

Alexander Kopp

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

27
papers

434
citations

11
h-index

20
g-index

30
ext. papers

657
ext. citations

6.2
avg, IF

3.94
L-index

#	Paper	IF	Citations
27	Introduction to Plasma Electrolytic Oxidation—An Overview of the Process and Applications. <i>Coatings</i> , 2020 , 10, 628	2.9	67
26	Optimized in vitro procedure for assessing the cytocompatibility of magnesium-based biomaterials. <i>Acta Biomaterialia</i> , 2015 , 23, 354-363	10.8	56
25	Influence of design and postprocessing parameters on the degradation behavior and mechanical properties of additively manufactured magnesium scaffolds. <i>Acta Biomaterialia</i> , 2019 , 98, 23-35	10.8	54
24	EDM Machining Capabilities of Magnesium (Mg) Alloy WE43 for Medical Applications. <i>Procedia Engineering</i> , 2011 , 19, 190-195		50
23	Improved In Vitro Test Procedure for Full Assessment of the Cytocompatibility of Degradable Magnesium Based on ISO 10993-5/-12. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	32
22	Influence of Electro Discharge Machining of Biodegradable Magnesium on the Biocompatibility. <i>Procedia CIRP</i> , 2013 , 5, 88-93	1.8	31
21	Effect of process parameters on additive-free electrospinning of regenerated silk fibroin nonwovens. <i>Bioactive Materials</i> , 2020 , 5, 241-252	16.7	21
20	Microstructure, mechanical properties, corrosion resistance and cytocompatibility of WE43 Mg alloy scaffolds fabricated by laser powder bed fusion for biomedical applications. <i>Materials Science and Engineering C</i> , 2021 , 119, 111623	8.3	20
19	A detailed microstructural and corrosion analysis of magnesium alloy WE43 manufactured by selective laser melting. <i>Additive Manufacturing</i> , 2020 , 35, 101321	6.1	14
18	PEO-generated Surfaces Support Attachment and Growth of Cells In Vitro with No Additional Benefit for Micro-roughness in Sa (0.2-4 μ m). <i>In Vivo</i> , 2016 , 30, 27-33	2.3	14
17	Hemocompatibility of plasma electrolytic oxidation (PEO) coated Mg-RE and Mg-Zn-Ca alloys for vascular scaffold applications. <i>Materials Science and Engineering C</i> , 2018 , 92, 819-826	8.3	12
16	In Vivo Simulation of Magnesium Degradability Using a New Fluid Dynamic Bench Testing Approach. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	9
15	Plasma Electrolytic Oxidation of Titanium Implant Surfaces: Microgroove-Structures Improve Cellular Adhesion and Viability. <i>In Vivo</i> , 2018 , 32, 241-247	2.3	8
14	Influence of surface condition on the degradation behaviour and biocompatibility of additively manufactured WE43. <i>Materials Science and Engineering C</i> , 2021 , 124, 112016	8.3	5
13	Towards a flexible electrochemical biosensor fabricated from biocompatible Bombyx mori silk. <i>Biosensors and Bioelectronics</i> , 2021 , 183, 113204	11.8	5
12	Improved in vivo osseointegration and degradation behavior of PEO surface-modified WE43 magnesium plates and screws after 6 and 12 months. <i>Materials Science and Engineering C</i> , 2021 , 129, 112380	8.3	5
11	Defined surface adjustment for medical magnesium implants by electrical discharge machining (EDM) and plasma electrolytic oxidation (PEO). <i>CIRP Annals - Manufacturing Technology</i> , 2019 , 68, 583-586	4.9	4

10	Multi-scale directed surface topography machined by electro discharge machining in combination with plasma electrolytic conversion for improved osseointegration. <i>International Journal of Mechatronics and Manufacturing Systems</i> , 2013 , 6, 254	0.8	4
9	Automated ex-situ detection of pitting corrosion and its effect on the mechanical integrity of rare earth magnesium alloy - WE43. <i>Bioactive Materials</i> , 2022 , 8, 545-558	16.7	4
8	Surface Characteristics of Esthetic Nickel-Titanium and Beta-Titanium Orthodontic Archwires Produced by Plasma Electrolytic Oxidation (PEO)-Primary Results. <i>Materials</i> , 2019 , 12,	3.5	3
7	Production and Characterization of Porous Fibroin Scaffolds for Regenerative Medical Application. <i>In Vivo</i> , 2019 , 33, 757-762	2.3	3
6	In vitro study on the hemocompatibility of plasma electrolytic oxidation coatings on titanium substrates. <i>Artificial Organs</i> , 2020 , 44, 419-427	2.6	3
5	Strength, corrosion resistance and cellular response of interfaces in bioresorbable poly-lactic acid/Mg fiber composites for orthopedic applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 123, 104781	4.1	3
4	Correlates of non-adherence to breast, cervical, and colorectal cancer screening among screen-eligible women: a population-based cohort study in Ontario, Canada. <i>Cancer Causes and Control</i> , 2021 , 32, 147-155	2.8	2
3	Printability, mechanical and degradation properties of Mg-(x)Zn elemental powder mixes processed by laser powder bed fusion. <i>Additive Manufacturing Letters</i> , 2022 , 2, 100025		0
2	Development and validation of a parametric human mandible model to determine internal stresses for the future design optimization of maxillofacial implants. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022 , 125, 104893	4.1	0
1	Silk Fibroin as Adjuvant in the Fabrication of Mechanically Stable Fibrin Biocomposites. <i>Polymers</i> , 2022 , 14, 2251	4.5	