

Ballarre Josefina

List of Publications by Year in descending order

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34
papers

806
citations

430442

18
h-index

500791

28
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36
all docs

36
docs citations

36
times ranked

975
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving the osteointegration and bone-implant interface by incorporation of bioactive particles in sol-gel coatings of stainless steel implants. <i>Acta Biomaterialia</i> , 2010, 6, 1601-1609.	4.1	96
2	Versatile bioactive and antibacterial coating system based on silica, gentamicin, and chitosan: Improving early stage performance of titanium implants. <i>Surface and Coatings Technology</i> , 2020, 381, 125138.	2.2	70
3	Mechanical characterization of nano-reinforced silica based sol-gel hybrid coatings on AISI 316L stainless steel using nanoindentation techniques. <i>Surface and Coatings Technology</i> , 2009, 203, 3325-3331.	2.2	67
4	Multilayer silica-methacrylate hybrid coatings prepared by sol-gel on stainless steel 316L: Electrochemical evaluation. <i>Surface and Coatings Technology</i> , 2008, 202, 2194-2201.	2.2	59
5	Protective hybrid sol-gel coatings containing bioactive particles on surgical grade stainless steel: Surface characterization. <i>Applied Surface Science</i> , 2007, 253, 7260-7264.	3.1	41
6	Sol-gel hybrid coatings with strontium-doped 45S5 glass particles for enhancing the performance of stainless steel implants: Electrochemical, bioactive and in vivo response. <i>Journal of Non-Crystalline Solids</i> , 2015, 425, 1-10.	1.5	38
7	A comparative study of zirconium and titanium implants in rat: osseointegration and bone material quality. <i>Journal of Materials Science: Materials in Medicine</i> , 2014, 25, 411-422.	1.7	37
8	Morphologic and nanomechanical characterization of bone tissue growth around bioactive sol-gel coatings containing wollastonite particles applied on stainless steel implants. <i>Materials Science and Engineering C</i> , 2011, 31, 545-552.	3.8	35
9	Surface modification of zirconium by anodisation as material for permanent implants: in vitro and in vivo study. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 161-169.	1.7	31
10	58S and 68S sol-gel glass-like bioactive coatings for enhancing the implant performance of AZ91D magnesium alloy. <i>Surface and Coatings Technology</i> , 2020, 400, 126224.	2.2	30
11	Sol-gel coatings incorporating borosilicate bioactive glass enhance anti corrosive and surface performance of stainless steel implants. <i>Journal of Electroanalytical Chemistry</i> , 2020, 876, 114735.	1.9	28
12	In vivo and in vitro evaluation of vitreous coatings on cobalt base alloys for prosthetic devices. <i>Journal of Non-Crystalline Solids</i> , 2002, 304, 278-285.	1.5	27
13	Nano-indentation of hybrid silica coatings on surgical grade stainless steel. <i>Thin Solid Films</i> , 2008, 516, 1082-1087.	0.8	27
14	Electrochemical evaluation of multilayer silica-metacrylate hybrid sol-gel coatings containing bioactive particles on surgical grade stainless steel. <i>Surface and Coatings Technology</i> , 2008, 203, 80-86.	2.2	26
15	In vitro and in vivo characterization of anodised zirconium as a potential material for biomedical applications. <i>Materials Science and Engineering C</i> , 2017, 75, 957-968.	3.8	26
16	Morphological and mechanical characterization of chitosan/gelatin/silica-gentamicin/bioactive glass coatings on orthopaedic metallic implant materials. <i>Thin Solid Films</i> , 2021, 732, 138780.	0.8	26
17	Protection and functionalization of AISI 316 L stainless steel for orthopedic implants: hybrid coating and sol gel glasses by spray to promote bioactivity. <i>Electrochimica Acta</i> , 2016, 203, 309-315.	2.6	25
18	Frictional and adhesive behavior of organic-inorganic hybrid coatings on surgical grade stainless steel using nano-scratching technique. <i>Wear</i> , 2009, 266, 1165-1170.	1.5	19

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19	Bone quality around bioactive silica-based coated stainless steel implants: Analysis by Micro-Raman, XRF and XAS techniques. <i>Journal of Structural Biology</i> , 2013, 184, 164-172.	1.3	19
20	Enhancing low cost stainless steel implants: bioactive silica-based sol-gel coatings with wollastonite particles. <i>International Journal of Nano and Biomaterials</i> , 2012, 4, 33.	0.1	14
21	Chemical and mechanical properties of anodized cp-titanium in NH ₄ H ₂ PO ₄ /NH ₄ F media for biomedical applications. <i>Surface and Coatings Technology</i> , 2012, 206, 4791-4798.	2.2	14
22	Calculation of cancellous bone elastic properties with the polarization-based FFT iterative scheme. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2017, 33, e2879.	1.0	11
23	Dual-surface modification of titanium alloy with anodizing treatment and bioceramic particles for enhancing prosthetic devices. <i>Journal of Materials Science</i> , 2017, 52, 9151-9165.	1.7	10
24	Surface modification of titanium by anodic oxidation in phosphoric acid at low potentials. Part 2. In vitro and in vivo study. <i>Surface and Interface Analysis</i> , 2013, 45, 1395-1401.	0.8	8
25	Degradable magnesium implants: improving bioactive and antibacterial performance by designed hybrid coatings. <i>Journal of Materials Research</i> , 2021, 36, 443-458.	1.2	8
26	Sol-gel coatings for protection and biofunctionalization of stainless-steel prosthetic intracorporeal devices in Latin-America. <i>Journal of Sol-Gel Science and Technology</i> , 2022, 102, 96-104.	1.1	8
27	Additive manufacturing of bioresorbable poly(ester-urethane)/glass-ceramic composite scaffolds. <i>Polymer Composites</i> , 2022, 43, 5611-5622.	2.3	2
28	SiO ₂ -CaO-P ₂ O ₅ (58S) sol gel glass applied onto surgical grade stainless steel by spray technique: morphological characterization by digital image processing. <i>Biomedical Glasses</i> , 2016, 2, .	2.4	1
29	Bioactive Silica-Based Coating on Stainless Steel Implants. , 2018, , 3505-3553.		1
30	Characterization and quantification of oxides generated by anodization on titanium for implantation purposes. <i>Journal of Physics: Conference Series</i> , 2011, 332, 012027.	0.3	0
31	Processing of microCT implant-bone systems images using Fuzzy Mathematical Morphology. <i>Journal of Physics: Conference Series</i> , 2016, 705, 012055.	0.3	0
32	New technique for determining age of coastal skates from Argentinian sea by digital image processing analysis: A preliminary study. <i>IFMBE Proceedings</i> , 2017, , 225-228.	0.2	0
33	Measurement of the Degradation Rate of Anodized AZ91 Magnesium Temporary Implants Using Digital Image Processing Techniques. <i>IFMBE Proceedings</i> , 2020, , 290-297.	0.2	0
34	Analysis and Quantification of Bone Tissue Around Anodized Zirconium Implants. <i>IFMBE Proceedings</i> , 2020, , 656-662.	0.2	0