

# JosÃ© Antonio PuÃ©rtolas

## List of Publications by Year in descending order

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23  
papers

847  
citations

567144

15  
h-index

642610

23  
g-index

23  
all docs

23  
docs citations

23  
times ranked

1177  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of carbon nanotubes and graphene as reinforcements for UHMWPE-based composites in arthroplastic applications: A review. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 39, 129-145.	1.5	128
2	Effects of gamma-irradiation on UHMWPE/MWNT nanocomposites. <i>Composites Science and Technology</i> , 2011, 71, 282-288.	3.8	117
3	The effect of gamma-irradiation on few-layered graphene materials. <i>Applied Surface Science</i> , 2014, 301, 264-272.	3.1	104
4	Multi-walled carbon nanotubes acting as free radical scavengers in gamma-irradiated ultrahigh molecular weight polyethylene composites. <i>Carbon</i> , 2012, 50, 2442-2452.	5.4	98
5	Bacterial adherence to separated modular components in joint prosthesis: A clinical study. <i>Journal of Orthopaedic Research</i> , 2012, 30, 1634-1639.	1.2	55
6	Compression behaviour of biphasic calcium phosphate and biphasic calcium phosphate-agarose scaffolds for bone regeneration. <i>Acta Biomaterialia</i> , 2011, 7, 841-847.	4.1	41
7	Improved wear performance of ultra high molecular weight polyethylene coated with hydrogenated diamond like carbon. <i>Wear</i> , 2010, 269, 458-465.	1.5	34
8	Fractography evolution in accelerated aging of UHMWPE after gamma irradiation in air. <i>Biomaterials</i> , 2004, 25, 9-21.	5.7	33
9	Effect of surface roughness and sterilization on bacterial adherence to ultra-high molecular weight polyethylene. <i>Clinical Microbiology and Infection</i> , 2010, 16, 1036-1041.	2.8	32
10	Bacterial adherence on UHMWPE with vitamin E: an in vitro study. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 1701-1706.	1.7	30
11	On the assessment of oxidative stability of post-irradiation stabilized highly crosslinked UHMWPEs by thermogravimetry. <i>Polymer Testing</i> , 2010, 29, 425-432.	2.3	26
12	Hollow porous implants filled with mesoporous silica particles as a two-stage antibiotic-eluting device. <i>International Journal of Pharmaceutics</i> , 2011, 409, 1-8.	2.6	22
13	Thermal and dynamic mechanical properties of vitamin E infused and blended ultra-high molecular weight polyethylenes. <i>Journal of Applied Polymer Science</i> , 2011, 120, 2282-2291.	1.3	22
14	Microstructure, thermooxidation and mechanical behavior of a novel highly linear, vitamin E stabilized, UHMWPE. <i>Materials Science and Engineering C</i> , 2013, 33, 182-188.	3.8	22
15	Does Cyclic Stress Play a Role in Highly Crosslinked Polyethylene Oxidation?. <i>Clinical Orthopaedics and Related Research</i> , 2015, 473, 1022-1029.	0.7	17
16	DLC coatings for UHMWPE: Relationship between bacterial adherence and surface properties. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 2813-2820.	2.1	15
17	Impact resistance and fractography in ultra high molecular weight polyethylenes. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 30, 111-122.	1.5	13
18	Probabilistic assessment of fatigue initiation data on highly crosslinked ultrahigh molecular weight polyethylenes. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012, 15, 190-198.	1.5	8

#	ARTICLE	IF	CITATIONS
19	Characterization of highly crosslinked polyethylenes by colorimetry. <i>Polymer Testing</i> , 2012, 31, 841-847.	2.3	8
20	Mechanochemical characterisation of silica-based coatings on Nitinol substrates. <i>Microporous and Mesoporous Materials</i> , 2007, 98, 292-302.	2.2	7
21	Mechanical behavior, microstructure and thermooxidation properties of sequentially crosslinked ultrahigh molecular weight polyethylenes. <i>Journal of Applied Polymer Science</i> , 2013, 129, 2518-2526.	1.3	7
22	Mullins effect behaviour under compression in micelle-templated silica and micelle-templated silica/agarose systems. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 229-238.	1.7	6
23	Dielectric behavior induced by vitamin E and electron beam irradiation in ultra high molecular weight polyethylene. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	2