Marcin Basiaga

List of Publications by Year
in descending order

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76	723	623734	642732
papers	citations	14 h-index	23 g-index

80	80	80	854
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structure and properties of Al2O3 thin films deposited by ALD process. Vacuum, 2016, 131, 319-326.	3.5	50
2	Surface characterisation and corrosion behaviour of niobium treated in a Ca- and P-containing solution under sparking conditions. Electrochimica Acta, 2016, 198, 91-103.	5.2	42
3	Effects of the sources of calcium and phosphorus on the structural and functional properties of ceramic coatings on titanium dental implants produced by plasma electrolytic oxidation. Materials Science and Engineering C, 2021, 119, 111607.	7.3	42
4	Influence of process parameters on plasma electrolytic surface treatment of tantalum for biomedical applications. Applied Surface Science, 2017, 407, 52-63.	6.1	41
5	Evaluation of physicochemical properties of surface modified Ti6Al4V and Ti6Al7Nb alloys used for orthopedic implants. Materials Science and Engineering C, 2016, 68, 851-860.	7.3	34
6	Atomic layer deposited ZnO films on stainless steel for biomedical applications. Archives of Civil and Mechanical Engineering, 2021, 21, 1.	3.8	34
7	On the electropolishing and anodic oxidation of Ti-15Mo alloy. Electrochimica Acta, 2016, 205, 256-265.	5.2	32
8	The influence of atomic layer deposition process temperature on ZnO thin film structure. Applied Surface Science, 2019, 474, 177-186.	6.1	26
9	Evaluation of physicochemical properties of SiO2-coated stainless steel after sterilization. Materials Science and Engineering C, 2016, 63, 155-163.	7.3	22
10	Influence of surgical drills wear on thermal process generated in bones. Acta of Bioengineering and Biomechanics, 2013, 15, 19-23.	0.4	22
11	Influence of ALD process parameters on the physical and chemical properties of the surface of vascular stents. Archives of Civil and Mechanical Engineering, 2017, 17, 32-42.	3.8	20
12	Influence of Surface Modification on Properties of Stainless Steel Used for Implants / WpÅ‚yw Modyfikacji Powierzchni Na WÅ‚aÅ›ciwoÅ›ci Stali Nierdzewnej Stosowanej Na Implanty. Archives of Metallurgy and Materials, 2015, 60, 2965-2970.	0.6	17
13	Comparison of biodegradable poly(glycolide-É›-caprolactone) and poly(glycolide-É›-caprolactone-d,l-lactide) coatings enriched with ciprofloxacin formed on Ti6Al4V alloy. Polymer Degradation and Stability, 2018, 155, 136-144.	5.8	14
14	The effect of EO and steam sterilization on the mechanical and electrochemical properties of titanium Grade 4. Materiali in Tehnologije, 2016, 50, 153-158.	0.5	14
15	Numerical and experimental analyses of drills used in osteosynthesis. Acta of Bioengineering and Biomechanics, 2011, 13, 29-36.	0.4	14
16	Mechanical properties of atomic layer deposition (ALD) TiO₂ layers on stainless steel substrates. Materialwissenschaft Und Werkstofftechnik, 2016, 47, 512-520.	0.9	13
17	Lactoferrin and collagen type I as components of composite formed on titanium alloys for bone replacement. Surface and Coatings Technology, 2017, 328, 1-12.	4.8	13
18	The influence of plasma-sprayed coatings on surface properties and corrosion resistance of 316L stainless steel for possible implant application. Archives of Civil and Mechanical Engineering, 2021, 21, 1.	3.8	13

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19	Structure and Properties of ZnO Coatings Obtained by Atomic Layer Deposition (ALD) Method on a Cr-Ni-Mo Steel Substrate Type. Materials, 2020, 13, 4223.	2.9	12
20	Biomechanical Analysis of Lumbar Spine Stabilization by Means of Transpedicular Stabilizer. Advances in Soft Computing, 2008, , 529-536.	0.4	12
21	Perspectives in Prevention of Biofilm for Medical Applications. Coatings, 2022, 12, 197.	2.6	12
22	Porous titania films fabricated via sol gel rout â€“ Optical and AFM characterization. Optical Materials, 2016, 56, 64-70.	3.6	11
23	Study of the Morphology and Properties of Biocompatible Ca-P Coatings on Mg Alloy. Materials, 2020, 13, 2.	2.9	11
24	Biodegradable polymer coatings on Ti6Al7Nb alloy. Acta of Bioengineering and Biomechanics, 2019, 21, .	0.4	11
25	The effects of a SiO2coating on the corrosion parameters cpTi and Ti-6Al-7Nb alloy. Biomatter, 2014, 4, e28535.	2.6	10
26	Influence of surface modification of Ti6Al7Nb alloy on adhesion of poly (lactide-co-glycolide) coating (PLGA). Colloids and Surfaces B: Biointerfaces, 2020, 196, 111280.	5.0	10
27	Technological capabilities of surface layers formation on implant made of Ti-6Al-4V ELI alloy. Acta of Bioengineering and Biomechanics, 2015, 17, 31-7.	0.4	10
28	Impact of Surface Treatment on the Functional Properties Stainless Steel for Biomedical Applications. Materials, 2020, 13, 4767.	2.9	9
29	EIS Study of SiO2 Oxide Film on 316L Stainless Steel for Cardiac Implants. Advances in Intelligent Systems and Computing, 2014, , 403-410.	0.6	9
30	Electrochemical Impedance Spectroscopy and Corrosion Resistance of SiO2 Coated CpTi and Ti-6Al-7Nb Alloy. Advances in Intelligent Systems and Computing, 2014, , 411-420.	0.6	8
31	Biomechanical Behaviour of Surgical Drills in Simulated Conditions of Drilling in a Bone. Advances in Intelligent and Soft Computing, 2010, , 473-481.	0.2	8
32	The Influence of Magnetron Sputtering Process Temperature on ZnO Thin-Film Properties. Coatings, 2021, 11, 1507.	2.6	8
33	Ageing of Zirconia Dedicated to Dental Prostheses for Bruxers Part 1: Influence of Accelerating Ageing for Surface Topography and Mechanical Properties. Reviews on Advanced Materials Science, 2019, 58, 189-194.	3.3	7
34	Antimicrobial PVDF nanofiber composites with the ZnO - vermiculite - chlorhexidine based nanoparticles and their tensile properties. Polymer Testing, 2021, 103, 107367.	4.8	7
35	Ageing of Zirconia Dedicated to Dental Prostheses for Bruxers Part 2: Influence of Heat Treatment for Surface Morphology, Phase Composition and Mechanical Properties. Reviews on Advanced Materials Science, 2019, 58, 218-225.	3.3	7
36	Selected Physicochemical Properties of Diamond Like Carbon (DLC) Coating on Ti-13Nb-13Zr Alloy Used for Blood Contacting Implants. Materials, 2020, 13, 5077.	2.9	6

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37	Physical Properties of Electropolished CoCrMo Alloy Coated with Biodegradable Polymeric Coatings Releasing Heparin after Prolonged Exposure to Artificial Urine. Materials, 2021, 14, 2551.	2.9	6
38	Application of ALD Thin Films on the Surface of the Surgical Scalpel Blade. Coatings, 2021, 11, 1096.	2.6	6
39	Potentiostatic, Potentiodynamic and Impedance Study of TiO2 Layers Deposited of 316 LVM Steel Used for Coronary Stents. Archives of Metallurgy and Materials, 2016, 61, 821-824.	0.6	5
40	Influence of surface modification on physico-chemical properties of Ti6Al7Nb alloy. Surface and Coatings Technology, 2016, 307, 753-760.	4.8	5
41	Novel crosslinkable polyester resinâ€“based composites as injectable bioactive scaffolds. International Journal of Polymeric Materials and Polymeric Biomaterials, 2017, 66, 1-11.	3.4	5
42	Electrochemical and Biological Performance of Biodegradable Polymer Coatings on Ti6Al7Nb Alloy. Materials, 2020, 13, 1758.	2.9	5
43	Phase composition and morphology characteristics of ceria-stabilized zirconia powders obtained via sol-gel method with various pH conditions. Acta of Bioengineering and Biomechanics, 2017, 19, 21-30.	0.4	5
44	Tests of Threaded Connections Made by Additive Manufacturing Technologies. Advances in Intelligent Systems and Computing, 2019, , 329-337.	0.6	4
45	Adhesion of Poly(lactide-glycolide) Coating (PLGA) on the Ti6Al7Nb Alloy Substrate. Advances in Intelligent Systems and Computing, 2019, , 578-589.	0.6	4
46	Corrosion Resistance of Ti6Al7Nb Alloy after Various Surface Modifications. Solid State Phenomena, 0, 227, 483-486.	0.3	3
47	Surface modification of titanium 6â€aluminum 7â€niobium alloy with biodegradable polymer coatings. Materialwissenschaft Und Werkstofftechnik, 2020, 51, 613-623.	0.9	3
48	Comparative characteristics of endodontic drills. Acta of Bioengineering and Biomechanics, 2015, 17, 75-83.	0.4	3
49	Biodegradable polymer coatings on Ti6Al7Nb alloy. Acta of Bioengineering and Biomechanics, 2019, 21, 83-92.	0.4	3
50	Influence of Ultrasound Bone Union Stimulation on Corrosion Resistance of Titanium Alloys. Solid State Phenomena, 0, 227, 463-466.	0.3	2
51	Nonstandard Optical Methods as a Tool for Rough Surface Analysis. Materials Today: Proceedings, 2015, 2, 4046-4052.	1.8	2
52	Nano-Scale Structure Investigation of Vapour Deposited AlCrSiN Coating Using Transmission Electron Microscope Techniques. Archives of Metallurgy and Materials, 2016, 61, 837-842.	0.6	2
53	Investigations of mechanical properties of SiO2 coatings deposited by sol-gel method on cpTi and Ti-6Al-7Nb alloy. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2016, 230, 799-804.	1.1	2
54	Effect of thin SiO₂ layers deposited by means of atomic layer deposition method on the mechanical and physical properties of stainless steel. Materialwissenschaft Und Werkstofftechnik, 2018, 49, 562-567.	0.9	2

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55	The effect of electron beam sterilization on the physical properties of the bioresorbable polymer coatings on the titanium 6â€aluminum 4â€vanadium substrate. Materialwissenschaft Und Werkstofftechnik, 2020, 51, 631-644.	0.9	2
56	Numerical Analysis of Taylor-Type External Fixator by Means of FEM. Advances in Intelligent Systems and Computing, 2014, , 387-394.	0.6	2
57	Study of the Electrochemical Properties of 316LVM Steel with TiO2 Layer Deposited by Means of the ALD Method. Advanced Structured Materials, 2017, , 297-308.	0.5	2
58	Mechanical Properties of Anodically Oxidized cpTi and Ti-6Al-7Nb Alloy. Advanced Structured Materials, 2015, , 123-132.	0.5	2
59	Mechanical properties of selected polymeric surgical sutures. Polimery, 2016, 61, 334-338.	0.7	2
60	Microstructure and antibacterial properties of a ZnO coating on a biomaterial surface. Archives of Civil and Mechanical Engineering, 2022, 22, .	3.8	2
61	Influence of the Ion Nitriding Process on the Electrochemical Properties of X39Cr13 Steel Used for Surgical Instruments. Solid State Phenomena, 2013, 212, 111-114.	0.3	1
62	Electrochemical Properties of cpTi with Modified Surface Used for Implants in Blood and Vascular System. Solid State Phenomena, 0, 227, 487-490.	0.3	1
63	Impact of Surface Modification of Ti-6Al-7Nb Alloy on Electrochemical Properties in the Environment of Artificial Blood Plasma. Solid State Phenomena, 0, 227, 491-494.	0.3	1
64	Electrochemical Properties of $$TiO_{2}$$ Oxide Layer Deposited on Ti6Al7Nb Alloy. Advances in Intelligent Systems and Computing, 2017, , 3-10.	0.6	1
65	The influence of the parameters of the zinc oxide layer deposition process using the atomic layer deposition method on the physical and mechanical properties of 316LVM steel. Materialwissenschaft Und Werkstofftechnik, 2020, 51, 624-630.	0.9	1
66	Evaluation of electrochemical properties of antibacterial ZnO layers deposited to 316LVM steel using atomic layer deposition. Materialwissenschaft Und Werkstofftechnik, 2020, 51, 569-578.	0.9	1
67	Tin dioxide in terms of physical properties on steel AISI 316 LVM. Materialwissenschaft Und Werkstofftechnik, 2022, 53, 517-525.	0.9	1
68	Biomechanical Analysis of Selected Endoprostheses of Hip Joint by Means of Finite Element Methods. Solid State Phenomena, 0, 226, 29-32.	0.3	0
69	Electrochemical Corrosion of Magnesium Alloy for Cardiac Implants in Artificial Plasma Solution. Solid State Phenomena, 2016, 246, 105-108.	0.3	0
70	Characteristics of Surface Layers of Ti6Al4V Implants. Advances in Intelligent Systems and Computing, 2017, , 76-84.	0.6	0
71	Analysis of the corrosion protective ability of atomic layer deposition silicaâ€based coatings deposited on 316LVM steel. Materialwissenschaft Und Werkstofftechnik, 2018, 49, 551-561.	0.9	0
72	Physicochemical properties of a Ti67 alloy after EO and steam sterilization. Materiali in Tehnologije, 2016, 50, 323-329.	0.5	0

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73	Comparison of the physicochemical properties of Al2O3 layers applied to the surfaces of cpTi and the Ti6Al7Nb alloy using the ALD method. Materiali in Tehnologije, 2017, 51, 637-641.	0.5	0
74	Study of Physicochemical Properties ofÂCoCrMo Alloy with PLCL Polymer Coating Intended for Urology. Advances in Intelligent Systems and Computing, 2021, , 259-268.	0.6	0
75	Effect of Carbon Layers Deposited by PACVD and RMS Methods on Corrosion Resistance of Ni-Ti Alloy. Advances in Intelligent Systems and Computing, 2021, , 279-287.	0.6	0
76	Biomechanical analysis of limited-contact plate used for osteosynthesis. Acta of Bioengineering and Biomechanics, 2014, 16, 99-105.	0.4	0