

# Michele Bianchi

## List of Publications by Year in Descending Order

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**Version:** 2024-04-10

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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.

51 papers	852 citations	18 h-index	26 g-index
54 ext. papers	1,043 ext. citations	4.8 avg, IF	4.23 L-index

#	Paper	IF	Citations
51	Poly(3,4-ethylenedioxythiophene)-Based Neural Interfaces for Recording and Stimulation: Fundamental Aspects and In Vivo Applications.. <i>Advanced Science</i> , <b>2022</b> , e2104701	13.6	4
50	Evaluation of the In Vitro Biocompatibility of PEDOT:Nafion Coatings. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	5
49	Nanodecoration of electrospun polymeric fibers with nanostructured silver coatings by ionized jet deposition for antibacterial tissues. <i>Materials Science and Engineering C</i> , <b>2020</b> , 113, 110998	8.3	14
48	Water-Based PEDOT:Nafion Dispersion for Organic Bioelectronics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 29807-29817	9.5	6
47	A Comprehensive Microstructural and Compositional Characterization of Allogenic and Xenogenic Bone: Application to Bone Grafts and Nanostructured Biomimetic Coatings. <i>Coatings</i> , <b>2020</b> , 10, 522	2.9	6
46	Tunable Short-Term Plasticity Response in Three-Terminal Organic Neuromorphic Devices. <i>ACS Applied Electronic Materials</i> , <b>2020</b> , 2, 1849-1854	4	9
45	Scaling of capacitance of PEDOT:PSS: volume vs. area. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 11252-11262	11.262	15
44	The Pulsed Electron Deposition Technique for Biomedical Applications: A Review. <i>Coatings</i> , <b>2020</b> , 10, 16	2.9	8
43	Design of a novel procedure for the optimization of the mechanical performances of 3D printed scaffolds for bone tissue engineering combining CAD, Taguchi method and FEA. <i>Medical Engineering and Physics</i> , <b>2019</b> , 69, 92-99	2.4	6
42	Cartilage mechanical tests: Evolution of current standards for cartilage repair and tissue engineering. A literature review. <i>Clinical Biomechanics</i> , <b>2019</b> , 68, 58-72	2.2	11
41	Nanoindentation: An advanced procedure to investigate osteochondral engineered tissues. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2019</b> , 96, 79-87	4.1	6
40	Fabrication and characterization of biomimetic hydroxyapatite thin films for bone implants by direct ablation of a biogenic source. <i>Materials Science and Engineering C</i> , <b>2019</b> , 99, 853-862	8.3	15
39	Nano-mechanical investigation of engineered bone tissue and of the osteochondral interface. <i>Materials Today: Proceedings</i> , <b>2019</b> , 7, 516-521	1.4	1
38	Electrodeposited PEDOT:Nafion Composite for Neural Recording and Stimulation. <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, e1900765	10.1	30
37	Nanostructured Ag thin films deposited by pulsed electron ablation. <i>Applied Surface Science</i> , <b>2019</b> , 475, 917-925	6.7	13
36	A comparative study of the growth dynamics of zirconia thin films deposited by ionized jet deposition onto different substrates. <i>Surface and Coatings Technology</i> , <b>2018</b> , 337, 306-312	4.4	20
35	Structural and ultrastructural analyses of bone regeneration in rabbit cranial osteotomy: Piezosurgery versus traditional osteotomes. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , <b>2018</b> , 46, 107-118	3.6	28

34	A Review on Ionic Substitutions in Hydroxyapatite Thin Films: Towards Complete Biomimetism. <i>Coatings</i> , <b>2018</b> , 8, 269	2.9	65
33	Strontium doped calcium phosphate coatings on poly(etheretherketone) (PEEK) by pulsed electron deposition. <i>Surface and Coatings Technology</i> , <b>2017</b> , 319, 191-199	4.4	32
32	Effects of working gas pressure on zirconium dioxide thin film prepared by pulsed plasma deposition: roughness, wettability, friction and wear characteristics. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2017</b> , 72, 200-208	4.1	5
31	Interfacing Polymers and Tissues: Quantitative Local Assessment of the Foreign Body Reaction of Mononuclear Phagocytes to Polymeric Materials. <i>Advanced Biology</i> , <b>2017</b> , 1, e1700021	3.5	1
30	Plasma-assisted deposition of bone apatite-like thin films from natural apatite. <i>Materials Letters</i> , <b>2017</b> , 199, 32-36	3.3	14
29	Ion-substituted calcium phosphate coatings deposited by plasma-assisted techniques: A review. <i>Materials Science and Engineering C</i> , <b>2017</b> , 74, 219-229	8.3	66
28	A Nanomechanical Investigation of Engineered Bone Tissue Comparing Elastoplastic and Viscoelastoplastic Modeling. <i>Advances in Materials Science and Engineering</i> , <b>2017</b> , 2017, 1-8	1.5	
27	Pulsed Electron Deposition of nanostructured bioactive glass coatings for biomedical applications. <i>Ceramics International</i> , <b>2017</b> , 43, 15862-15867	5.1	18
26	Osteogenic Differentiation of hDPSCs on Biogenic Bone Apatite Thin Films. <i>Stem Cells International</i> , <b>2017</b> , 2017, 3579283	5	13
25	Magnetic forces and magnetized biomaterials provide dynamic flux information during bone regeneration. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2016</b> , 27, 51	4.5	26
24	Surface morphology, tribological properties and in vitro biocompatibility of nanostructured zirconia thin films. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2016</b> , 27, 96	4.5	16
23	Magnetic hydroxyapatite coatings as a new tool in medicine: A scanning probe investigation. <i>Materials Science and Engineering C</i> , <b>2016</b> , 62, 444-9	8.3	20
22	Tribological characterization of zirconia coatings deposited on Ti6Al4V components for orthopedic applications. <i>Materials Science and Engineering C</i> , <b>2016</b> , 62, 643-55	8.3	29
21	Optimizing thickness of ceramic coatings on plastic components for orthopedic applications: A finite element analysis. <i>Materials Science and Engineering C</i> , <b>2016</b> , 58, 381-8	8.3	9
20	The prospective opportunities offered by magnetic scaffolds for bone tissue engineering: a review. <i>Joints</i> , <b>2016</b> , 4, 228-235	1.1	26
19	Ceramic coatings for orthopaedic implants: preparation and characterization. <i>Surface and Interface Analysis</i> , <b>2016</b> , 48, 616-620	1.5	3
18	Nanomechanical mapping of bone tissue regenerated by magnetic scaffolds. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2015</b> , 26, 5363	4.5	11
17	CERAMIC THIN FILMS REALIZED BY MEANS OF PULSED PLASMA DEPOSITION TECHNIQUE: APPLICATIONS FOR ORTHOPEDICS. <i>Journal of Mechanics in Medicine and Biology</i> , <b>2015</b> , 15, 1540002	0.7	12

16	NANOMECHANICAL CHARACTERIZATION OF ZIRCONIA THIN FILMS DEPOSITED ON UHMWPE BY PULSED PLASMA DEPOSITION. <i>Journal of Mechanics in Medicine and Biology</i> , <b>2015</b> , 15, 1550070	0.7	14
15	Tough and adhesive nanostructured calcium phosphate thin films deposited by the pulsed plasma deposition method. <i>RSC Advances</i> , <b>2015</b> , 5, 78561-78571	3.7	22
14	Neural cell alignment by patterning gradients of the extracellular matrix protein laminin. <i>Interface Focus</i> , <b>2014</b> , 4, 20130041	3.9	26
13	Substrate geometry directs the in vitro mineralization of calcium phosphate ceramics. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 661-9	10.8	24
12	Pulsed plasma deposition of zirconia thin films on UHMWPE: proof of concept of a novel approach for joint prosthetic implants. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1, 310-318	7.3	22
11	Ethanol disinfection affects physical properties and cell response of electrospun poly(l-lactic acid) scaffolds. <i>European Polymer Journal</i> , <b>2012</b> , 48, 2008-2018	5.2	40
10	Nanotechnology for forensic sciences: analysis of PDMS replica of the case head of spent cartridges by optical microscopy, SEM and AFM for the ballistic identification of individual characteristic features of firearms. <i>Forensic Science International</i> , <b>2012</b> , 222, 288-97	2.6	10
9	Unconventional Multi-Scale Patterning of Titanium Dioxide: A New Tool for the Investigation of Cell Topography Interactions. <i>Advanced Engineering Materials</i> , <b>2012</b> , 14, B208-B215	3.5	4
8	Cell fluidics: producing cellular streams on micropatterned synthetic surfaces. <i>Langmuir</i> , <b>2012</b> , 28, 714-21		15
7	One-step substrate nanofabrication and patterning of nanoparticles by lithographically controlled etching. <i>Nanotechnology</i> , <b>2011</b> , 22, 355301	3.4	4
6	Electrochemiluminescent functionalizable cyclometalated thiophene-based iridium(III) complexes. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 1439-48	5.1	59
5	Control of neuronal cell adhesion on single-walled carbon nanotube 3D patterns. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 2213		22
4	Stable Non-Covalent Large Area Patterning of Inert Teflon-AF Surface: A New Approach to Multiscale Cell Guidance. <i>Advanced Engineering Materials</i> , <b>2010</b> , 12, B185-B191	3.5	16
3	Implantable Organic Artificial Synapses Exhibiting Crossover between Depressive and Facilitative Plasticity Response. <i>Advanced Electronic Materials</i> , 2100755	6.4	3
2	Pulsed Plasma Deposition (PPD) Technique1-7		1
1	A Novel Biasing Scheme of Electrolyte-Gated Organic Transistors for Safe In Vivo Amplification of Electrophysiological Signals. <i>Advanced Materials Interfaces</i> , 2101798	4.6	1