Arne Biesiekierski

List of Publications by Year
in descending order

22	982	758635 12	996533 15
papers	citations	h-index	g-index

23	23	23	979
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Titanium alloys. , 2021, , 157-187.		3
2	Development of beta-type Ti-Nb-Zr-Mo alloys for orthopedic applications. Applied Materials Today, 2021, 22, 100968.	2.3	15
3	Surface Characterization and Biocompatibility of Hydroxyapatite Coating on Anodized TiO₂ Nanotubes via PVD Magnetron Sputtering. Langmuir, 2021, 37, 4984-4996.	1.6	18
4	A review of the physiological impact of rare earth elements and their uses in biomedical Mg alloys. Acta Biomaterialia, 2021, 130, 80-97.	4.1	65
5	The Application of the Rare Earths to Magnesium and Titanium Metallurgy in Australia. Advanced Materials, 2020, 32, e1901715.	11.1	24
6	Impact of the rare earth elements scandium and yttrium on beta-type Ti-24Nb-38Zr-2Mo-base alloys for orthopedic applications. Materialia, 2020, 9, 100586.	1.3	11
7	Selective laser melting in biomedical manufacturing. , 2020, , 235-269.		19
8	Introduction to biomedical manufacturing. , 2020, , 3-29.		2
9	Material selection for medical devices. , 2020, , 31-94.		8
10	Impact of rare earth elements on nanohardness and nanowear properties of beta-type Ti-24Nb-38Zr-2Mo alloy for medical applications. Materialia, 2020, 12, 100772.	1.3	8
11	Titanium Alloys, Including Nitinol. , 2020, , 229-247.		4
12	Effect of Anodized TiO₂â€“Nb₂O₅â€“ZrO₂ Nanotubes with Different Nanoscale Dimensions on the Biocompatibility of a Ti35Zr28Nb Alloy. ACS Applied Materials & Interfaces, 2020, 12, 6776-6787.	4.0	19
13	Characterization techniques for metallic biomaterials. , 2020, , 517-545.		0
14	Optimized Fabrication and Characterization of TiO₂â€“Nb₂O₅â€“ZrO₂ Nanotubes on Î²-Phase TiZr₃₅Nb₂₈ Alloy for Biomedical Applications via the Taguchi Method. ACS Biomaterials Science and Engineering, 2019, 5, 2750-2761.	2.6	12
15	Effects of selected metallic and interstitial elements on the microstructure and mechanical properties of beta titanium alloys for orthopedic applications. Materialia, 2019, 6, 100323.	1.3	46
16	An investigation of the mechanical and microstructural evolution of a TiNbZr alloy with varied ageing time. Scientific Reports, 2018, 8, 5737.	1.6	32
17	Impact of ruthenium on mechanical properties, biological response and thermal processing of Î²-type Tiâ€“Nbâ€“Ru alloys. Acta Biomaterialia, 2017, 48, 461-467.	4.1	17
18	Extraordinary high strength Ti-Zr-Ta alloys through nanoscaled, dual-cubic spinodal reinforcement. Acta Biomaterialia, 2017, 53, 549-558.	4.1	50

#	Article	IF	Citations
19	Investigations into Tiâ€“(Nb,Ta)â€“Fe alloys for biomedical applications. Acta Biomaterialia, 2016, 32, 336-347.	4.1	61
20	Impact of ruthenium on microstructure and corrosion behavior of Î²-type Tiâ€“Nbâ€“Ru alloys for biomedical applications. Materials & Design, 2014, 59, 303-309.	5.1	45
21	A new look at biomedical Ti-based shape memory alloys. Acta Biomaterialia, 2012, 8, 1661-1669.	4.1	519
22	A Brief Review of Biomedical Shape Memory Alloys by Powder Metallurgy. Key Engineering Materials, 0, 520, 195-200.	0.4	4