Jacek Sawicki

List of Publications by Year
in descending order

47	406	840776 11	839539 18
papers	citations	h-index	g-index

48	48	48	213
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Influence of application of hybrid MQL-CCA method of applying coolant during hob cutter sharpening on cutting blade surface condition. Journal of Cleaner Production, 2018, 171, 892-910.	9.3	45
2	A Study of Second-Phase Precipitates and Dispersoid Particles in 2024 Aluminum Alloy after Different Aging Treatments. Materials, 2019, 12, 4168.	2.9	34
3	The Effect of the Quenching Method on the Deformations Size of Gear Wheels after Vacuum Carburizing. Archives of Metallurgy and Materials, 2016, 61, 1057-1062.	0.6	24
4	Elimination of galvanic copper plating process used in hardening of conventionally carburized gear wheels. International Journal of Automotive Technology, 2010, 11, 127-131.	1.4	23
5	The Influence of 3D Printing Parameters on Adhesion between Polylactic Acid (PLA) and Thermoplastic Polyurethane (TPU). Materials, 2021, 14, 6464.	2.9	23
6	Optimization of the Heat Treatment and Tribological Properties of 2024 and 7075 Aluminium Alloys. Archives of Metallurgy and Materials, 2013, 58, 535-540.	0.6	18
7	Numerical analysis of coolant flow in the grinding zone. International Journal of Advanced Manufacturing Technology, 2019, 104, 1999-2012.	3.0	18
8	THE INFLUENCE OF GRINDING CONDITIONS ON THE DISTRIBUTION OF RESIDUAL STRESS IN THE SURFACE LAYER OF 17crni6-6 STEEL AFTER CARBURIZING. Advances in Science and Technology Research Journal, 2017, 11, 17-22.	0.8	18
9	Technological Surface Layer Selection for Small Module Pitches of Gear Wheels Working under Cyclic Contact Loads. Materials Science Forum, 2006, 513, 69-74.	0.3	16
10	Nanoindentation Study of Intermetallic Particles in 2024 Aluminium Alloy. Coatings, 2020, 10, 846.	2.6	13
11	HARDENING-RELATED DEFORMATIONS OF GEAR WHEELS AFTER VACUUM CARBURISING AND QUENCHING IN GAS. Advances in Science and Technology Research Journal, 2017, 11, 237-245.	0.8	13
12	System of single-piece flow case hardening for high volume production. Archives of Materials Science and Engineering, 2016, 79, 37-44.	1.1	13
13	The influence of chemical groups on the mechanical properties of SiCNH coatings deposited on 7075 aluminum alloy. Thin Solid Films, 2013, 534, 15-21.	1.8	12
14	Chemical Modification of Cellulose Microfibres to Reinforce Poly(methyl methacrylate) Used for Dental Application. Materials, 2020, 13, 3807.	2.9	11
15	Application of numerical simulation to determine ability of air used in MQL method to clean grinding wheel active surface during sharpening of hob cutters. International Journal of Precision Engineering and Manufacturing - Green Technology, 2021, 8, 1095-1112.	4.9	11
16	Neural computing for a low-frictional coatings manufacturing of aircraft enginesâ€™ piston rings. Neural Computing and Applications, 2019, 31, 4891-4901.	5.6	10
17	Influence of Resin Cement Thickness and Elastic Modulus on the Stress Distribution of Zirconium Dioxide Inlay-Bridge: 3D Finite Element Analysis. Polymers, 2021, 13, 3863.	4.5	9
18	Effect of double-phase segregations formed due to two-stage aging on the strength properties of alloy PN-EN 2024. Metal Science and Heat Treatment, 2013, 54, 477-482.	0.6	8

#	Article	IF	Citations
19	Finite-Element Analysis of Residual Stresses Generated Under Nitriding Process: a Three-Dimensional Model. Metal Science and Heat Treatment, 2018, 59, 799-804.	0.6	8
20	The Influence of the Depth of Grinding on the Condition of the Surface Layer of 20MnCr5 Steel Ground with the Minimum Quantity Lubrication (MQL) Method. Materials, 2022, 15, 1336.	2.9	8
21	Method of Determining the Strain Hardening of Carburized Elements in Ansys Environment. Solid State Phenomena, 2015, 240, 74-80.	0.3	7
22	Algorithm Scheme to Simulate the Distortions during Gas Quenching in a Single-Piece Flow Technology. Coatings, 2020, 10, 694.	2.6	7
23	Investigation of an Advanced Cellulose Profile Used for the Manufacture of Gating Systems. Archives of Foundry Engineering, 2014, 14, 123-128.	0.4	6
24	Influence different amount of cellulose on the mechanical strength of dental acrylic resin. IOP Conference Series: Materials Science and Engineering, 2020, 743, 012044.	0.6	4
25	Numerical Analysis of Thermal Stresses in Carbon Films Obtained by the Rf Pecvd Method on the Surface of a Cannulated Screw / Analiza Numeryczna Naprezen Cieplnych W Warstwie Weglowej Otrzymanej W Procesie Rf Pecvd Na Powierzchni Wkreta Kostnego. Archives of Metallurgy and Materials, 2013, 58, 77-81.	0.6	3
26	Modeling of Thermal Phenomena and Economic Aspect of Configuring Furnace Graphite Insulation. Metal Science and Heat Treatment, 2015, 56, 685-689.	0.6	3
27	Gas Emissivity of a Modified Cellulose Mix at the Temperature of 900Â°C. Archives of Foundry Engineering, 2015, 15, 91-94.	0.4	3
28	Numerical simulation of phase transformation during gas quenching after low pressure carburizing. IOP Conference Series: Materials Science and Engineering, 2020, 743, 012047.	0.6	3
29	Preliminary Experimental Investigation of Cut-Resistant Materials: A Biomimetic Perspective. Autex Research Journal, 2022, 22, 411-418.	1.1	3
30	EXPANDED PERLITE, EXPANDED VERMICULITE AND MICROSPHERES AS FILLERS IN NEW GENERATION PAPER PULP MIXTURES USED FOR CONTACT WITH LIQUID METAL. Advances in Science and Technology Research Journal, 0, 9, 83-88.	0.8	3
31	Analysis of the Impact of Double Shot Peening on the Value of Roughness Parameter and Distribution of Stresses in the RSA 501 Alloy (Al Mg5 Mn1 Sc0.8 Zr0.4). Advances in Science and Technology Research Journal, 2017, 11, 1-9.	0.8	3
32	APPLICATION OF AN EQUIVALENT TRUSS MODEL FOR DETERMINING THE STRESS STATE IN MULTI-PHASE MATERIALS WITH CELLULAR AUTOMATA METHOD. Advances in Science and Technology Research Journal, 2017, 11, 51-57.	0.8	3
33	Gas Evolution Quantitative Analysis at a Temperature of 900Â°C of a Cellulose Mixture Modified by Mineral Additives. Archives of Metallurgy and Materials, 2016, 61, 1051-1055.	0.6	3
34	The impact of nozzle configuration on the heat transfer coefficient. Archives of Materials Science and Engineering, 2018, 1, 16-24.	1.1	3
35	Modeling of mechanical behavior of double-phase precipitates in 2024 aluminum alloy. AIP Conference Proceedings, 2019, , .	0.4	2
36	Numerical analysis of the influence of surface modification on the bond strength between a single incisal tooth with a removable partial denture metal framework. AIP Conference Proceedings, 2019, , .	0.4	2

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37	Numerical Analysis of the Bond Strength between Two Methacrylic Polymers by Surface Modification. Materials, 2021, 14, 3927.	2.9	2
38	Effect of Stages of Vacuum Carburizing on Deformations in Splines of Steels 16MnCr5, AMS6265 and 17CrNiMo7-6. Metal Science and Heat Treatment, 2021, 62, 572-576.	0.6	2
39	Gas Evolution Qualitative Analyses From Modified Cellulose Mixtures During Thermal Degradation in Air and Argon. Advances in Science and Technology Research Journal, 2017, 11, 24-30.	0.8	2
40	Synergy of the Plastic Treatment HPT and Shot Peening in Aluminium Alloy Al-Mg-Mn-Sc-Zr. Archives of Metallurgy and Materials, 2016, 61, 1135-1142.	0.6	2
41	Comparison of mechanical behaviour of microstructures of 2024 aluminium alloy containing precipitates of different morphologies. IOP Conference Series: Materials Science and Engineering, 2020, 743, 012052.	0.6	1
42	Assessment of morphological differences of the proximal tibia in healthy knees: analysis of the 3-dimensional mathematical model. Quantitative Imaging in Medicine and Surgery, 2021, 11, 4354-4364.	2.0	1
43	Numerical optimization of the system supplying the cooling and lubricating fluid to the cutting zone. AIP Conference Proceedings, 2019, , .	0.4	0
44	The gas evolution of a modified cellulose mixture used for gating systems in the no-bake mould process. Journal of Thermal Analysis and Calorimetry, 0, , 1.	3.6	0
45	Shot blasting dust as a filler in elastomer composites. Journal of Elastomers and Plastics, 2021, 53, 1105-1127.	1.5	0
46	Mathematical model for determining the expenditure of cooling and lubricating fluid reaching directly the grinding zone. Archives of Materials Science and Engineering, 2018, 1, 27-34.	1.1	0
47	Granulacja odpadowego pyÅ‚u perlitowego. Przemysl Chemiczny, 2019, 1, 66-71.	0.0	0