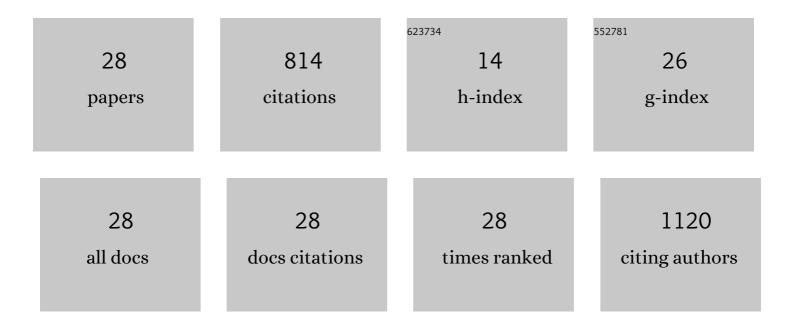
Mauro Mazzocchi

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Synthesis of carbonated hydroxyapatites: efficiency of the substitution and critical evaluation of analytical methods. Journal of Molecular Structure, 2005, 744-747, 221-228.	3.6	122
2	On the possibility of silicon nitride as a ceramic for structural orthopaedic implants. Part I: processing, microstructure, mechanical properties, cytotoxicity. Journal of Materials Science: Materials in Medicine, 2008, 19, 2881-2887.	3.6	104
3	On the possibility of silicon nitride as a ceramic for structural orthopaedic implants. Part II: chemical stability and wear resistance in body environment. Journal of Materials Science: Materials in Medicine, 2008, 19, 2889-2901.	3.6	83
4	Production and characterization of lightweight vermiculite/geopolymer-based panels. Materials and Design, 2015, 85, 266-274.	7.0	74
5	Protein adsorption onto two bioactive glass-ceramics. Biomaterials, 2003, 24, 147-155.	11.4	67
6	Osteointegration of bioactive glass-coated zirconia in healthy bone: an in vivo evaluation. Biomaterials, 2002, 23, 3833-3841.	11.4	54
7	Chemical treatment on alumina–zirconia composites inducing apatite formation with maintained mechanical properties. Journal of the European Ceramic Society, 2012, 32, 2113-2120.	5.7	47
8	Improvement in zirconia osseointegration by means of a biological glass coating: Anin vitro andin vivo investigation. Journal of Biomedical Materials Research Part B, 2002, 61, 282-289.	3.1	34
9	Osteointegration of bioactive glass-coated and uncoated zirconia in osteopenic bone: Anin vivo experimental study. Journal of Biomedical Materials Research Part B, 2004, 68A, 264-272.	3.1	33
10	ZrB2-Based Sponges and Lightweight Devices. International Journal of Applied Ceramic Technology, 2011, 8, 815-823.	2.1	30
11	Surface coatings of bioactive glasses on high strength ceramic composites. Applied Surface Science, 2009, 255, 6679-6685.	6.1	22
12	Comparison between the in vitro surface transformations of AP40 and RKKP bioactive glasses. Journal of Materials Science: Materials in Medicine, 2005, 16, 119-128.	3.6	21
13	Coating of ZrO2 supports with a biological glass. Journal of Materials Science: Materials in Medicine, 1998, 9, 309-316.	3.6	20
14	Optimized production of a highâ€performance hybrid biomaterial: biomineralized spider silk for bone tissue engineering. Journal of Applied Polymer Science, 2020, 137, 48739.	2.6	15
15	Growth Mechanisms of ZnO Micro-Nanomorphologies and Their Role in Enhancing Gas Sensing Properties. Sensors, 2021, 21, 1331.	3.8	14
16	Composites between hydroxyapatite and poly(Îμ-caprolactone) synthesized in open system at room temperature. Journal of Materials Science: Materials in Medicine, 2006, 17, 69-79.	3.6	13
17	Operational functionalities of air-quality W Sn metal-oxide sensors correlating semiconductor defect levels and surface potential barriers. Science of the Total Environment, 2020, 706, 135731.	8.0	11
18	Doped calcium–aluminium–phosphate cements for biomedical applications. Journal of Materials Science: Materials in Medicine, 2011, 22, 229-236.	3.6	9

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#	Article	IF	CITATIONS
19	Abrasive properties of ZnO: Influence of different nanoforms. Tribology International, 2020, 142, 105984.	5.9	9
20	Hydroxyapatite-collagen composites. Part I: can the decrease of the interactions between the two components be a physicochemical component of osteoporosis in aged bone?. Journal of Materials Science: Materials in Medicine, 2011, 22, 637-646.	3.6	8
21	Enhanced Gas Sensing Properties of Different ZnO 3D Hierarchical Structures. Advances in Science and Technology, 2016, 99, 48-53.	0.2	8
22	Investigation of the key parameters for gas sensing through comparison of electrospun and sol-gel semiconducting oxides. Ceramics International, 2022, 48, 20948-20960.	4.8	7
23	Perspectives of the Si3N4-TiN ceramic composite as a biomaterial and manufacturing of complex-shaped implantable devices by electrical discharge machining (EDM). Journal of Applied Biomaterials and Biomechanics, 2010, 8, 28-32.	0.4	4
24	Polymerization of Îμ-caprolactone initiated through powders of biological and nonbiological glasses. Journal of Applied Polymer Science, 2003, 87, 1579-1586.	2.6	2
25	Cements for biomedical applications. Mendeleev Communications, 2004, 14, 179-180.	1.6	2
26	Ultrasensitive Gas Sensors Based on Electrospun TiO2 and ZnO â€. Proceedings (mdpi), 2017, 1, 485.	0.2	1
27	Characterization of zirconia coated by bioactive glass. , 1997, , 139-142.		0
28	W-Sn Mixed Oxides: New Materials for Gas Sensing. Lecture Notes in Electrical Engineering, 2020, , 315-320.	0.4	0