

Milan Uhrň-Äik

List of Publications by Year in descending order

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49
papers

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1307594

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194
citing authors

#	ARTICLE	IF	CITATIONS
1	The Effect of the δ -Al ₅ FeSi Phases on Microstructure, Mechanical and Fatigue Properties in A356.0 Cast Alloys with Higher Fe Content without Additional Alloying of Mn. <i>Materials</i> , 2021, 14, 1943.	2.9	9
2	Corrosion Resistance of AISI 316L Stainless Steel Biomaterial after Plasma Immersion Ion Implantation of Nitrogen. <i>Materials</i> , 2021, 14, 6790.	2.9	9
3	Influence of Hydrogen Embrittlement on Fatigue Life of Titanium Endoprosthesis. , 2021, , .		0
4	The Hardness Evolution of Cast and the High-Cycle Fatigue Life Change of Wrought Ni-Base Superalloys after Additional Heat Treatment. <i>Materials</i> , 2021, 14, 7427.	2.9	6
5	Investigation of Barkhausen Noise Emission in Steel Wires Subjected to Different Surface Treatments. <i>Coatings</i> , 2020, 10, 912.	2.6	7
6	Amplitude Dependent Internal Friction in Strained Magnesium Alloys of AZ Series. <i>Crystals</i> , 2020, 10, 608.	2.2	2
7	A study of hip joint replacement failure. <i>Materials Today: Proceedings</i> , 2020, 32, 179-182.	1.8	1
8	Susceptibility to the intergranular attack in austenitic stainless steels. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 726, 012017.	0.6	1
9	PMMA birefringence-based optical sensor of load. , 2020, , .		1
10	Odporność na korozję TM austenitycznej stali nierdzewnej poddanej chemicznej obróbce w różnych temperaturach. <i>Przemysł Chemiczny</i> , 2020, 1, 46-49.	0.0	1
11	Integrity assessment and determination of residual fatigue life of vital parts of bucket-wheel excavator operating under dynamic loads. <i>Engineering Failure Analysis</i> , 2019, 105, 182-195.	4.0	18
12	The effect of iron content on fatigue lifetime of AlZn10Si8Mg cast alloy. <i>International Journal of Fatigue</i> , 2019, 128, 105189.	5.7	7
13	Photoelastic response of polycarbonate in NIR. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	2
14	Changes in internal damping of selected types of austenitic stainless steels. <i>Transportation Research Procedia</i> , 2019, 40, 68-73.	1.5	1
15	Analysis of dependence of internal damping on temperature of austenitic steels AISI 304 and AISI 316L. <i>Transportation Research Procedia</i> , 2019, 40, 107-112.	1.5	1
16	Influence of Welding on Dynamic Fracture Toughness of Strenx 700MC Steel. <i>Metals</i> , 2019, 9, 494.	2.3	8
17	Quality Assessment of Al Castings Produced in Sand Molds Using Image and CT Analyses. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 3966-3973.	2.5	1
18	Effect of Wall Thickness on the Quality of Casts from Secondary Aluminium Alloy. <i>Manufacturing Technology</i> , 2019, 19, 797-801.	1.4	5

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19	Comparison of temperature dependence of internal damping of selected magnesium alloys. Production Engineering Archives, 2019, 22, 7-10.	2.4	1
20	Influence of the Welding Joint Type on Safety Properties of the Armor Steel Armox 500t. System Safety Human - Technical Facility - Environment, 2019, 1, 753-759.	0.1	0
21	Multiaxial Fatigue Experimental Analysis of 6063-T66 Aluminum Alloy of the Base Material and the Welded Material. Quality Production Improvement - QPI, 2019, 1, 334-341.	0.2	0
22	High Load-Induced Birefringence of PMMA Investigated in VIS/NIR Spectral Range. Advances in Electrical and Electronic Engineering, 2019, 17, .	0.3	0
23	Analysis of the Cause of Titanium Endoprosthesis Failure. Manufacturing Technology, 2019, 19, 749-752.	1.4	4
24	Temperature dependent measurement of internal damping of austenitic stainless steels. MATEC Web of Conferences, 2018, 157, 07008.	0.2	5
25	Microstructure, mechanical and fatigue properties of SiMo- and SiCu- nodular cast irons. Procedia Structural Integrity, 2018, 13, 1527-1532.	0.8	6
26	The Fatigue lifetime of AlZn10Si8Mg cast alloy with different percentage of iron. Procedia Structural Integrity, 2018, 13, 1554-1559.	0.8	3
27	Analysis of dependence of internal damping on temperature of austenitic steels. Procedia Structural Integrity, 2018, 13, 1571-1576.	0.8	1
28	Change of magnetic properties in austenitic stainless steels due to plastic deformation. Procedia Structural Integrity, 2018, 13, 1689-1694.	0.8	8
29	Fatigue limit estimation using IR camera. MATEC Web of Conferences, 2018, 157, 05021.	0.2	8
30	Porosity formation and fatigue properties of AlSiCu cast alloy. MATEC Web of Conferences, 2018, 157, 07003.	0.2	4
31	The influence of the structure on the fatigue properties of aluminium alloys for the casting. MATEC Web of Conferences, 2018, 157, 07013.	0.2	6
32	Photoelastic birefringence of polycarbonate as a basis for optical sensors of load. AIP Conference Proceedings, 2018, , .	0.4	3
33	Investigation of birefringence of elastically deformed poly(methyl methacrylate). , 2018, , .		0
34	Change of Internal Friction on Magnesium Alloy with 5.48% Al and 0.813% Zn. Procedia Engineering, 2017, 177, 568-575.	1.2	5
35	Fracture mechanism differences created by fatigue and impact test. Materials Today: Proceedings, 2017, 4, 5921-5924.	1.8	5
36	The Influence of the Structure on the Fatigue Properties of Al-Mg Cast Alloy. Archives of Metallurgy and Materials, 2017, 62, 1615-1624.	0.6	2

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37	Effect of cyclic loading on the internal damping of magnesium alloy AZ31. Production Engineering Archives, 2017, 15, 7-10.	2.4	0
38	Rheological Measurement of Polymeric Composites before and after UV Degradation. Manufacturing Technology, 2017, 17, 507-512.	1.4	1
39	Effect of Heat Treatment on the Behavior of AZ31 and AZ91 Magnesium Alloys During the Cyclic Loading. Materials Today: Proceedings, 2016, 3, 965-968.	1.8	3
40	The Stress Detection of Stainless Steel AISI 304, AISI 316L and AISI 316Ti During Three-point Bending Cyclic Loading. Materials Today: Proceedings, 2016, 3, 1189-1194.	1.8	6
41	Fatigue of nodular cast iron at high frequency loading. Materialwissenschaft Und Werkstofftechnik, 2016, 47, 436-443.	0.9	6
42	The Influence of Two Different Casting Moulds on the Fatigue Properties of the Al-Si-Cu Cast Alloy. Advanced Structured Materials, 2016, , 61-70.	0.5	4
43	Change of Internal Friction on Aluminium Alloy with 10.1 % Mg Dependence on the Temperature. Manufacturing Technology, 2014, 14, 467-470.	1.4	6
44	Modeling and Experimental Analysis of the Aluminium Alloy Fatigue Damage in the case of Bending & Torsion Loading. Procedia Engineering, 2012, 48, 599-606.	1.2	44
45	Structural Analysis of Plastic Deformation around the Crack Initiated in Austenitic Stainless Steel. Materials Science Forum, 0, 891, 225-229.	0.3	0
46	The Failure Degradation of Recycled Aluminium Alloys with High Content of Al_2Al & FeSi Intermetallic Phases. Defect and Diffusion Forum, 0, 403, 97-102.	0.4	1
47	Corrosion Properties of Electropolished AISI 316L Austenitic Biomaterial in Relation to Electropolishing Conditions. Medziagotyra, 0, , X.	0.2	1
48	Fatigue Behavior of Titanium Endoprosthesis. Defect and Diffusion Forum, 0, 405, 312-317.	0.4	0
49	Influence of Cyclic Loading on the Internal Friction Measured on Magnesium Alloys AZ31, AZ61 and AZ91. Defect and Diffusion Forum, 0, 405, 318-323.	0.4	0