

# Marcin Basiaga

## List of Publications by Year in descending order

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80  
docs citations

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times ranked

854  
citing authors

#	ARTICLE	IF	CITATIONS
1	Perspectives in Prevention of Biofilm for Medical Applications. <i>Coatings</i> , 2022, 12, 197.	2.6	12
2	Microstructure and antibacterial properties of a ZnO coating on a biomaterial surface. <i>Archives of Civil and Mechanical Engineering</i> , 2022, 22, .	3.8	2
3	Tin dioxide in terms of physical properties on steel AISI 316 LVM. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2022, 53, 517-525.	0.9	1
4	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. <i>Materials Science and Engineering C</i> , 2021, 119, 111607.	7.3	42
5	Atomic layer deposited ZnO films on stainless steel for biomedical applications. <i>Archives of Civil and Mechanical Engineering</i> , 2021, 21, 1.	3.8	34
6	Physical Properties of Electropolished CoCrMo Alloy Coated with Biodegradable Polymeric Coatings Releasing Heparin after Prolonged Exposure to Artificial Urine. <i>Materials</i> , 2021, 14, 2551.	2.9	6
7	Application of ALD Thin Films on the Surface of the Surgical Scalpel Blade. <i>Coatings</i> , 2021, 11, 1096.	2.6	6
8	The influence of plasma-sprayed coatings on surface properties and corrosion resistance of 316L stainless steel for possible implant application. <i>Archives of Civil and Mechanical Engineering</i> , 2021, 21, 1.	3.8	13
9	Antimicrobial PVDF nanofiber composites with the ZnO - vermiculite - chlorhexidine based nanoparticles and their tensile properties. <i>Polymer Testing</i> , 2021, 103, 107367.	4.8	7
10	Study of Physicochemical Properties of CoCrMo Alloy with PLCL Polymer Coating Intended for Urology. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 259-268.	0.6	0
11	Effect of Carbon Layers Deposited by PACVD and RMS Methods on Corrosion Resistance of Ni-Ti Alloy. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 279-287.	0.6	0
12	The Influence of Magnetron Sputtering Process Temperature on ZnO Thin-Film Properties. <i>Coatings</i> , 2021, 11, 1507.	2.6	8
13	Study of the Morphology and Properties of Biocompatible Ca-P Coatings on Mg Alloy. <i>Materials</i> , 2020, 13, 2.	2.9	11
14	Selected Physicochemical Properties of Diamond Like Carbon (DLC) Coating on Ti-13Nb-13Zr Alloy Used for Blood Contacting Implants. <i>Materials</i> , 2020, 13, 5077.	2.9	6
15	Influence of surface modification of Ti6Al7Nb alloy on adhesion of poly (lactide-co-glycolide) coating (PLGA). <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 196, 111280.	5.0	10
16	Structure and Properties of ZnO Coatings Obtained by Atomic Layer Deposition (ALD) Method on a Cr-Ni-Mo Steel Substrate Type. <i>Materials</i> , 2020, 13, 4223.	2.9	12
17	Impact of Surface Treatment on the Functional Properties Stainless Steel for Biomedical Applications. <i>Materials</i> , 2020, 13, 4767.	2.9	9
18	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. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2020, 51, 624-630.	0.9	1

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19	Evaluation of electrochemical properties of antibacterial ZnO layers deposited to 316LVM steel using atomic layer deposition. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2020, 51, 569-578.	0.9	1
20	The effect of electron beam sterilization on the physical properties of the bioresorbable polymer coatings on the titanium 6â€aluminum 4â€vanadium substrate. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2020, 51, 631-644.	0.9	2
21	Surface modification of titanium 6â€aluminum 7â€niobium alloy with biodegradable polymer coatings. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2020, 51, 613-623.	0.9	3
22	Electrochemical and Biological Performance of Biodegradable Polymer Coatings on Ti6Al7Nb Alloy. <i>Materials</i> , 2020, 13, 1758.	2.9	5
23	Ageing of Zirconia Dedicated to Dental Prostheses for Bruxers Part 1: Influence of Accelerating Ageing for Surface Topography and Mechanical Properties. <i>Reviews on Advanced Materials Science</i> , 2019, 58, 189-194.	3.3	7
24	The influence of atomic layer deposition process temperature on ZnO thin film structure. <i>Applied Surface Science</i> , 2019, 474, 177-186.	6.1	26
25	Tests of Threaded Connections Made by Additive Manufacturing Technologies. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 329-337.	0.6	4
26	Adhesion of Poly(lactide-glycolide) Coating (PLGA) on the Ti6Al7Nb Alloy Substrate. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 578-589.	0.6	4
27	Biodegradable polymer coatings on Ti6Al7Nb alloy. <i>Acta of Bioengineering and Biomechanics</i> , 2019, 21, .	0.4	11
28	Ageing of Zirconia Dedicated to Dental Prostheses for Bruxers Part 2: Influence of Heat Treatment for Surface Morphology, Phase Composition and Mechanical Properties. <i>Reviews on Advanced Materials Science</i> , 2019, 58, 218-225.	3.3	7
29	Biodegradable polymer coatings on Ti6Al7Nb alloy. <i>Acta of Bioengineering and Biomechanics</i> , 2019, 21, 83-92.	0.4	3
30	Effect of thin SiO <sub>2</sub> layers deposited by means of atomic layer deposition method on the mechanical and physical properties of stainless steel. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2018, 49, 562-567.	0.9	2
31	Comparison of biodegradable poly(glycolide-É-caprolactone) and poly(glycolide-É-caprolactone-d,l-lactide) coatings enriched with ciprofloxacin formed on Ti6Al4V alloy. <i>Polymer Degradation and Stability</i> , 2018, 155, 136-144.	5.8	14
32	Analysis of the corrosion protective ability of atomic layer deposition silicaâ€based coatings deposited on 316LVM steel. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2018, 49, 551-561.	0.9	0
33	Novel crosslinkable polyester resinâ€based composites as injectable bioactive scaffolds. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2017, 66, 1-11.	3.4	5
34	Influence of process parameters on plasma electrolytic surface treatment of tantalum for biomedical applications. <i>Applied Surface Science</i> , 2017, 407, 52-63.	6.1	41
35	Lactoferrin and collagen type I as components of composite formed on titanium alloys for bone replacement. <i>Surface and Coatings Technology</i> , 2017, 328, 1-12.	4.8	13
36	Electrochemical Properties of $TiO_2$ Oxide Layer Deposited on Ti6Al7Nb Alloy. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 3-10.	0.6	1

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37	Characteristics of Surface Layers of Ti6Al4V Implants. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 76-84.	0.6	0
38	Influence of ALD process parameters on the physical and chemical properties of the surface of vascular stents. <i>Archives of Civil and Mechanical Engineering</i> , 2017, 17, 32-42.	3.8	20
39	Study of the Electrochemical Properties of 316LVM Steel with TiO <sub>2</sub> Layer Deposited by Means of the ALD Method. <i>Advanced Structured Materials</i> , 2017, , 297-308.	0.5	2
40	Comparison of the physicochemical properties of Al <sub>2</sub> O <sub>3</sub> layers applied to the surfaces of cpTi and the Ti6Al7Nb alloy using the ALD method. <i>Materiali in Tehnologije</i> , 2017, 51, 637-641.	0.5	0
41	Phase composition and morphology characteristics of ceria-stabilized zirconia powders obtained via sol-gel method with various pH conditions. <i>Acta of Bioengineering and Biomechanics</i> , 2017, 19, 21-30.	0.4	5
42	Mechanical properties of atomic layer deposition (ALD) TiO <sub>2</sub> layers on stainless steel substrates. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2016, 47, 512-520.	0.9	13
43	Evaluation of physicochemical properties of SiO <sub>2</sub> -coated stainless steel after sterilization. <i>Materials Science and Engineering C</i> , 2016, 63, 155-163.	7.3	22
44	Potentiostatic, Potentiodynamic and Impedance Study of TiO <sub>2</sub> Layers Deposited of 316 LVM Steel Used for Coronary Stents. <i>Archives of Metallurgy and Materials</i> , 2016, 61, 821-824.	0.6	5
45	Influence of surface modification on physico-chemical properties of Ti6Al7Nb alloy. <i>Surface and Coatings Technology</i> , 2016, 307, 753-760.	4.8	5
46	Evaluation of physicochemical properties of surface modified Ti6Al4V and Ti6Al7Nb alloys used for orthopedic implants. <i>Materials Science and Engineering C</i> , 2016, 68, 851-860.	7.3	34
47	Nano-Scale Structure Investigation of Vapour Deposited AlCrSiN Coating Using Transmission Electron Microscope Techniques. <i>Archives of Metallurgy and Materials</i> , 2016, 61, 837-842.	0.6	2
48	Structure and properties of Al <sub>2</sub> O <sub>3</sub> thin films deposited by ALD process. <i>Vacuum</i> , 2016, 131, 319-326.	3.5	50
49	On the electropolishing and anodic oxidation of Ti-15Mo alloy. <i>Electrochimica Acta</i> , 2016, 205, 256-265.	5.2	32
50	Surface characterisation and corrosion behaviour of niobium treated in a Ca- and P-containing solution under sparking conditions. <i>Electrochimica Acta</i> , 2016, 198, 91-103.	5.2	42
51	Electrochemical Corrosion of Magnesium Alloy for Cardiac Implants in Artificial Plasma Solution. <i>Solid State Phenomena</i> , 2016, 246, 105-108.	0.3	0
52	Porous titania films fabricated via sol gel rout – Optical and AFM characterization. <i>Optical Materials</i> , 2016, 56, 64-70.	3.6	11
53	Investigations of mechanical properties of SiO <sub>2</sub> coatings deposited by sol-gel method on cpTi and Ti-6Al-7Nb alloy. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2016, 230, 799-804.	1.1	2
54	The effect of EO and steam sterilization on the mechanical and electrochemical properties of titanium Grade 4. <i>Materiali in Tehnologije</i> , 2016, 50, 153-158.	0.5	14

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55	Mechanical properties of selected polymeric surgical sutures. Polimery, 2016, 61, 334-338.	0.7	2
56	Physicochemical properties of a Ti67 alloy after EO and steam sterilization. Materiali in Tehnologije, 2016, 50, 323-329.	0.5	0
57	Influence of Surface Modification on Properties of Stainless Steel Used for Implants / Wpływ Modyfikacji Powierzchni Na Właściwości Stali Nierdzewnej Stosowanej Na Implanty. Archives of Metallurgy and Materials, 2015, 60, 2965-2970.	0.6	17
58	Nonstandard Optical Methods as a Tool for Rough Surface Analysis. Materials Today: Proceedings, 2015, 2, 4046-4052.	1.8	2
59	Mechanical Properties of Anodically Oxidized cpTi and Ti-6Al-7Nb Alloy. Advanced Structured Materials, 2015, , 123-132.	0.5	2
60	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
61	Comparative characteristics of endodontic drills. Acta of Bioengineering and Biomechanics, 2015, 17, 75-83.	0.4	3
62	The effects of a SiO <sub>2</sub> coating on the corrosion parameters cpTi and Ti-6Al-7Nb alloy. Biomatter, 2014, 4, e28535.	2.6	10
63	Electrochemical Impedance Spectroscopy and Corrosion Resistance of SiO <sub>2</sub> Coated CpTi and Ti-6Al-7Nb Alloy. Advances in Intelligent Systems and Computing, 2014, , 411-420.	0.6	8
64	Numerical Analysis of Taylor-Type External Fixator by Means of FEM. Advances in Intelligent Systems and Computing, 2014, , 387-394.	0.6	2
65	EIS Study of SiO <sub>2</sub> Oxide Film on 316L Stainless Steel for Cardiac Implants. Advances in Intelligent Systems and Computing, 2014, , 403-410.	0.6	9
66	Biomechanical analysis of limited-contact plate used for osteosynthesis. Acta of Bioengineering and Biomechanics, 2014, 16, 99-105.	0.4	0
67	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
68	Influence of surgical drills wear on thermal process generated in bones. Acta of Bioengineering and Biomechanics, 2013, 15, 19-23.	0.4	22
69	Numerical and experimental analyses of drills used in osteosynthesis. Acta of Bioengineering and Biomechanics, 2011, 13, 29-36.	0.4	14
70	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
71	Biomechanical Analysis of Lumbar Spine Stabilization by Means of Transpedicular Stabilizer. Advances in Soft Computing, 2008, , 529-536.	0.4	12
72	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

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73	Biomechanical Analysis of Selected Endoprostheses of Hip Joint by Means of Finite Element Methods. Solid State Phenomena, 0, 226, 29-32.	0.3	0
74	Corrosion Resistance of Ti6Al7Nb Alloy after Various Surface Modifications. Solid State Phenomena, 0, 227, 483-486.	0.3	3
75	Influence of Ultrasound Bone Union Stimulation on Corrosion Resistance of Titanium Alloys. Solid State Phenomena, 0, 227, 463-466.	0.3	2
76	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