

Mariana Calin

List of Publications by Citations

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43
papers

1,556
citations

18
h-index

39
g-index

44
ext. papers

1,873
ext. citations

4.9
avg, IF

4.45
L-index

#	Paper	IF	Citations
43	Selective laser melting of in situ titanium-titanium boride composites: Processing, microstructure and mechanical properties. <i>Acta Materialia</i> , 2014 , 76, 13-22	8.4	375
42	Effect of Powder Particle Shape on the Properties of In Situ Ti ₆₀ B Composite Materials Produced by Selective Laser Melting. <i>Journal of Materials Science and Technology</i> , 2015 , 31, 1001-1005	9.1	156
41	Designing biocompatible Ti-based metallic glasses for implant applications. <i>Materials Science and Engineering C</i> , 2013 , 33, 875-83	8.3	142
40	Thermal stability and phase transformations of martensitic Ti-Nb alloys. <i>Science and Technology of Advanced Materials</i> , 2013 , 14, 055004	7.1	81
39	Nanostructured β -phase Ti ₈₁ Fe ₉ Sn and sub- β structured Ti _{89.3} Nb _{10.3} Zr _{0.7} Ta alloys for biomedical applications: Microstructure benefits on the mechanical and corrosion performances. <i>Materials Science and Engineering C</i> , 2012 , 32, 2418-2425	8.3	66
38	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	3.5	63
37	Elastic softening of β -type Ti-Nb alloys by indium (In) additions. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014 , 39, 162-74	4.1	54
36	Nanocrystallization of Al-Ni-Y and Al-Ni-Nd Metallic Glasses. <i>Materials Science Forum</i> , 1998 , 269-272, 749-754	0.4	54
35	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 , 101, 269-78	3.5	52
34	Giant thermal expansion and β -precipitation pathways in Ti-alloys. <i>Nature Communications</i> , 2017 , 8, 1429	17.4	50
33	Phase transformations and mechanical properties of biocompatible Ti ₈₀ 6.1Nb processed by severe plastic deformation. <i>Journal of Alloys and Compounds</i> , 2015 , 628, 434-441	5.7	46
32	Composition-dependent magnitude of atomic shuffles in Ti ₈₀ Nb martensites. <i>Journal of Applied Crystallography</i> , 2014 , 47, 1374-1379	3.8	42
31	Factors influencing the elastic moduli, reversible strains and hysteresis loops in martensitic Ti-Nb alloys. <i>Materials Science and Engineering C</i> , 2015 , 48, 511-20	8.3	41
30	Thermal stability and latent heat of Nb-rich martensitic Ti-Nb alloys. <i>Journal of Alloys and Compounds</i> , 2017 , 697, 300-309	5.7	35
29	Effect of indium (In) on corrosion and passivity of a beta-type Ti ₈₀ Nb alloy in Ringer's solution. <i>Applied Surface Science</i> , 2015 , 335, 213-222	6.7	26
28	Electrochemical deposition of hydroxyapatite on beta-Ti-40Nb. <i>Surface and Coatings Technology</i> , 2016 , 294, 186-193	4.4	26
27	Tailoring the Bain strain of martensitic transformations in TiNb alloys by controlling the Nb content. <i>International Journal of Plasticity</i> , 2016 , 85, 190-202	7.6	22

26	Designing new biocompatible glass-forming Ti75-x Zr10 Nb _x Si15 (x = 0, 15) alloys: corrosion, passivity, and apatite formation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016 , 104, 27-38	3.5	18
25	Micro-patterning by thermoplastic forming of Ni-free Ti-based bulk metallic glasses. <i>Materials and Design</i> , 2017 , 120, 204-211	8.1	17
24	Mechanical Alloying of β -Type Ti-Nb for Biomedical Applications. <i>Advanced Engineering Materials</i> , 2013 , 15, 262-268	3.5	17
23	Nanocrystalline body-centred cubic beta-titanium alloy processed by high-pressure torsion. <i>International Journal of Materials Research</i> , 2009 , 100, 1662-1667	0.5	16
22	Mechanical and Corrosion Behavior of New Generation Ti-45Nb Porous Alloys Implant Devices. <i>Technologies</i> , 2016 , 4, 33	2.4	16
21	New Mg-Ca-Zn amorphous alloys: Biocompatibility, wettability and mechanical properties. <i>Materialia</i> , 2020 , 12, 100799	3.2	15
20	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	8.3	14
19	Micropatterning kinetics of different glass-forming systems investigated by thermoplastic net-shaping. <i>Scripta Materialia</i> , 2017 , 137, 127-131	5.6	10
18	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	5.7	10
17	Thermomechanical processing of In-containing β -type Ti-Nb alloys. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 79, 283-291	4.1	10
16	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	3.5	10
15	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	1.5	10
14	Deformation-induced nanoscale high-temperature phase separation in CoBe alloys at room temperature. <i>Applied Physics Letters</i> , 2007 , 90, 201908	3.4	10
13	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	3.7	10
12	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	8.3	8
11	Superhydrophilic nanostructured surfaces of beta Ti 29Nb alloy for cardiovascular stent applications. <i>Surface and Coatings Technology</i> , 2020 , 396, 125965	4.4	7
10	Fatigue properties of a new generation β -type Ti-Nb alloy for osteosynthesis with an industrial standard surface condition. <i>International Journal of Fatigue</i> , 2017 , 103, 147-156	5	5
9	Routes to control diffusive pathways and thermal expansion in Ti-alloys. <i>Scientific Reports</i> , 2020 , 10, 30459	4.9	5

8	Synthesis of new glassy Mg-Ca-Zn alloys with exceptionally low Young's Modulus: Exploring near eutectic compositions. <i>Scripta Materialia</i> , 2019 , 173, 139-143	5.6	5
7	High-strength Cu-Ti-rich bulk metallic glasses and nano-composites. <i>International Journal of Materials Research</i> , 2003 , 94, 615-620		4
6	Effects of thermomechanical history and environment on the fatigue behavior of Ti-Nb implant alloys. <i>MATEC Web of Conferences</i> , 2018 , 165, 06001	0.3	3
5	Thermal oxidation behavior of glass-forming Ti-Zr-(Nb)-Si alloys. <i>Journal of Materials Research</i> , 2016 , 31, 1264-1274	2.5	2
4	Thermal Stability and Crystallization Kinetics of Ti ₄₀ Zr ₁₀ Cu ₃₄ Pd ₁₄ Sn ₂ Bulk Metallic Glass. <i>Solid State Phenomena</i> , 2012 , 188, 3-10	0.4	1
3	Insights into the surface and biocompatibility aspects of laser shock peened Ti-22Nb alloy for orthopedic implant applications. <i>Applied Surface Science</i> , 2022 , 152816	6.7	1
2	Effect of Cu and Gd on Structural and Magnetic Properties of Fe-Co-B-Si-Nb Metallic Glasses. <i>Solid State Phenomena</i> , 2016 , 254, 60-64	0.4	1
1	The Influence of Partial Replacement of Cu with Ga on the Corrosion Behavior of Ti ₄₀ Zr ₁₀ Cu ₃₆ Pd ₁₄ Metallic Glasses. <i>Journal of the Electrochemical Society</i> , 2019 , 166, C485-C491	3.9	0