

# Richard DREVET

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5948939/publications.pdf>

Version: 2024-02-01

36  
papers

661  
citations

566801

15  
h-index

580395

25  
g-index

36  
all docs

36  
docs citations

36  
times ranked

761  
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	Effects of pulsed current and H2O2 amount on the composition of electrodeposited calcium phosphate coatings. <i>Materials Characterization</i> , 2010, 61, 786-795.	1.9	53
4	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
5	Martensitic Transformations and Mechanical and Corrosion Properties of Fe-Mn-Si Alloys for Biodegradable Medical Implants. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 1006-1013.	1.1	39
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	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
8	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
9	Thermal Treatment Optimization of Electrodeposited Hydroxyapatite Coatings on Ti6Al4V Substrate. <i>Advanced Engineering Materials</i> , 2012, 14, 377-382.	1.6	27
10	Morphological modifications of electrodeposited calcium phosphate coatings under amino acids effect. <i>Applied Surface Science</i> , 2013, 268, 343-348.	3.1	27
11	Electrodeposition of Calcium Phosphate Coatings on Metallic Substrates for Bone Implant Applications: A Review. <i>Coatings</i> , 2022, 12, 539.	1.2	22
12	Harnessing Wharton's jelly stem cell differentiation into bone-like nodule on calcium phosphate substrate without osteoinductive factors. <i>Acta Biomaterialia</i> , 2017, 49, 575-589.	4.1	21
13	Electrodeposition of cobalt-substituted calcium phosphate coatings on Ti22Nb6Zr alloy for bone implant applications. <i>Journal of Alloys and Compounds</i> , 2019, 793, 576-582.	2.8	20
14	Influence of the surface mechanical attrition treatment (SMAT) on the corrosion behavior of Co28Cr6Mo alloy in Ringer's solution. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 1091-1098.	1.2	16
15	Human osteoblast-like cells response to pulsed electrodeposited calcium phosphate coatings. <i>RSC Advances</i> , 2013, 3, 11148.	1.7	15
16	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
17	Tunable Corrosion Behavior of Calcium Phosphate Coated Fe-Mn-Si Alloys for Bone Implant Applications. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 6553-6560.	1.1	11
18	Electrodeposition of biphasic calcium phosphate coatings with improved dissolution properties. <i>Materials Chemistry and Physics</i> , 2019, 236, 121797.	2.0	11

#	ARTICLE	IF	CITATIONS
19	Oxidation Behavior of the Skutterudite Material Ce <sub>0.75</sub> Fe <sub>3</sub> CoSb <sub>12</sub> . Oxidation of Metals, 2019, 91, 767-779.	1.0	11
20	Electrophoretic Deposition of Bioactive Glass Coatings on Ti <sub>12</sub> Mo <sub>5</sub> Ta Alloy. Key Engineering Materials, 2012, 507, 135-140.	0.4	10
21	Metal organic precursor effect on the properties of SnO <sub>2</sub> thin films deposited by MOCVD technique for electrochemical applications. Surface and Coatings Technology, 2015, 271, 234-241.	2.2	9
22	XPS-nanocharacterization of organic layers electrochemically grafted on the surface of SnO <sub>2</sub> thin films to produce a new hybrid material coating. Applied Surface Science, 2016, 384, 442-448.	3.1	8
23	Structural and morphological study of electrodeposited calcium phosphate materials submitted to thermal treatment. Materials Letters, 2017, 209, 27-31.	1.3	8
24	Nanocrystallized SnO <sub>2</sub> thin films deposited on Si and LaAlO <sub>3</sub> substrates by pulsed-MOCVD technique for electrochemical applications. Surface and Coatings Technology, 2013, 230, 180-185.	2.2	7
25	Structural Characterization of Electrodeposited Strontium Substituted Calcium Phosphate Coatings. Journal of Biomaterials and Tissue Engineering, 2011, 1, 68-75.	0.0	6
26	Effect of surface mechanical attrition treatment on the microstructure of cobalt-chromium-molybdenum biomedical alloy. Microscopy Research and Technique, 2021, 84, 238-245.	1.2	6
27	Pack cementation to prevent the oxidation of CoSb <sub>3</sub> in air at 800ÅK. Surface and Coatings Technology, 2020, 385, 125401.	2.2	5
28	A Simple Method to Assess Surface Roughness by Photothermal Investigation (PTR) Using an Effective Semitransparent Layer. International Journal of Thermophysics, 2012, 33, 1960-1965.	1.0	4
29	Aluminizing by pack cementation to protect CoSb <sub>3</sub> from oxidation. Materials Chemistry and Physics, 2020, 241, 122417.	2.0	4
30	Nanoscale Surface Modification of a Prosthetic Material: Case of Ti6Al4V into Ringer's Solution. Journal of Nanoscience and Nanotechnology, 2012, 12, 4956-4961.	0.9	3
31	Electrophoretic Deposition of Hydroxyapatite and 58S Bioactive Glass Coatings on the Ti6Al4V Alloy Subjected to Surface Mechanical Attrition Treatment. Key Engineering Materials, 2015, 654, 149-153.	0.4	3
32	Electrochemical behavior of CoSb <sub>3</sub> in sulfuric and oxalic acids over the potential range 0 to 40ÅV. Journal of Solid State Electrochemistry, 2018, 22, 2821-2828.	1.2	3
33	Oxidation Behavior of Microstructured and Nanostructured Co <sub>0.94</sub> Ni <sub>0.06</sub> Sb <sub>3</sub> Thermoelectric Materials. Oxidation of Metals, 2020, 93, 559-572.	1.0	3
34	Advanced Biomaterials and Coatings. Coatings, 2022, 12, 965.	1.2	3
35	Oxidation Behavior of the Skutterudite Material Yb <sub>0.2</sub> Co <sub>4</sub> Sb <sub>12</sub> . Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 3996-4002.	1.1	2
36	Sol-gel synthesis of 45S5 bioglass - Prosthetic coating by electrophoretic deposition. MATEC Web of Conferences, 2013, 7, 04018.	0.1	0