

Antonio Luis Medina-Castillo

List of Publications by Year in descending order

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48
papers

1,145
citations

361413

20
h-index

414414

32
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48
all docs

48
docs citations

48
times ranked

1444
citing authors

#	ARTICLE	IF	CITATIONS
1	Antibacterial Effect of Functionalized Polymeric Nanoparticles on Titanium Surfaces Using an In Vitro Subgingival Biofilm Model. <i>Polymers</i> , 2022, 14, 358.	4.5	7
2	Doxycycline-Doped Polymeric Membranes Induced Growth, Differentiation and Expression of Antigenic Phenotype Markers of Osteoblasts. <i>Polymers</i> , 2021, 13, 1063.	4.5	14
3	Doxycycline-doped membranes induced osteogenic gene expression on osteoblastic cells. <i>Journal of Dentistry</i> , 2021, 109, 103676.	4.1	15
4	Melatonin-doped polymeric nanoparticles reinforce and remineralize radicular dentin: Morpho-histological, chemical and biomechanical studies. <i>Dental Materials</i> , 2021, 37, 1107-1120.	3.5	9
5	Melatonin-doped polymeric nanoparticles induce high crystalline apatite formation in root dentin. <i>Dental Materials</i> , 2021, 37, 1698-1713.	3.5	4
6	Novel Pastes Containing Polymeric Nanoparticles for Dentin Hypersensitivity Treatment: An In Vitro Study. <i>Nanomaterials</i> , 2021, 11, 3150.	4.1	4
7	Polymeric nanoparticles for endodontic therapy. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 103, 103606.	3.1	24
8	Protein adsorption and bioactivity of functionalized electrospun membranes for bone regeneration. <i>Journal of Dentistry</i> , 2020, 102, 103473.	4.1	7
9	State of the Art on Biomaterials for Soft Tissue Augmentation in the Oral Cavity. Part II: Synthetic Polymers-Based Biomaterials. <i>Polymers</i> , 2020, 12, 1845.	4.5	9
10	Thermodynamic Principles of Precipitation Polymerization and Role of Fractal Nanostructures in the Particle Size Control. <i>Macromolecules</i> , 2020, 53, 5687-5700.	4.8	21
11	Polymeric nanoparticles protect the resin-dentin bonded interface from cariogenic biofilm degradation. <i>Acta Biomaterialia</i> , 2020, 111, 316-326.	8.3	24
12	Ex vivo investigations on bioinspired electrospun membranes as potential biomaterials for bone regeneration. <i>Journal of Dentistry</i> , 2020, 98, 103359.	4.1	17
13	Zn-containing polymer nanogels promote cervical dentin remineralization. <i>Clinical Oral Investigations</i> , 2019, 23, 1197-1208.	3.0	13
14	Antibacterial effects of polymeric PolymP-n Active nanoparticles. An in vitro biofilm study. <i>Dental Materials</i> , 2019, 35, 156-168.	3.5	37
15	Ionâ€modified nanoparticles induce different apatite formation in cervical dentine. <i>International Endodontic Journal</i> , 2018, 51, 1019-1029.	5.0	8
16	A multifunctional material based on co-electrospinning for developing biosensors with optical oxygen transduction. <i>Analytica Chimica Acta</i> , 2018, 1015, 66-73.	5.4	17
17	Evaluation of two sterically directed attachments of biomolecules on a coaxial nanofibre membrane to improve the development of optical biosensors. <i>Talanta</i> , 2018, 187, 83-90.	5.5	5
18	Improved reactive nanoparticles to treat dentin hypersensitivity. <i>Acta Biomaterialia</i> , 2018, 72, 371-380.	8.3	47

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19	Effect of functionalized PHEMA micro- and nano-particles on the viscoelastic properties of fibrin-agarose biomaterials. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 738-745.	4.0	5
20	Silver improves collagen structure and stability at demineralized dentin: A dynamic-mechanical and Raman analysis. <i>Journal of Dentistry</i> , 2018, 79, 61-67.	4.1	13
21	Modified Polymeric Nanoparticles Exert In Vitro Antimicrobial Activity Against Oral Bacteria. <i>Materials</i> , 2018, 11, 1013.	2.9	26
22	Ions-modified nanoparticles affect functional remineralization and energy dissipation through the resin-dentin interface. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 68, 62-79.	3.1	37
23	Novel potential scaffold for periodontal tissue engineering. <i>Clinical Oral Investigations</i> , 2017, 21, 2695-2707.	3.0	28
24	A microfluidic device with integrated coaxial nanofibre membranes for optical determination of glucose. <i>Sensors and Actuators B: Chemical</i> , 2017, 250, 156-161.	7.8	14
25	Bioactive Polymeric Nanoparticles for Periodontal Therapy. <i>PLoS ONE</i> , 2016, 11, e0166217.	2.5	53
26	A novel optical biosensor for direct and selective determination of serotonin in serum by Solid Surface-Room Temperature Phosphorescence. <i>Biosensors and Bioelectronics</i> , 2016, 82, 217-223.	10.1	26
27	Zinc-modified nanopolymers improve the quality of resin-dentin bonded interfaces. <i>Clinical Oral Investigations</i> , 2016, 20, 2411-2420.	3.0	31
28	Novel optical sensing film based on a functional nonwoven nanofibre mat for an easy, fast and highly selective and sensitive detection of tryptamine in beer. <i>Biosensors and Bioelectronics</i> , 2016, 79, 600-607.	10.1	44
29	Characterization of supports activated with divinyl sulfone as a tool to immobilize and stabilize enzymes via multipoint covalent attachment. Application to chymotrypsin. <i>RSC Advances</i> , 2015, 5, 20639-20649.	3.6	104
30	Evaluation of different functional groups for covalent immobilization of enzymes in the development of biosensors with oxygen optical transduction. <i>Analytical Methods</i> , 2015, 7, 2943-2949.	2.7	11
31	Polymer Nanocarriers for Dentin Adhesion. <i>Journal of Dental Research</i> , 2014, 93, 1258-1263.	5.2	47
32	A sensing microfibre mat produced by electrospinning for the turn-on luminescence determination of Hg ²⁺ in water samples. <i>Sensors and Actuators B: Chemical</i> , 2014, 195, 8-14.	7.8	21
33	A new highly sensitive and versatile optical sensing film for controlling CO ₂ in gaseous and aqueous media. <i>Sensors and Actuators B: Chemical</i> , 2013, 184, 281-287.	7.8	18
34	Hg ²⁺ -selective sensing film based on the incorporation of a rhodamine 6G derivative into a novel hydrophilic water-insoluble copolymer. <i>Analytical Methods</i> , 2013, 5, 6642.	2.7	13
35	Novel synthetic route for covalent coupling of biomolecules on superparamagnetic hybrid nanoparticles. <i>Journal of Polymer Science Part A</i> , 2012, 50, 3944-3953.	2.3	26
36	Atom Transfer Radical Polymerisation (ATRP) as a Tool for the Development of Optical Sensing Phases. <i>Israel Journal of Chemistry</i> , 2012, 52, 264-275.	2.3	6

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37	Design and synthesis by ATRP of novel, water-insoluble, lineal copolymers and their application in the development of fluorescent and pH-sensing nanofibres made by electrospinning. <i>Journal of Materials Chemistry</i> , 2011, 21, 6742.	6.7	18
38	Mini-emulsion solvent evaporation: a simple and versatile way to magnetic nanosensors. <i>Mikrochimica Acta</i> , 2011, 172, 299-308.	5.0	20
39	One-Step Fabrication of Multifunctional Core-Shell Fibres by Co-Electrospinning. <i>Advanced Functional Materials</i> , 2011, 21, 3488-3495.	14.9	36
40	Optical Sensors: One-Step Fabrication of Multifunctional Core-Shell Fibres by Co-Electrospinning (Adv.) <i>Tj ETQq, 0, 0 rgBT /Overloc</i>	14.9	36
41	Synthesis and characterization of a molecularly imprinted polymer optosensor for TEXs-screening in drinking water. <i>Biosensors and Bioelectronics</i> , 2011, 26, 3331-3338.	10.1	13
42	Synthesis of a novel polyurethane-based-magnetic imprinted polymer for the selective optical detection of 1-naphthylamine in drinking water. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4520-4525.	10.1	40
43	Luminescent organotin complexes with the ligand benzil bis(benzoylhydrazone). <i>Journal of Organometallic Chemistry</i> , 2010, 695, 2305-2310.	1.8	12
44	Micrometer and Submicrometer Particles Prepared by Precipitation Polymerization: Thermodynamic Model and Experimental Evidence of the Relation between Flory's Parameter and Particle Size. <i>Macromolecules</i> , 2010, 43, 5804-5813.	4.8	63
45	Novel Strategy To Design Magnetic, Molecular Imprinted Polymers with Well-Controlled Structure for the Application in Optical Sensors. <i>Macromolecules</i> , 2010, 43, 55-61.	4.8	60
46	A semi-empirical model to simplify the synthesis of homogeneous and transparent cross-linked polymers and their application in the preparation of optical sensing films. <i>Biosensors and Bioelectronics</i> , 2009, 25, 442-449.	10.1	16
47	A rapid, sensitive screening test for polycyclic aromatic hydrocarbons applied to Antarctic water. <i>Chemosphere</i> , 2007, 67, 903-910.	8.2	16
48	Engineering of efficient phosphorescent iridium cationic complex for developing oxygen-sensitive polymeric and nanostructured films. <i>Analyst, The</i> , 2007, 132, 929.	3.5	46