

Hicham Benhayoune

List of Publications by Year in descending order

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38
papers

760
citations

516215

16
h-index

525886

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38
all docs

38
docs citations

38
times ranked

799
citing authors

#	ARTICLE	IF	CITATIONS
1	A new sol-gel synthesis of 45S5 bioactive glass using an organic acid as catalyst. <i>Materials Science and Engineering C</i> , 2015, 47, 407-412.	3.8	81
2	Electrophoretic deposition (EPD) of nano-hydroxyapatite coatings with improved mechanical properties on prosthetic Ti6Al4V substrates. <i>Surface and Coatings Technology</i> , 2016, 301, 94-99.	2.2	76
3	In vitro precipitation of electrodeposited calcium-deficient hydroxyapatite coatings on Ti6Al4V substrate. <i>Materials Characterization</i> , 2008, 59, 129-133.	1.9	68
4	Effects of pulsed current and H ₂ O ₂ amount on the composition of electrodeposited calcium phosphate coatings. <i>Materials Characterization</i> , 2010, 61, 786-795.	1.9	53
5	In vitro dissolution and corrosion study of calcium phosphate coatings elaborated by pulsed electrodeposition current on Ti6Al4V substrate. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 753-761.	1.7	42
6	Pulsed electrodeposition for the synthesis of strontium-substituted calcium phosphate coatings with improved dissolution properties. <i>Materials Science and Engineering C</i> , 2013, 33, 4260-4265.	3.8	33
7	Behavior of human osteoblast-like cells in contact with electrodeposited calcium phosphate coatings. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2006, 79B, 108-115.	1.6	29
8	Elaboration of Monophasic and Biphasic Calcium Phosphate Coatings on Ti6Al4V Substrate by Pulsed Electrodeposition Current. <i>Advanced Engineering Materials</i> , 2010, 12, B192.	1.6	29
9	In vitro corrosion behavior of electrodeposited calcium phosphate coatings on Ti6Al4V substrates. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 3069-3077.	1.2	29
10	Thermal Treatment Optimization of Electrodeposited Hydroxyapatite Coatings on Ti6Al4V Substrate. <i>Advanced Engineering Materials</i> , 2012, 14, 377-382.	1.6	27
11	Morphological modifications of electrodeposited calcium phosphate coatings under amino acids effect. <i>Applied Surface Science</i> , 2013, 268, 343-348.	3.1	27
12	In vitro effects of zirconia and alumina particles on human blood monocyte-derived macrophages: X-ray microanalysis and flow cytometric studies. <i>Journal of Biomedical Materials Research Part B</i> , 2000, 52, 587-594.	3.0	24
13	Effect of annealing temperature on the structural and mechanical properties of coatings prepared by electrophoretic deposition of TiO ₂ nanoparticles. <i>Thin Solid Films</i> , 2017, 638, 201-212.	0.8	22
14	Electrodeposition of Calcium Phosphate Coatings on Metallic Substrates for Bone Implant Applications: A Review. <i>Coatings</i> , 2022, 12, 539.	1.2	22
15	Electrodeposition of cobalt-substituted calcium phosphate coatings on Ti ₂₂ Nb ₆ Zr alloy for bone implant applications. <i>Journal of Alloys and Compounds</i> , 2019, 793, 576-582.	2.8	20
16	Chitosan effects on glass matrices evaluated by biomaterial. MAS-NMR and biological investigations. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 1775-1783.	1.2	16
17	Influence of the surface mechanical attrition treatment (SMAT) on the corrosion behavior of Co ₂₈ Cr ₆ Mo alloy in Ringer's solution. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 1091-1098.	1.2	16
18	Human osteoblast-like cells response to pulsed electrodeposited calcium phosphate coatings. <i>RSC Advances</i> , 2013, 3, 11148.	1.7	15

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19	A New Process for the Thermal Treatment of Calcium Phosphate Coatings Electrodeposited on Ti6Al4V Substrate. <i>Advanced Engineering Materials</i> , 2015, 17, 1608-1615.	1.6	14
20	Effects of bioactive glass particles and their ionic products on intracellular concentrations. <i>Journal of Biomedical Materials Research Part B</i> , 2003, 65A, 441-446.	3.0	12
21	Electrophoretic Deposition of 45S5 Bioglass® Coatings on the Ti6Al4V Prosthetic Alloy with Improved Mechanical Properties. <i>Coatings</i> , 2020, 10, 1192.	1.2	12
22	Electrodeposition of biphasic calcium phosphate coatings with improved dissolution properties. <i>Materials Chemistry and Physics</i> , 2019, 236, 121797.	2.0	11
23	Electrophoretic Deposition of Bioactive Glass Coatings on Ti12Mo5Ta Alloy. <i>Key Engineering Materials</i> , 2012, 507, 135-140.	0.4	10
24	Microstructural characterization of Ti6Al4V alloy subjected to the duplex SMAT/plasma nitriding. <i>Microscopy Research and Technique</i> , 2013, 76, 897-903.	1.2	9
25	Characterization of HA/FHA Coatings on Smooth and Rough Implant Surface by Pulsed Electrodeposition. <i>International Journal of Applied Ceramic Technology</i> , 2015, 12, E222.	1.1	9
26	Nanomechanical Behavior, Adhesion and Corrosion Resistance of Hydroxyapatite Coatings for Orthopedic Implant Applications. <i>Coatings</i> , 2021, 11, 477.	1.2	9
27	Structural and morphological study of electrodeposited calcium phosphate materials submitted to thermal treatment. <i>Materials Letters</i> , 2017, 209, 27-31.	1.3	8
28	Kinetics of Short-Term Physicochemical Reactions at the Periphery of Bioactive Glass Particles. A Transmission Electron Microscopy Cryo-X-ray Microanalysis of Diffusible Ions. <i>Langmuir</i> , 2003, 19, 3840-3847.	1.6	7
29	Structural Characterization of Electrodeposited Strontium Substituted Calcium Phosphate Coatings. <i>Journal of Biomaterials and Tissue Engineering</i> , 2011, 1, 68-75.	0.0	6
30	Effect of surface mechanical attrition treatment on the microstructure of cobalt-chromium-molybdenum biomedical alloy. <i>Microscopy Research and Technique</i> , 2021, 84, 238-245.	1.2	6
31	A Simple Method to Assess Surface Roughness by Photothermal Investigation (PTR) Using an Effective Semitransparent Layer. <i>International Journal of Thermophysics</i> , 2012, 33, 1960-1965.	1.0	4
32	Nanoscale Surface Modification of a Prosthetic Material: Case of Ti6Al4V into Ringer's Solution. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 4956-4961.	0.9	3
33	Benefit of a Surface Nanocrystallization Treatment on Co28Cr6Mo Abrasive Wear Properties. <i>Advanced Materials Research</i> , 2014, 966-967, 435-441.	0.3	3
34	Electrophoretic Deposition of Hydroxyapatite and 58S Bioactive Glass Coatings on the Ti6Al4V Alloy Subjected to Surface Mechanical Attrition Treatment. <i>Key Engineering Materials</i> , 2015, 654, 149-153.	0.4	3
35	Advanced Biomaterials and Coatings. <i>Coatings</i> , 2022, 12, 965.	1.2	3
36	Cryo-X-ray analysis: A novel tool to better understand the physicochemical reactions at the bioglass/biological fluid interface. <i>Microscopy Research and Technique</i> , 2008, 71, 684-688.	1.2	2

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37	Sol-gel synthesis of 45S5 bioglass " Prosthetic coating by electrophoretic deposition. MATEC Web of Conferences, 2013, 7, 04018.	0.1	0
38	Structural Analysis of Prosthetic Coatings Elaborated by Electrochemical Deposition. Key Engineering Materials, 2017, 758, 105-110.	0.4	0