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	A new look at biomedical Ti-based shape memory alloys. Acta Biomaterialia, 2012, 8, 1661-1669.	4.1	519
2	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
3	Investigations into Tiâ€“(Nb,Ta)â€“Fe alloys for biomedical applications. Acta Biomaterialia, 2016, 32, 336-347.	4.1	61
4	Extraordinary high strength Ti-Zr-Ta alloys through nanoscaled, dual-cubic spinodal reinforcement. Acta Biomaterialia, 2017, 53, 549-558.	4.1	50
5	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
6	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
7	An investigation of the mechanical and microstructural evolution of a TiNbZr alloy with varied ageing time. Scientific Reports, 2018, 8, 5737.	1.6	32
8	The Application of the Rare Earths to Magnesium and Titanium Metallurgy in Australia. Advanced Materials, 2020, 32, e1901715.	11.1	24
9	Selective laser melting in biomedical manufacturing. , 2020, , 235-269.		19
10	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
11	Surface Characterization and Biocompatibility of Hydroxyapatite Coating on Anodized TiO₂ Nanotubes via PVD Magnetron Sputtering. Langmuir, 2021, 37, 4984-4996.	1.6	18
12	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
13	Development of beta-type Ti-Nb-Zr-Mo alloys for orthopedic applications. Applied Materials Today, 2021, 22, 100968.	2.3	15
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	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
16	Material selection for medical devices. , 2020, , 31-94.		8
17	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
18	A Brief Review of Biomedical Shape Memory Alloys by Powder Metallurgy. Key Engineering Materials, 0, 520, 195-200.	0.4	4

#	Article	IF	Citations
19	Titanium Alloys, Including Nitinol. , 2020, , 229-247.		4
20	Titanium alloys. , 2021, , 157-187.		3
21	Introduction to biomedical manufacturing. , 2020, , 3-29.		2
22	Characterization techniques for metallic biomaterials. , 2020, , 517-545.		0