

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	Characterization of supports activated with divinyl sulfone as a tool to immobilize and stabilize enzymes via multipoint covalent attachment. Application to chymotrypsin. RSC Advances, 2015, 5, 20639-20649.	3.6	104
2	Micrometer and Submicrometer Particles Prepared by Precipitation Polymerization: Thermodynamic Model and Experimental Evidence of the Relation between Flory's Parameter and Particle Size. Macromolecules, 2010, 43, 5804-5813.	4.8	63
3	Novel Strategy To Design Magnetic, Molecular Imprinted Polymers with Well-Controlled Structure for the Application in Optical Sensors. Macromolecules, 2010, 43, 55-61.	4.8	60
4	Bioactive Polymeric Nanoparticles for Periodontal Therapy. PLoS ONE, 2016, 11, e0166217.	2.5	53
5	Polymer Nanocarriers for Dentin Adhesion. Journal of Dental Research, 2014, 93, 1258-1263.	5.2	47
6	Improved reactive nanoparticles to treat dentin hypersensitivity. Acta Biomaterialia, 2018, 72, 371-380.	8.3	47
7	Engineering of efficient phosphorescent iridium cationic complex for developing oxygen-sensitive polymeric and nanostructured films. Analyst, The, 2007, 132, 929.	3.5	46
8	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. Biosensors and Bioelectronics, 2016, 79, 600-607.	10.1	44
9	Synthesis of a novel polyurethane-based-magnetic imprinted polymer for the selective optical detection of 1-naphthylamine in drinking water. Biosensors and Bioelectronics, 2011, 26, 4520-4525.	10.1	40
10	Ions-modified nanoparticles affect functional remineralization and energy dissipation through the resin-dentin interface. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 68, 62-79.	3.1	37
11	Antibacterial effects of polymeric PolymP-n Active nanoparticles. An in vitro biofilm study. Dental Materials, 2019, 35, 156-168.	3.5	37
12	One-Step Fabrication of Multifunctional Core-Shell Fibres by Co-Electrospinning. Advanced Functional Materials, 2011, 21, 3488-3495.	14.9	36
13	Zinc-modified nanopolymers improve the quality of resin-dentin bonded interfaces. Clinical Oral Investigations, 2016, 20, 2411-2420.	3.0	31
14	Novel potential scaffold for periodontal tissue engineering. Clinical Oral Investigations, 2017, 21, 2695-2707.	3.0	28
15	Novel synthetic route for covalent coupling of biomolecules on superparamagnetic hybrid nanoparticles. Journal of Polymer Science Part A, 2012, 50, 3944-3953.	2.3	26
16	A novel optical biosensor for direct and selective determination of serotonin in serum by Solid Surface-Room Temperature Phosphorescence. Biosensors and Bioelectronics, 2016, 82, 217-223.	10.1	26
17	Modified Polymeric Nanoparticles Exert In Vitro Antimicrobial Activity Against Oral Bacteria. Materials, 2018, 11, 1013.	2.9	26
18	Polymeric nanoparticles for endodontic therapy. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 103, 103606.	3.1	24

#	ARTICLE	IF	CITATIONS
19	Polymeric nanoparticles protect the resin-dentin bonded interface from cariogenic biofilm degradation. <i>Acta Biomaterialia</i> , 2020, 111, 316-326.	8.3	24
20	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
21	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
22	Mini-emulsion solvent evaporation: a simple and versatile way to magnetic nanosensors. <i>Mikrochimica Acta</i> , 2011, 172, 299-308.	5.0	20
23	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
24	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
25	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
26	Ex vivo investigations on bioinspired electrospun membranes as potential biomaterials for bone regeneration. <i>Journal of Dentistry</i> , 2020, 98, 103359.	4.1	17
27	A rapid, sensitive screening test for polycyclic aromatic hydrocarbons applied to Antarctic water. <i>Chemosphere</i> , 2007, 67, 903-910.	8.2	16
28	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
29	Doxycycline-doped membranes induced osteogenic gene expression on osteoblastic cells. <i>Journal of Dentistry</i> , 2021, 109, 103676.	4.1	15
30	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
31	Doxycycline-Doped Polymeric Membranes Induced Growth, Differentiation and Expression of Antigenic Phenotype Markers of Osteoblasts. <i>Polymers</i> , 2021, 13, 1063.	4.5	14
32	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
33	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
34	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
35	Zn-containing polymer nanogels promote cervical dentin remineralization. <i>Clinical Oral Investigations</i> , 2019, 23, 1197-1208.	3.0	13
36	Luminescent organotin complexes with the ligand benzil bis(benzoylhydrazone). <i>Journal of Organometallic Chemistry</i> , 2010, 695, 2305-2310.	1.8	12

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37	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
38	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
39	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
40	Ion-modified nanoparticles induce different apatite formation in cervical dentine. <i>International Endodontic Journal</i> , 2018, 51, 1019-1029.	5.0	8
41	Protein adsorption and bioactivity of functionalized electrospun membranes for bone regeneration. <i>Journal of Dentistry</i> , 2020, 102, 103473.	4.1	7
42	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
43	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
44	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
45	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
46	Melatonin-doped polymeric nanoparticles induce high crystalline apatite formation in root dentin. <i>Dental Materials</i> , 2021, 37, 1698-1713.	3.5	4
47	Novel Pastes Containing Polymeric Nanoparticles for Dentin Hypersensitivity Treatment: An In Vitro Study. <i>Nanomaterials</i> , 2021, 11, 3150.	4.1	4
48	Optical Sensors: One-Step Fabrication of Multifunctional Core-Shell Fibres by Co-Electrospinning (Adv.) <i>Trends in Analytical Chemistry</i> , 2021, 119, 116-125.	11.9	8