

Ana Paula Serro

List of Publications by Year in descending order

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105
papers

3,886
citations

147726

31
h-index

149623

56
g-index

107
all docs

107
docs citations

107
times ranked

4795
citing authors

#	ARTICLE	IF	CITATIONS
1	Additive manufacturing of ceramics for dental applications: A review. <i>Dental Materials</i> , 2019, 35, 825-846.	1.6	264
2	Femtosecond laser surface texturing of titanium as a method to reduce the adhesion of <i>Staphylococcus aureus</i> and biofilm formation. <i>Applied Surface Science</i> , 2016, 360, 485-493.	3.1	195
3	Wetting behaviour of femtosecond laser textured Ti-6Al-4V surfaces. <i>Applied Surface Science</i> , 2013, 265, 688-696.	3.1	187
4	A comparative study of titanium nitrides, TiN, TiNbN and TiCN, as coatings for biomedical applications. <i>Surface and Coatings Technology</i> , 2009, 203, 3701-3707.	2.2	182
5	Friction and wear mechanisms in hip prosthesis: Comparison of joint materials behaviour in several lubricants. <i>Wear</i> , 2006, 260, 149-158.	1.5	159
6	High-temperature surface tension and density measurements of 1-alkyl-3-methylimidazolium bistriflamide ionic liquids. <i>Fluid Phase Equilibria</i> , 2010, 294, 131-138.	1.4	145
7	Influence of sterilization on the mineralization of titanium implants induced by incubation in various biological model fluids. <i>Biomaterials</i> , 2003, 24, 4749-4760.	5.7	115
8	Hydrophobicity, surface tension, and zeta potential measurements of glass-reinforced hydroxyapatite composites. , 1999, 45, 370-375.		112
9	Apatite deposition on titanium surfaces – the role of albumin adsorption. <i>Biomaterials</i> , 1997, 18, 963-968.	5.7	111
10	Viscosity and Surface Tension of 1-Ethanol-3-methylimidazolium Tetrafluoroborate and 1-Methyl-3-octylimidazolium Tetrafluoroborate over a Wide Temperature Range. <i>Journal of Chemical & Engineering Data</i> , 2009, 54, 950-955.	1.0	108
11	Sterilization of hydrogels for biomedical applications: A review. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018, 106, 2472-2492.	1.6	102
12	Adsorption of albumin on prosthetic materials: Implication for tribological behavior. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 78A, 581-589.	2.1	96
13	Chitosan/alginate based multilayers to control drug release from ophthalmic lens. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 147, 81-89.	2.5	70
14	Bovine serum albumin conformational changes upon adsorption on titania and on hydroxyapatite and their relation with biomineralization. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 70A, 420-427.	3.0	64
15	Controlled Release of Antibiotics From Vitamin E-Loaded Silicone-Hydrogel Contact Lenses. <i>Journal of Pharmaceutical Sciences</i> , 2016, 105, 1164-1172.	1.6	59
16	Suitability of 3D printed pieces of nanocrystalline zirconia for dental applications. <i>Dental Materials</i> , 2020, 36, 442-455.	1.6	57
17	Formation of an intact liposome layer adsorbed on oxidized gold confirmed by three complementary techniques: QCM-D, AFM and confocal fluorescence microscopy. <i>Surface and Interface Analysis</i> , 2012, 44, 426-433.	0.8	56
18	Bovine serum albumin adsorption onto 316L stainless steel and alumina: a comparative study using depletion, protein radiolabeling, quartz crystal microbalance and atomic force microscopy. <i>Surface and Interface Analysis</i> , 2008, 40, 1529-1537.	0.8	52

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19	Adsorption of albumin and sodium hyaluronate on UHMWPE: A QCM-D and AFM study. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 78, 1-7.	2.5	50
20	Calcium phosphate deposition on titanium surfaces in the presence of fibronectin. , 2000, 49, 345-352.		46
21	Controlled drug release from hydrogels for contact lenses: Drug partitioning and diffusion. <i>International Journal of Pharmaceutics</i> , 2016, 515, 467-475.	2.6	44
22	Mineralisation of two phosphate ceramics in HBSS: role of albumin. <i>Biomaterials</i> , 2003, 24, 451-460.	5.7	43
23	Polyvinyl alcohol/chitosan wound dressings loaded with antiseptics. <i>International Journal of Pharmaceutics</i> , 2021, 593, 120110.	2.6	43
24	Effect of chemical composition on hydrophobicity and zeta potential of plasma sprayed HA/CaOâ€P2O5 glass coatings. <i>Biomaterials</i> , 2001, 22, 3105-3112.	5.7	41
25	Tribomechanical Comparison between PVA Hydrogels Obtained Using Different Processing Conditions and Human Cartilage. <i>Materials</i> , 2019, 12, 3413.	1.3	40
26	Comparison of two hydrogel formulations for drug release in ophthalmic lenses. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2014, 102, 1170-1180.	1.6	39
27	The effect of albumin and cholesterol on the biotribological behavior of hydrogels for contact lenses. <i>Acta Biomaterialia</i> , 2015, 26, 184-194.	4.1	37
28	About the Sterilization of Chitosan Hydrogel Nanoparticles. <i>PLoS ONE</i> , 2016, 11, e0168862.	1.1	36
29	Comparative study of the wear of the pair human teeth/Vita EnamicÂ® vs commonly used dental ceramics through chewing simulation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 88, 251-260.	1.5	35
30	Wear of ceramic coated metal-on-metal bearings used for hip replacement. <i>Wear</i> , 2007, 263, 1060-1065.	1.5	34
31	Evaluation of the in vitro biocompatibility of PMMA/high-load HA/carbon nanostructures bone cement formulations. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 2787-2796.	1.7	34
32	Antibacterial layer-by-layer coatings to control drug release from soft contact lenses material. <i>International Journal of Pharmaceutics</i> , 2018, 553, 186-200.	2.6	33
33	Dual drug delivery from hydrophobic and hydrophilic intraocular lenses: in-vitro and in-vivo studies. <i>Journal of Controlled Release</i> , 2020, 326, 245-255.	4.8	33
34	Interaction of local and general anaesthetics with liposomal membrane models: A QCM-D and DSC study. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 95, 65-74.	2.5	32
35	Tribological behaviour of unveneered and veneered lithium disilicate dental material. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 53, 226-238.	1.5	32
36	Drug-eluting silicone hydrogel for therapeutic contact lenses: Impact of sterilization methods on the system performance. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 161, 537-546.	2.5	30

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37	Effects of ionic surfactants used in reversed micelles on cutinase activity and stability. <i>BBA - Proteins and Proteomics</i> , 2000, 1480, 92-106.	2.1	28
38	Tribological behaviour of Cl-implanted TiN coatings for biomedical applications. <i>Wear</i> , 2007, 262, 1337-1345.	1.5	28
39	Adhesion forces in liquid media: Effect of surface topography and wettability. <i>Journal of Colloid and Interface Science</i> , 2008, 325, 573-579.	5.0	28
40	Effect of feldspar porcelain coating upon the wear behavior of zirconia dental crowns. <i>Wear</i> , 2013, 297, 872-877.	1.5	28
41	New Polyurethane Nail Lacquers for the Delivery of Terbinafine: Formulation and Antifungal Activity Evaluation. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 1570-1577.	1.6	28
42	An energy-based model for the wear of UHMWPE. <i>Tribology Letters</i> , 2007, 26, 119-124.	1.2	27
43	Characterization of two DLC coatings for joint prosthesis: The role of albumin on the tribological behavior. <i>Surface and Coatings Technology</i> , 2010, 204, 3451-3458.	2.2	27
44	Effect of tetracaine on DMPC and DMPC+cholesterol biomembrane models: Liposomes and monolayers. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 116, 63-71.	2.5	27
45	Therapeutic Ophthalmic Lenses: A Review. <i>Pharmaceutics</i> , 2021, 13, 36.	2.0	27
46	Mineralisation of two calcium phosphate ceramics in biological model fluids. <i>Journal of Materials Chemistry</i> , 2003, 13, 1484-1490.	6.7	26
47	Moxifloxacin-imprinted silicone-based hydrogels as contact lens materials for extended drug release. <i>European Journal of Pharmaceutical Sciences</i> , 2021, 156, 105591.	1.9	25
48	Diclofenac sustained release from sterilised soft contact lens materials using an optimised layer-by-layer coating. <i>International Journal of Pharmaceutics</i> , 2020, 585, 119506.	2.6	24
49	Anesthetics interacting with lipid rafts. <i>European Journal of Pharmaceutical Sciences</i> , 2013, 48, 153-165.	1.9	23
50	Hydrogels for diabetic eyes: Naltrexone loading, release profiles and cornea penetration. <i>Materials Science and Engineering C</i> , 2019, 105, 110092.	3.8	23
51	A State-of-the-Art Review on the Wear of the Occlusal Surfaces of Natural Teeth and Prosthetic Crowns. <i>Materials</i> , 2020, 13, 3525.	1.3	23
52	3D Bioprinting of Novel Î©-Carrageenan Bioinks: An Algae-Derived Polysaccharide. <i>Bioengineering</i> , 2022, 9, 109.	1.6	23
53	Diisodecylphthalate (DIDP)â€”a potential standard of moderate viscosity: Surface tension measurements and water content effect on viscosity. <i>Fluid Phase Equilibria</i> , 2006, 245, 1-5.	1.4	22
54	About the effect of eye blinking on drug release from pHEMA-based hydrogels: an <i>in vitro</i> study. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2015, 26, 235-251.	1.9	21

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55	Simulation of the hydrodynamic conditions of the eye to better reproduce the drug release from hydrogel contact lenses: experiments and modeling. <i>Drug Delivery and Translational Research</i> , 2016, 6, 755-762.	3.0	21
56	Sterilization of silicone-based hydrogels for biomedical application using ozone gas: Comparison with conventional techniques. <i>Materials Science and Engineering C</i> , 2017, 78, 389-397.	3.8	21
57	Imprinted hydrogels with LbL coating for dual drug release from soft contact lenses materials. <i>Materials Science and Engineering C</i> , 2021, 120, 111687.	3.8	21
58	Resveratrol-Loaded Hydrogel Contact Lenses with Antioxidant and Antibiofilm Performance. <i>Pharmaceutics</i> , 2021, 13, 532.	2.0	21
59	PVA-Based Hydrogels Loaded with Diclofenac for Cartilage Replacement. <i>Gels</i> , 2022, 8, 143.	2.1	21
60	Dynamic interfacial behaviour of bovine serum albumin solutions on titanium surfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1997, 125, 209-219.	2.3	20
61	Influence of contact configuration and lubricating conditions on the microtriboactivity of the zirconia-Ti6Al4V pair used in dental applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 91, 164-173.	1.5	20
62	Atorvastatin-Eluting Contact Lenses: Effects of Molecular Imprinting and Sterilization on Drug Loading and Release. <i>Pharmaceutics</i> , 2021, 13, 606.	2.0	20
63	The influence of proteins on calcium phosphate deposition over titanium implants studied by dynamic contact angle analysis and XPS. <i>Colloids and Surfaces B: Biointerfaces</i> , 1997, 10, 95-104.	2.5	19
64	Controlled release of moxifloxacin from intraocular lenses modified by Ar plasma-assisted grafting with AMPS or SBMA: An in vitro study. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 156, 95-103.	2.5	19
65	Surface modification of an intraocular lens material by plasma-assisted grafting with 2-hydroxyethyl methacrylate (HEMA), for controlled release of moxifloxacin. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017, 120, 52-62.	2.0	19
66	Intraocular lenses as drug delivery devices. <i>International Journal of Pharmaceutics</i> , 2021, 602, 120613.	2.6	19
67	Laser Nanopatterning for Wettability Applications. <i>Journal of Micro and Nano-Manufacturing</i> , 2017, 5, .	0.8	18
68	On the stability of bubbles trapped at a solid-liquid interface: A thermodynamical approach. <i>Surface Science</i> , 2009, 603, 2870-2873.	0.8	17
69	Nonlinear laser lithography to control surface properties of stainless steel. <i>CIRP Annals - Manufacturing Technology</i> , 2015, 64, 193-196.	1.7	17
70	Ageing effects on the wettability behavior of laser textured silicon. <i>Applied Surface Science</i> , 2011, 257, 2604-2609.	3.1	16
71	Drug delivery to the eye anterior chamber by intraocular lenses: An in vivo concentration estimation model. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 133, 63-69.	2.0	16
72	Moxifloxacin-loaded acrylic intraocular lenses: In vitro and in vivo performance. <i>Journal of Cataract and Refractive Surgery</i> , 2019, 45, 1808-1817.	0.7	16

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73	High Hydrostatic Pressure as Sterilization Method for Drug-Loaded Intraocular Lenses. ACS Biomaterials Science and Engineering, 2020, 6, 4051-4061.	2.6	16
74	Tough and Low Friction Polyvinyl Alcohol Hydrogels Loaded with Anti-inflammatories for Cartilage Replacement. Lubricants, 2020, 8, 36.	1.2	16
75	Effect of alkyl chain length on the adsorption and frictional behaviour of 1-alkyl-3-methylimidazolium chloride ionic liquid surfactants on gold surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 377, 361-366.	2.3	15
76	Effect of plasma treatment on the performance of two drug-loaded hydrogel formulations for therapeutic contact lenses. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2015, 103, 1059-1068.	1.6	15
77	Interaction of the Alzheimer A β (25-35) peptide segment with model membranes. Colloids and Surfaces B: Biointerfaces, 2016, 141, 10-18.	2.5	15
78	The effect of roughness on the tribological behavior of the prosthetic pair UHMWPE/TiN-coated stainless steel. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 84B, 98-107.	1.6	14
79	Micro-to-nano triboactivity of hydrogenated DLC films. Journal Physics D: Applied Physics, 2009, 42, 085307.	1.3	14
80	Contact lenses as drug controlled release systems: a narrative review. Revista Brasileira De Oftalmologia, 2016, 75, .	0.1	13
81	Drug release from liposome coated hydrogels for soft contact lenses: the blinking and temperature effect. , 2017, 105, 1799-1807.		13
82	Contact lenses for pravastatin delivery to eye segments: Design and in vitro-in vivo correlations. Journal of Controlled Release, 2022, 348, 431-443.	4.8	13
83	In vitromineralization of a glass-ceramic of the MgO-3CaO \hat{A} P2O5-SiO2system: Wettability studies. Journal of Biomedical Materials Research Part B, 2002, 61, 99-108.	3.0	12
84	Optimization of intraocular lens hydrogels for dual drug release: Experimentation and modelling. European Journal of Pharmaceutics and Biopharmaceutics, 2019, 141, 51-57.	2.0	12
85	Tribological performance of the pair human teeth vs 3D printed zirconia: An in vitro chewing simulation study. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 110, 103900.	1.5	12
86	Asymmetry in Drug Permeability through the Cornea. Pharmaceutics, 2021, 13, 694.	2.0	10
87	Controlled adsorption of cytochrome c to nanostructured gold surfaces. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	9
88	Diffusion-Based Design of Multi-Layered Ophthalmic Lenses for Controlled Drug Release. PLoS ONE, 2016, 11, e0167728.	1.1	9
89	Drug-Loaded Hydrogels for Intraocular Lenses with Prophylactic Action against Pseudophakic Cystoid Macular Edema. Pharmaceutics, 2021, 13, 976.	2.0	9
90	Effect of albumin, urea, lysozyme and mucin on the triboactivity of Ti6Al4V/zirconia pair used in dental implants. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 118, 104451.	1.5	9

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91	The effects of addition of functional monomers and molecular imprinting on dual drug release from intraocular lens material. <i>International Journal of Pharmaceutics</i> , 2021, 600, 120513.	2.6	8
92	Ultrafast laser texturing of Ti-6Al-4V surfaces for biomedical applications. , 2013, , .		7
93	Polyurethanes as New Excipients in Nail Therapeutics. <i>Pharmaceutics</i> , 2018, 10, 276.	2.0	6
94	Moxifloxacin imprinted silicon based hydrogels for sustained ocular release. <i>Annals of Medicine</i> , 2024, 51, 103-103.	1.5	6
95	Effect of Albumin Adsorption on Biotribological Properties of Artificial Joint Materials. <i>ACS Symposium Series</i> , 2012, , 497-523.	0.5	4
96	Influence of Sterilization with β -Irradiation in the Degradation of Plasma Sprayed Hydroxyapatite Coatings. <i>Materials Science Forum</i> , 2006, 514-516, 1054-1058.	0.3	3
97	Response to "Comment on: On the stability of bubbles trapped at a solid-liquid interface: A thermodynamical approach" by J. Seddon and H. Zandvliet. <i>Surface Science</i> , 2010, 604, 478-479.	0.8	3
98	Characterization of the Nanostructure of Collagen Fibers Following the Application of Dilute Hydrogen Peroxide used in Dental Whitening Treatments. <i>Analytical Letters</i> , 2020, 53, 705-713.	1.0	2
99	Wettability and Nanotribological Response of Silicon Surfaces Functionalized by Ion Implantation. <i>Materials Science Forum</i> , 0, 730-732, 257-262.	0.3	1
100	Development of polycarbonate urethane-based materials with controlled diclofenac release for cartilage replacement. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2022, 110, 1839-1852.	1.6	1
101	Biomaterials research at NanoLab(IST): Seeding seeds for the future. , 2011, , .		0
102	Interaction between anaesthetics and model biomembrane systems. , 2011, , .		0
103	Interactions between anesthetics and lipid rafts. , 2012, , .		0
104	Controlled drug release from dental obturation cements. , 2012, , .		0
105	Multifunctional Properties of High-speed Highly Uniform Femtosecond Laser Patterning on Stainless steel. , 2017, , .		0