

Mariana Calin

List of Publications by Year in descending order

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304368

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times ranked

1991
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective laser melting of in situ titanium-titanium boride composites: Processing, microstructure and mechanical properties. <i>Acta Materialia</i> , 2014, 76, 13-22.	3.8	483
2	Effect of Powder Particle Shape on the Properties of In Situ Ti-TiB Composite Materials Produced by Selective Laser Melting. <i>Journal of Materials Science and Technology</i> , 2015, 31, 1001-1005.	5.6	201
3	Designing biocompatible Ti-based metallic glasses for implant applications. <i>Materials Science and Engineering C</i> , 2013, 33, 875-883.	3.8	178
4	Thermal stability and phase transformations of martensitic Ti-Nb alloys. <i>Science and Technology of Advanced Materials</i> , 2013, 14, 055004.	2.8	107
5	Nanostructured β -phase Ti-31.0Fe-9.0Sn and sub- $\frac{1}{4}\mu\text{m}$ structured Ti-39.3Nb-13.3Zr-10.7Ta alloys for biomedical applications: Microstructure benefits on the mechanical and corrosion performances. <i>Materials Science and Engineering C</i> , 2012, 32, 2418-2425.	3.8	90
6	Giant thermal expansion and β -precipitation pathways in Ti-alloys. <i>Nature Communications</i> , 2017, 8, 1429.	5.8	81
7	Production of Porous β -Type Ti-40Nb Alloy for Biomedical Applications: Comparison of Selective Laser Melting and Hot Pressing. <i>Materials</i> , 2013, 6, 5700-5712.	1.3	77
8	Elastic softening of β -type Ti-Nb alloys by indium (In) additions. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 39, 162-174.	1.5	73
9	Phase transformations and mechanical properties of biocompatible Ti-16.1Nb processed by severe plastic deformation. <i>Journal of Alloys and Compounds</i> , 2015, 628, 434-441.	2.8	67
10	Composition-dependent magnitude of atomic shuffles in Ti-Nb martensites. <i>Journal of Applied Crystallography</i> , 2014, 47, 1374-1379.	1.9	65
11	Surface treatment, corrosion behavior, and apatite-forming ability of Ti-45Nb implant alloy. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013, 101B, 269-278.	1.6	64
12	Factors influencing the elastic moduli, reversible strains and hysteresis loops in martensitic Ti-Nb alloys. <i>Materials Science and Engineering C</i> , 2015, 48, 511-520.	3.8	63
13	Thermal stability and latent heat of Nb-rich martensitic Ti-Nb alloys. <i>Journal of Alloys and Compounds</i> , 2017, 697, 300-309.	2.8	60
14	Nanocrystallization of Al-Ni-Y and Al-Ni-Nd Metallic Glasses. <i>Materials Science Forum</i> , 1998, 269-272, 749-754.	0.3	56
15	Effect of indium (In) on corrosion and passivity of a beta-type Ti-Nb alloy in Ringer's solution. <i>Applied Surface Science</i> , 2015, 335, 213-222.	3.1	44
16	Electrochemical deposition of hydroxyapatite on beta-Ti-40Nb. <i>Surface and Coatings Technology</i> , 2016, 294, 186-193.	2.2	38
17	Tailoring the Bain strain of martensitic transformations in Ti Nb alloys by controlling the Nb content. <i>International Journal of Plasticity</i> , 2016, 85, 190-202.	4.1	31
18	New Mg-Ca-Zn amorphous alloys: Biocompatibility, wettability and mechanical properties. <i>Materialia</i> , 2020, 12, 100799.	1.3	26

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19	Nanocrystalline body-centred cubic beta-titanium alloy processed by high-pressure torsion. <i>International Journal of Materials Research</i> , 2009, 100, 1662-1667.	0.1	25
20	Micro-patterning by thermoplastic forming of Ni-free Ti-based bulk metallic glasses. <i>Materials and Design</i> , 2017, 120, 204-211.	3.3	25
21	Hierarchical surface patterning of Ni- and Be-free Ti- and Zr-based bulk metallic glasses by thermoplastic net-shaping. <i>Materials Science and Engineering C</i> , 2017, 73, 398-405.	3.8	25
22	Tailoring biocompatible Ti-Zr-Nb-Hf-Si metallic glasses based on high-entropy alloys design approach. <i>Materials Science and Engineering C</i> , 2021, 121, 111733.	3.8	25
23	Mechanical Alloying of β -type Ti-Nb for Biomedical Applications. <i>Advanced Engineering Materials</i> , 2013, 15, 262-268.	1.6	24
24	Designing new biocompatible glass-forming Ti ₇₅ Zr ₁₀ Nb _x Si ₁₅ (x=0, 15) alloys: corrosion, passivity, and apatite formation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016, 104, 27-38.	1.6	23
25	Metal release and cell biological compatibility of beta-type Ti-40Nb containing indium. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018, 106, 1686-1697.	1.6	23
26	Insights into the surface and biocompatibility aspects of laser shock peened Ti-22Nb alloy for orthopedic implant applications. <i>Applied Surface Science</i> , 2022, 586, 152816.	3.1	23
27	Mechanical and Corrosion Behavior of New Generation Ti-45Nb Porous Alloys Implant Devices. <i>Technologies</i> , 2016, 4, 33.	3.0	22
28	Tuning the glass forming ability and mechanical properties of Ti-based bulk metallic glasses by Ga additions. <i>Journal of Alloys and Compounds</i> , 2019, 793, 552-563.	2.8	20
29	Superhydrophilic nanostructured surfaces of beta Ti 29Nb alloy for cardiovascular stent applications. <i>Surface and Coatings Technology</i> , 2020, 396, 125965.	2.2	18
30	Thermomechanical processing of In-containing β -type Ti-Nb alloys. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 79, 283-291.	1.5	17
31	Micropatterning kinetics of different glass-forming systems investigated by thermoplastic net-shaping. <i>Scripta Materialia</i> , 2017, 137, 127-131.	2.6	16
32	Routes to control diffusive pathways and thermal expansion in Ti-alloys. <i>Scientific Reports</i> , 2020, 10, 3045.	1.6	16
33	Effects of new beta-type Ti-40Nb implant materials, brain-derived neurotrophic factor, acetylcholine and nicotine on human mesenchymal stem cells of osteoporotic and non osteoporotic donors. <i>PLoS ONE</i> , 2018, 13, e0193468.	1.1	15
34	XPS and AES sputter-depth profiling at surfaces of biocompatible passivated Ti-based alloys: concentration quantification considering chemical effects. <i>Surface and Interface Analysis</i> , 2014, 46, 683-688.	0.8	11
35	Deformation-induced nanoscale high-temperature phase separation in Co-Fe alloys at room temperature. <i>Applied Physics Letters</i> , 2007, 90, 201908.	1.5	10
36	Effects of thermomechanical history and environment on the fatigue behavior of (β)-Ti-Nb implant alloys. <i>MATEC Web of Conferences</i> , 2018, 165, 06001.	0.1	10

#	ARTICLE	IF	CITATIONS
37	Synthesis of new glassy Mg-Ca-Zn alloys with exceptionally low Young's Modulus: Exploring near eutectic compositions. Scripta Materialia, 2019, 173, 139-143.	2.6	7
38	Fatigue properties of a new generation ÅŸ-type Ti-Nb alloy for osteosynthesis with an industrial standard surface condition. International Journal of Fatigue, 2017, 103, 147-156.	2.8	6
39	Thermal oxidation behavior of glass-forming Tiâ€Zrâ€(Nb)â€Si alloys. Journal of Materials Research, 2016, 31, 1264-1274.	1.2	5
40	Thermal Stability and Crystallization Kinetics of Ti₄₀Zr₁₀Cu₃₄Pd₁₄Sn₂ Bulk Metallic Glass. Solid State Phenomena, 0, 188, 3-10.		
41	The Influence of Partial Replacement of Cu with Ga on the Corrosion Behavior of Ti₄₀Zr₁₀Cu₃₆Pd₁₄Metallic Glasses. Journal of the Electrochemical Society, 2019, 166, C485-C491.	1.3	4
42	New Cu-Free Ti-Based Composites with Residual Amorphous Matrix. Materials, 2016, 9, 331.	1.3	2
43	Effect of Cu and Gd on Structural and Magnetic Properties of Fe-Co-B-Si-Nb Metallic Glasses. Solid State Phenomena, 2016, 254, 60-64.	0.3	2