

Petre-Flaviu Gostin

List of Publications by Year in descending order

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30
papers

999
citations

516215

16
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476904

29
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all docs

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docs citations

30
times ranked

1053
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Designing biocompatible Ti-based metallic glasses for implant applications. <i>Materials Science and Engineering C</i> , 2013, 33, 875-883. | 3.8 | 178 |
| 2 | Tribological and corrosion properties of Al ₁₂ Si produced by selective laser melting. <i>Journal of Materials Research</i> , 2014, 29, 2044-2054. | 1.2 | 138 |
| 3 | Comparison of the corrosion of bulk amorphous steel with conventional steel. <i>Corrosion Science</i> , 2010, 52, 273-281. | 3.0 | 80 |
| 4 | Effect of surface finishing of a Zr-based bulk metallic glass on its corrosion behaviour. <i>Corrosion Science</i> , 2010, 52, 1711-1720. | 3.0 | 70 |
| 5 | Surface treatment, corrosion behavior, and apatite-forming ability of Ti ₄₅ Nb implant alloy. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013, 101B, 269-278. | 1.6 | 64 |
| 6 | Acid corrosion process of Fe-based bulk metallic glass. <i>Corrosion Science</i> , 2012, 62, 112-121. | 3.0 | 45 |
| 7 | Effect of indium (In) on corrosion and passivity of a beta-type Ti ₄₅ Nb alloy in Ringer's solution. <i>Applied Surface Science</i> , 2015, 335, 213-222. | 3.1 | 44 |
| 8 | Interactions between mechanically generated defects and corrosion phenomena of Zr-based bulk metallic glasses. <i>Acta Materialia</i> , 2012, 60, 2300-2309. | 3.8 | 42 |
| 9 | Chemical nanoroughening of Ti ₄₀ Nb surfaces and its effect on human mesenchymal stromal cell response. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2014, 102, 31-41. | 1.6 | 40 |
| 10 | Characterization of corrosion phenomena of Zr ₆₆ Ti ₆₆ Cu ₆₆ Al ₆₆ Ni metallic glass by SEM and TEM. <i>Materials Characterization</i> , 2010, 61, 1000-1008. | 1.9 | 38 |
| 11 | Electrochemical deposition of hydroxyapatite on beta-Ti-40Nb. <i>Surface and Coatings Technology</i> , 2016, 294, 186-193. | 2.2 | 38 |
| 12 | Nano-porous surface states of Ti ₄₅ Y ₄₅ Al ₄₅ Co phase separated metallic glass. <i>Intermetallics</i> , 2009, 17, 1120-1123. | 1.8 | 33 |
| 13 | Oxidation treatments of beta-type Ti-40Nb for biomedical use. <i>Surface and Coatings Technology</i> , 2016, 302, 88-99. | 2.2 | 30 |
| 14 | 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 |
| 15 | Comparing the pitting corrosion behavior of prominent Zr-based bulk metallic glasses. <i>Journal of Materials Research</i> , 2015, 30, 233-241. | 1.2 | 19 |
| 16 | The impact of surface morphology on the magnetovolume transition in magnetocaloric LaFe _{11.8} Si _{1.2} . <i>APL Materials</i> , 2016, 4, 106101. | 2.2 | 16 |
| 17 | Comparing the corrosion behaviour of Zr ₆₆ Ti ₆₆ Nb ₁₃ Cu ₈ Ni _{6.8} Al _{6.2} bulk nanostructure-dendrite composites. <i>Intermetallics</i> , 2008, 16, 1179-1184. | 1.8 | 12 |
| 18 | Polarization Studies of Zr-Based Bulk Metallic Glasses for Electrochemical Machining. <i>Journal of the Electrochemical Society</i> , 2014, 161, E66-E73. | 1.3 | 12 |

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|----|---|-----|-----------|
| 19 | Stress corrosion cracking of a Zr-based bulk metallic glass. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 639, 681-690. | 2.6 | 12 |
| 20 | 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 |
| 21 | Corrosion behavior of the bulk glassy (Fe _{44.3} Cr ₅ Co ₅ Mo _{12.8} Mn _{11.2} C _{15.8} N _{5.99}) alloy. <i>Journal of Materials Research</i> , 2009, 24, 1471-1479. | 1.8 | 10 |
| 22 | In Situ Electrochemical Analysis during Deformation of a Zr-Based Bulk Metallic Glass: A Sensitive Tool Revealing Early Shear Banding. <i>Advanced Engineering Materials</i> , 2015, 17, 1532-1535. | 1.6 | 8 |
| 23 | In-Situ Synchrotron X-ray Characterization of Corrosion Products in Zr Artificial Pits in Simulated Physiological Solutions. <i>Journal of the Electrochemical Society</i> , 2017, 164, C1003-C1012. | 1.3 | 8 |
| 24 | Stress-Corrosion Interactions in Zr-Based Bulk Metallic Glasses. <i>Metals</i> , 2015, 5, 1262-1278. | 1.0 | 7 |
| 25 | Corrosion of a Zr-based Bulk Metallic Glass with Different Surface Finishing States. <i>ECS Transactions</i> , 2009, 16, 1-7. | 0.3 | 5 |
| 26 | Corrosion Fatigue Studies on a Bulk Glassy Zr-Based Alloy under Three-Point Bending. <i>Frontiers in Materials</i> , 2017, 3, . | 1.2 | 5 |
| 27 | In Situ Synchrotron X-ray Diffraction Characterization of Corrosion Products of a Ti-Based Metallic Glass for Implant Applications. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800338. | 3.9 | 4 |
| 28 | 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. | 1.3 | 4 |
| 29 | X-ray Diffraction Computed Nanotomography Applied to Solve the Structure of Hierarchically Phase-Separated Metallic Glass. <i>ACS Nano</i> , 2021, 15, 2386-2398. | 7.3 | 4 |
| 30 | Microstructure and mechanical properties of a newly developed high strength Mg _{54.7} Cu _{11.5} Ag _{3.3} Gd _{5.5} Sc ₂₅ alloy. <i>Intermetallics</i> , 2014, 45, 84-88. | 1.8 | 0 |