction Study of Phase Stresses in Al/SiCp Composite During Tensile Test. <i>Metals and Materials International</i> , 2019, 25, 657-668.	3.4	7
18	Microstructure and mechanical properties of Titanium grade 23 produced by selective laser melting. <i>Archives of Civil and Mechanical Engineering</i> , 2021, 21, 1.	3.8	7

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19	Topography and residual stress analysis for Cu/Au/Co multilayered system. <i>Surface and Coatings Technology</i> , 2019, 380, 125060.	4.8	6
20	Detection of dynamical recrystallization in a tribolayer of pure molybdenum using positron annihilation and EBSD techniques. <i>Wear</i> , 2021, 466-467, 203524.	3.1	6
21	Direct diffraction measurement of critical resolved shear stresses and stress localisation in magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 801, 140400.	5.6	6
22	Evolution and thermal stability of the subsurface zone in copper formed in dry and lubricated sliding tests studied by positron annihilation and EBSD techniques. <i>Wear</i> , 2021, 486-487, 204077.	3.1	6
23	Gradient Microstructure Induced by Surface Mechanical Attrition Treatment in Grade 2 Titanium Studied Using Positron Annihilation Spectroscopy and Complementary Methods. <i>Materials</i> , 2021, 14, 6347.	2.9	6
24	Observation of the Recrystallization Process in Pure Nb and Zr Using Positron Lifetime Spectroscopy and XRD Techniques. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1800051.	1.5	5
25	Rolling asymmetry effects on recrystallization process and on properties and microstructure of annealed copper. <i>Materials Characterization</i> , 2019, 153, 136-147.	4.4	5
26	Production of zinc wire for use as a high strength biodegradable surgical threads. <i>Procedia Manufacturing</i> , 2020, 50, 757-760.	1.9	5
27	Recovery and recrystallization in molybdenum studied by positron annihilation and X-ray methods. <i>International Journal of Refractory Metals and Hard Materials</i> , 2021, 97, 105514.	3.8	5
28	Manufacture technology, mechanical and biocorrosion properties of the Zn and ZnMg0.008 alloy wires designed for biodegradable surgical threads. <i>Journal of Manufacturing Processes</i> , 2021, 67, 513-520.	5.9	5
29	Multireflection grazing-incidence X-ray diffraction: a new approach to experimental data analysis. <i>Journal of Applied Crystallography</i> , 2019, 52, 1409-1421.	4.5	4
30	Mechanical properties, crystallographic texture, and in vitro bio-corrosion of low-alloyed Zn-Mg, produced by hot and cold drawing for biodegradable surgical wires. <i>Archives of Civil and Mechanical Engineering</i> , 2021, 21, 1.	3.8	4
31	Investigation of the workability and surface roughness of thin brass wires in various dieless drawing technologies. <i>Archives of Civil and Mechanical Engineering</i> , 2022, 22, 1.	3.8	4
32	Recovery and recrystallization in vanadium foil studied by positron annihilation and X-ray methods. <i>International Journal of Refractory Metals and Hard Materials</i> , 2022, 103, 105759.	3.8	4
33	The influence of the parameters of hot drawing of MgCa alloys wires on the mechanical properties that determine the applicability of the material as a high strength biodegradable surgical thread. <i>Procedia Manufacturing</i> , 2020, 50, 804-808.	1.9	3
34	Surface and Subsurface Defects Studies of Dental Alloys Exposed to Sandblasting. <i>Acta Metallurgica Sinica (English Letters)</i> , 2019, 32, 1181-1194.	2.9	2
35	Physical Modelling of Strain Induced Roughness of Copper Wire during Dieless Drawing Process. <i>Materials Science Forum</i> , 0, 1016, 900-905.	0.3	1
36	DIELESS DRAWING PROCESS FOR ELONGATION OF THIN COPPER AND COPPER ALLOY WIRE. <i>Journal of Metallic Materials</i> , 2019, 71, 12-15.	0.0	1

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37	Microstructure and In Vitro Evaluation of Extruded and Hot Drawn Alloy MgCa0.7 for Biodegradable Surgical Wires. <i>Materials</i> , 2021, 14, 6673.	2.9	1
38	Experimental and Numerical Study of Surface Roughness of Thin Brass Wire Processed by Different Dieless Drawing Processes. <i>Materials</i> , 2022, 15, 35.	2.9	1
39	Neutron Diffraction Study of Elastoplastic Behaviour of Al/SiCp Metal Matrix Composite. <i>Materials Science Forum</i> , 2017, 905, 66-73.	0.3	0
40	The Dieless Drawing Process for the Elongation of Ultrafine Copper and Brass Wire. <i>Minerals, Metals and Materials Series</i> , 2021, , 467-478.	0.4	0
41	Electrochemical Deposition of Mo-Se Thin Films. <i>ECS Meeting Abstracts</i> , 2014, , .	0.0	0
42	The Hardening in Alloys and Composites and Its Examination with a Diffraction and Self-Consistent Model. <i>Fatigue of Aircraft Structures</i> , 2018, 2018, 31-46.	0.3	0