

Pierre Ponthiaux

List of Publications by Year in descending order

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26
papers

1,031
citations

623734

14
h-index

713466

21
g-index

27
all docs

27
docs citations

27
times ranked

1181
citing authors

#	ARTICLE	IF	CITATIONS
1	Corrosion behaviour of titanium in the presence of Streptococcus mutans. Journal of Dentistry, 2013, 41, 528-534.	4.1	135
2	How do titanium and Ti6Al4V corrode in fluoridated medium as found in the oral cavity? An in vitro study. Materials Science and Engineering C, 2015, 47, 384-393.	7.3	119
3	Wear and Corrosion Interactions on Titanium in Oral Environment: Literature Review. Journal of Bio- and Tribo-Corrosion, 2015, 1, 1.	2.6	109
4	Composite Electrodeposition to Obtain Nanostructured Coatings. Journal of the Electrochemical Society, 2001, 148, C461.	2.9	104
5	Preparation and investigation of nanostructured SiCâ€“nickel layers by electrodeposition. Solid State Ionics, 2002, 151, 89-95.	2.7	98
6	Understanding growth mechanisms and tribocorrosion behaviour of porous TiO2 anodic films containing calcium, phosphorous and magnesium. Applied Surface Science, 2015, 341, 1-12.	6.1	86
7	Effect of titania anodic formation and hydroxyapatite electrodeposition on electrochemical behaviour of Tiâ€“6Alâ€“4V alloy under fretting conditions for biomedical applications. Corrosion Science, 2015, 91, 262-271.	6.6	75
8	Fretting and wear behaviors of Ni/nano-WC composite coatings in dry and wet conditions. Materials & Design, 2015, 65, 550-558.	5.1	75
9	Impedance methodology: A new way to characterize the setting reaction of dental cements. Dental Materials, 2010, 26, 1127-1132.	3.5	47
10	Transition from intergranular to pitting corrosion in fine grained aluminum processed by equal channel angular pressing. Corrosion Science, 2014, 87, 259-264.	6.6	40
11	Co-ZrO2 electrodeposited composite coatings exhibiting improved micro hardness and corrosion behavior in simulating body fluid solution. Surface and Coatings Technology, 2011, 205, 5379-5386.	4.8	37
12	The effect of nanocrystallized surface on the tribocorrosion behavior of 304L stainless steel. Wear, 2018, 394-395, 71-79.	3.1	26
13	Corrosion properties of anodized aluminum: Effects of equal channel angular pressing prior to anodization. Corrosion Science, 2014, 89, 163-170.	6.6	18
14	On the tribocorrosion behavior of 304L stainless steel in olive pomace/tap water filtrate. Wear, 2015, 328-329, 509-517.	3.1	16
15	Tribo-electrochemical impedance: A new technique for mechanistic study in tribocorrosion. Electrochimica Acta, 2014, 124, 3-8.	5.2	15
16	Initial Sliding Wear Kinetics of Two Types of Glass Ionomer Cement: A Tribological Study. BioMed Research International, 2014, 2014, 1-6.	1.9	8
17	On the Tribocorrosion Responses of Two Stainless Steels. Tribology Transactions, 2018, 61, 53-60.	2.0	7
18	New advances in triboelectrochemistry: from steady state to impedance of abraded stainless steel in acidic medium. Journal of Solid State Electrochemistry, 2015, 19, 2591-2599.	2.5	4

#	ARTICLE	IF	CITATIONS
19	Comparison between tribocorrosion mechanisms of Stellite 6 and Zircaloy 4 in LiOH-H3BO3 solutions. , 2006, , 495-500.		3
20	The effect of anodic oxidation treatment of Ti-10Zr alloy on tribocorrosion behavior in a simulated physiological solution. , 2015, , .		3
21	Nanotribology on individual phases of duplex steel: combining roughness, material effects, and friction. International Journal of Surface Science and Engineering, 2011, 5, 331.	0.4	2
22	Wear Measurements Using Electrochemical Methods. , 2005, , 501.		1
23	Effects of Sliding Wear at Various Loading Conditions on the Local Mechanical-Electrochemical Behaviour of Duplex Stainless Steels. ECS Transactions, 2006, 3, 355-361.	0.5	1
24	Tribocorrosion performance of Co/UHMWPE composite biocoatings compared to pure co coatings in a simulated physiological solution. , 2015, , .		1
25	Improving tribocorrosion behaviour by electro-codeposition of TiC nano-dispersed particles with nickel as hybrid layers for energy applications. IOP Conference Series: Materials Science and Engineering, 2017, 174, 012045.	0.6	1
26	Tribocorrosion of stellite 6 alloy: Mechanism of electrochemical reactions. , 2007, , 195-211.		0