

# Jos M Manero

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92  
papers

2,235  
citations

27  
h-index

42  
g-index

96  
ext. papers

2,561  
ext. citations

4.6  
avg, IF

4.74  
L-index

#	Paper	IF	Citations
92	Citric Acid in the Passivation of Titanium Dental Implants: Corrosion Resistance and Bactericide Behavior.. <i>Materials</i> , <b>2022</b> , 15,	3.5	1
91	Relevant Aspects of Piranha Passivation in Ti6Al4V Alloy Dental Meshes. <i>Coatings</i> , <b>2022</b> , 12, 154	2.9	1
90	Mineralization of Titanium Surfaces: Biomimetic Implants. <i>Materials</i> , <b>2021</b> , 14,	3.5	7
89	Membrane perturbation, altered morphology and killing of Staphylococcus epidermidis upon contact with a cytocompatible peptide-based antibacterial surface. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2021</b> , 203, 111745	6	2
88	Citric Acid Passivation of Titanium Dental Implants for Minimizing Bacterial Colonization Impact. <i>Coatings</i> , <b>2021</b> , 11, 214	2.9	5
87	In-Situ Laser Directed Energy Deposition of Biomedical Ti-Nb and Ti-Zr-Nb Alloys from Elemental Powders. <i>Metals</i> , <b>2021</b> , 11, 1205	2.3	5
86	Early Short-Term Postoperative Mechanical Failures of Current Ceramic-on-Ceramic Bearing Total Hip Arthroplasties. <i>Materials</i> , <b>2020</b> , 13,	3.5	1
85	Titanium Scaffolds by Direct Ink Writing: Fabrication and Functionalization to Guide Osteoblast Behavior. <i>Metals</i> , <b>2020</b> , 10, 1156	2.3	3
84	Covalent grafting of titanium with a cathelicidin peptide produces an osteoblast compatible surface with antistaphylococcal activity. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2020</b> , 185, 110586	6	11
83	PHAs as matrices for drug delivery <b>2019</b> , 183-213		1
82	A Dual Molecular Biointerface Combining RGD and KRSR Sequences Improves Osteoblastic Functions by Synergizing Integrin and Cell-Membrane Proteoglycan Binding. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	16
81	Influence of the Elastic Modulus on the Osseointegration of Dental Implants. <i>Materials</i> , <b>2019</b> , 12,	3.5	27
80	Control of stem cell response and bone growth on biomaterials by fully non-peptidic integrin selective ligands. <i>Biomaterials Science</i> , <b>2019</b> , 7, 1281-1285	7.4	8
79	Antimicrobial PHAs coatings for solid and porous tantalum implants. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 182, 110317	6	14
78	Fracture and Fatigue of Titanium Narrow Dental Implants: New Trends in Order to Improve the Mechanical Response. <i>Materials</i> , <b>2019</b> , 12,	3.5	12
77	All-in-one trifunctional strategy: A cell adhesive, bacteriostatic and bactericidal coating for titanium implants. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2018</b> , 169, 30-40	6	33
76	Recombinant fibronectin fragment III8-10/poly(lactic acid) hybrid nanofibers enhance the bioactivity of titanium surface. <i>Nanomedicine</i> , <b>2018</b> , 13, 899-912	5.6	4

75	Mechanism of fracture of NiTi superelastic endodontic rotary instruments. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2018</b> , 29, 131	4.5	3
74	In vitro evaluation of a multispecies oral biofilm over antibacterial coated titanium surfaces. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2018</b> , 29, 164	4.5	20
73	Comparative Study of Surface Chemical Composition and Oxide Layer Modification upon Oxygen Plasma Cleaning and Piranha Etching on a Novel Low Elastic Modulus Ti25Nb21Hf Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2017</b> , 48, 3770-3776	2.3	6
72	Regenerating Bone via Multifunctional Coatings: The Blending of Cell Integration and Bacterial Inhibition Properties on the Surface of Biomaterials. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 21618-21630	9.5	53
71	Cell adhesive peptides functionalized on CoCr alloy stimulate endothelialization and prevent thrombogenesis and restenosis. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2017</b> , 105, 973-983	5.4	10
70	Mechanical Characterisation and Biomechanical and Biological Behaviours of Ti-Zr Binary-Alloy Dental Implants. <i>BioMed Research International</i> , <b>2017</b> , 2017, 2785863	3	14
69	Towards the cell-instructive bactericidal substrate: exploring the combination of nanotopographical features and integrin selective synthetic ligands. <i>Scientific Reports</i> , <b>2017</b> , 7, 16363	4.9	25
68	Functionalization of CoCr surfaces with cell adhesive peptides to promote HUVECs adhesion and proliferation. <i>Applied Surface Science</i> , <b>2017</b> , 393, 82-92	6.7	25
67	Surface guidance of stem cell behavior: Chemically tailored co-presentation of integrin-binding peptides stimulates osteogenic differentiation in vitro and bone formation in vivo. <i>Acta Biomaterialia</i> , <b>2016</b> , 43, 269-281	10.8	40
66	Evaluation of bone loss in antibacterial coated dental implants: An experimental study in dogs. <i>Materials Science and Engineering C</i> , <b>2016</b> , 69, 538-45	8.3	32
65	Modification of titanium surfaces by adding antibiotic-loaded PHB spheres and PEG for biomedical applications. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2016</b> , 27, 124	4.5	16
64	Tuning Mesenchymal Stem Cell Response onto Titanium-Niobium-Hafnium Alloy by Recombinant Fibronectin Fragments. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 2517-25	9.5	26
63	Anhydride-functional silane immobilized onto titanium surfaces induces osteoblast cell differentiation and reduces bacterial adhesion and biofilm formation. <i>Materials Science and Engineering C</i> , <b>2016</b> , 59, 524-532	8.3	34
62	Mechanical and physicochemical characterization along with biological interactions of a new Ti25Nb21Hf alloy for bone tissue engineering. <i>Journal of Biomaterials Applications</i> , <b>2015</b> , 30, 171-81	2.9	7
61	Antibacterial coatings on titanium surfaces: a comparison study between in vitro single-species and multispecies biofilm. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 5992-6001	9.5	44
60	Bioactive compounds immobilized on Ti and TiNbHf: AFM-based investigations of biofunctionalization efficiency and cell adhesion. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2015</b> , 136, 704-11 <sup>6</sup>		11
59	Study on the use of 3-aminopropyltriethoxysilane and 3-chloropropyltriethoxysilane to surface biochemical modification of a novel low elastic modulus Ti-Nb-Hf alloy. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2015</b> , 103, 495-502	3.5	18
58	Silver deposition on titanium surface by electrochemical anodizing process reduces bacterial adhesion of <i>Streptococcus sanguinis</i> and <i>Lactobacillus salivarius</i> . <i>Clinical Oral Implants Research</i> , <b>2015</b> , 26, 1170-9	4.8	23

57	Installing multifunctionality on titanium with RGD-decorated polyurethane-polyurea roxithromycin loaded nanoparticles: toward new osseointegrative therapies. <i>Advanced Healthcare Materials</i> , <b>2015</b> , 4, 1956-60	10.1	20
56	Mimicking bone extracellular matrix: integrin-binding peptidomimetics enhance osteoblast-like cells adhesion, proliferation, and differentiation on titanium. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2015</b> , 128, 191-200	6	66
55	Antibacterial properties of hLf1-11 peptide onto titanium surfaces: a comparison study between silanization and surface initiated polymerization. <i>Biomacromolecules</i> , <b>2015</b> , 16, 483-96	6.9	90
54	Biofunctionalization of REDV elastin-like recombinamers improves endothelialization on CoCr alloy surfaces for cardiovascular applications. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2015</b> , 127, 22-32	6	39
53	Assessment and comparison of surface chemical composition and oxide layer modification upon two different activation methods on a cocrmo alloy. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2014</b> , 25, 311-20	4.5	10
52	NiTi superelastic orthodontic archwires with polyamide coating. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2014</b> , 25, 555-60	4.5	14
51	Novel peptide-based platform for the dual presentation of biologically active peptide motifs on biomaterials. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 6525-36	9.5	56
50	Low modulus Ti-Nb-Hf alloy for biomedical applications. <i>Materials Science and Engineering C</i> , <b>2014</b> , 42, 691-5	8.3	27
49	Mechanical properties of a new thermoplastic polymer orthodontic archwire. <i>Materials Science and Engineering C</i> , <b>2014</b> , 42, 1-6	8.3	6
48	Covalent immobilization of hLf1-11 peptide on a titanium surface reduces bacterial adhesion and biofilm formation. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 3522-34	10.8	104
47	Friction coefficients and wear rates of different orthodontic archwires in artificial saliva. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2013</b> , 24, 1327-32	4.5	21
46	Lamination and spherulite-like compaction of a hormone's native amyloid-like nanofibrils: spectroscopic insights into key interactions. <i>Faraday Discussions</i> , <b>2013</b> , 166, 163-80	3.6	11
45	NiTi superelastic orthodontic wires with variable stress obtained by ageing treatments. <i>Materials Letters</i> , <b>2013</b> , 104, 5-7	3.3	14
44	New Ni-free superelastic alloy for orthodontic applications. <i>Materials Science and Engineering C</i> , <b>2013</b> , 33, 3325-8	8.3	9
43	A low elastic modulus Ti-Nb-Hf alloy bioactivated with an elastin-like protein-based polymer enhances osteoblast cell adhesion and spreading. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2013</b> , 101, 819-26	5.4	15
42	In vitro response of preosteoblastic MG63 cells on Ni-free Ti shape memory substrates. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2013</b> , 101, 709-20	3.5	10
41	Variation of the superelastic properties and nickel release from original and reused NiTi orthodontic archwires. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2012</b> , 6, 113-9	4.1	16
40	Analysis of tantalum implants used for avascular necrosis of the femoral head: a review of five retrieved specimens. <i>Journal of Applied Biomaterials and Functional Materials</i> , <b>2012</b> , 10, 29-36	1.8	13

39	Characterization of Two Ti-Nb-Hf-Zr Alloys Under Different Cold Rolling Conditions. <i>Journal of Materials Engineering and Performance</i> , <b>2011</b> , 20, 653-657	1.6	10
38	Investigation of the hydroxyapatite obtained as hydrolysis product of tricalcium phosphate by transmission electron microscopy. <i>CrystEngComm</i> , <b>2010</b> , 12, 3318	3.3	24
37	Influence of Cold Work in the Elastic Modulus of the Ti-16.2Hf-24.8Nb-1Zr Alloy Characterized by Instrumented Nanoindentation. <i>Key Engineering Materials</i> , <b>2009</b> , 423, 113-118	0.4	3
36	Design and Characterization of New Ti-Nb-Hf Alloys. <i>Journal of Materials Engineering and Performance</i> , <b>2009</b> , 18, 490-495	1.6	21
35	Optimization of the Ti-16.2Hf-24.8Nb-1Zr Alloy by Cold Working. <i>Journal of Materials Engineering and Performance</i> , <b>2009</b> , 18, 506-510	1.6	15
34	Thermoelastic phase transformation in TiNi alloys under cyclic instrumented indentation. <i>Intermetallics</i> , <b>2009</b> , 17, 784-791	3.5	24
33	Study of hardness and wear behaviour of NiTi shape memory alloys. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 460, 213-219	5.7	51
32	Quantum parameters for guiding the design of Ti alloys with shape memory and/or low elastic modulus. <i>Philosophical Magazine</i> , <b>2008</b> , 88, 2529-2548	1.6	17
31	Study of New Multifunctional Shape Memory and Low Elastic Modulus Ni-Free Ti Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2008</b> , 39, 742-751	2.3	22
30	Acceleration of apatite nucleation on microrough bioactive titanium for bone-replacing implants. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2007</b> , 82, 521-9	5.4	48
29	Low elastic modulus metals for joint prosthesis: Tantalum and nickel-titanium foams. <i>Journal of the European Ceramic Society</i> , <b>2007</b> , 27, 3391-3398	6	28
28	The concept of brain death did not evolve to benefit organ transplants. <i>Journal of Medical Ethics</i> , <b>2007</b> , 33, 197-200	2.5	41
27	The Declaration of Sydney on human death. <i>Journal of Medical Ethics</i> , <b>2007</b> , 33, 699-703	2.5	19
26	QEEG prognostic value in acute stroke. <i>Clinical EEG and Neuroscience</i> , <b>2007</b> , 38, 155-60	2.3	43
25	Application of the technique of environmental scanning electron microscopy to the paper industry. <i>Scanning</i> , <b>2006</b> , 21, 36-39	1.6	
24	Improved surgical mesh integration into the rat abdominal wall with arginine administration. <i>Biomaterials</i> , <b>2006</b> , 27, 758-68	15.6	14
23	Change of Young's modulus of cold-deformed pure iron in a tensile test. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2005</b> , 36, 3317-3324	2.3	85
22	Wear behaviour of the pair Ti-6Al-4V-UHMWPE of acrylic bone cements containing different radiopaque agents. <i>Journal of Biomaterials Applications</i> , <b>2004</b> , 18, 305-19	2.9	5

21	Propagation of fatigue cracks in acrylic bone cements containing different radiopaque agents. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , <b>2004</b> , 218, 167-72	1.7	7
20	Stress relaxation tests in polypropylene monofilament meshes used in the repair of abdominal walls. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2003</b> , 14, 811-5	4.5	5
19	A radiopaque polymeric matrix for acrylic bone cements <b>2003</b> , 64, 44-55		18
18	Applications of environmental scanning electron microscopy (ESEM) in biomaterials field. <i>Microscopy Research and Technique</i> , <b>2003</b> , 61, 469-80	2.8	42
17	The effect of cooling rate on the cyclic deformation of annealed Ti6Al4V. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2003</b> , 349, 150-155	5.3	37
16	Wollastonite Coatings on Zirconia Ceramics. <i>Key Engineering Materials</i> , <b>2003</b> , 254-256, 379-382	0.4	1
15	Experimental evaluation of a new layered prosthesis exhibiting a low tensile modulus of elasticity: long-term integration response within the rat abdominal wall. <i>World Journal of Surgery</i> , <b>2002</b> , 26, 409-15	3.3	29
14	Growth of bioactive surfaces on titanium and its alloys for orthopaedic and dental implants. <i>Materials Science and Engineering C</i> , <b>2002</b> , 22, 53-60	8.3	66
13	Acrylic-phosphate glasses composites as self-curing controlled delivery systems of antibiotics. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2002</b> , 13, 1251-7	4.5	11
12	Growth of bioactive surfaces on dental implants. <i>Implant Dentistry</i> , <b>2002</b> , 11, 170-5	2.4	10
11	Low cycle fatigue behavior of Ti6Al4V thermochemically nitrided for its use in hip prostheses. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2001</b> , 12, 935-7	4.5	9
10	Early imaging of integration response to polypropylene mesh in abdominal wall by environmental scanning electron microscopy: comparison of two placement techniques and correlation with tensiometric studies. <i>World Journal of Surgery</i> , <b>2001</b> , 25, 840-7	3.3	19
9	Formation of Widmanstätten structure: effects of grain size and cooling rate on the Widmanstätten morphologies and on the mechanical properties in Ti6Al4V alloy. <i>Journal of Alloys and Compounds</i> , <b>2001</b> , 329, 142-152	5.7	189
8	Deformation mechanisms of Ti6Al4V alloy with a martensitic microstructure subjected to oligocyclic fatigue. <i>Acta Materialia</i> , <b>2000</b> , 48, 3353-3359	8.4	47
7	Analysis of the structural changes of a phosphate glass during its dissolution in simulated body fluid. <i>Journal of Materials Science: Materials in Medicine</i> , <b>1999</b> , 10, 729-32	4.5	50
6	Effect of the addition of palladium on grain growth kinetics of pure titanium. <i>Journal of Alloys and Compounds</i> , <b>1997</b> , 260, 147-152	5.7	20
5	Effect of saline solution environment on the cyclic deformation of Ti-6Al-4V alloy. <i>Journal of Materials Science: Materials in Medicine</i> , <b>1996</b> , 7, 131-134	4.5	3
4	Relevant aspects in the clinical applications of NiTi shape memory alloys. <i>Journal of Materials Science: Materials in Medicine</i> , <b>1996</b> , 7, 403-406	4.5	49

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| 3 | Effect of grain size on the martensitic transformation in NiTi alloy. <i>Journal of Materials Science</i> , <b>1995</b> , 30, 2526-2530 | 4-3 | 48 |
| 2 | Grain growth in austenite NiTi shape memory alloys. <i>Scripta Metallurgica Et Materialia</i> , <b>1994</b> , 31, 483-486               |     | 2  |
| 1 | Analysis of Tantalum Implants used for Avascular Necrosis of the Femoral Head: A Review of Five Retrieved Specimens                     |     | 1  |