Ana Paula Serro

List of Publications by Year
in descending order

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105	3,886	147726	149623
papers	citations	31 h-index	56 g-index

107	107	107	4795
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Moxifloxacin imprinted silicon based hydrogels for sustained ocular release. Annals of Medicine, 2024, 51, 103-103.	1.5	6
2	Development of polycarbonate urethaneâ€based materials with controlled diclofenac release for cartilage replacement. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2022, 110, 1839-1852.	1.6	1
3	PVA-Based Hydrogels Loaded with Diclofenac for Cartilage Replacement. Gels, 2022, 8, 143.	2.1	21
4	3D Bioprinting of Novel Î¹-Carrageenan Bioinks: An Algae-Derived Polysaccharide. Bioengineering, 2022, 9, 109.	1.6	23
5	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
6	Imprinted hydrogels with LbL coating for dual drug release from soft contact lenses materials. Materials Science and Engineering C, 2021, 120, 111687.	3.8	21
7	Polyvinyl alcohol/chitosan wound dressings loaded with antiseptics. International Journal of Pharmaceutics, 2021, 593, 120110.	2.6	43
8	Moxifloxacin-imprinted silicone-based hydrogels as contact lens materials for extended drug release. European Journal of Pharmaceutical Sciences, 2021, 156, 105591.	1.9	25
9	Atorvastatin-Eluting Contact Lenses: Effects of Molecular Imprinting and Sterilization on Drug Loading and Release. Pharmaceutics, 2021, 13, 606.	2.0	20
10	Resveratrol-Loaded Hydrogel Contact Lenses with Antioxidant and Antibiofilm Performance. Pharmaceutics, 2021, 13, 532.	2.0	21
11	Asymmetry in Drug Permeability through the Cornea. Pharmaceutics, 2021, 13, 694.	2.0	10
12	The effects of addition of functional monomers and molecular imprinting on dual drug release from intraocular lens material. International Journal of Pharmaceutics, 2021, 600, 120513.	2.6	8
13	Drug-Loaded Hydrogels for Intraocular Lenses with Prophylactic Action against Pseudophakic Cystoid Macular Edema. Pharmaceutics, 2021, 13, 976.	2.0	9
14	Intraocular lenses as drug delivery devices. International Journal of Pharmaceutics, 2021, 602, 120613.	2.6	19
15	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
16	Therapeutic Ophthalmic Lenses: A Review. Pharmaceutics, 2021, 13, 36.	2.0	27
17	Characterization of the Nanostructure of Collagen Fibers Following the Application of Dilute Hydrogen Peroxide used in Dental Whitening Treatments. Analytical Letters, 2020, 53, 705-713.	1.0	2
18	Dual drug delivery from hydrophobic and hydrophilic intraocular lenses: in-vitro and in-vivo studies. Journal of Controlled Release, 2020, 326, 245-255.	4.8	33

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19	A State-of-the-Art Review on the Wear of the Occlusal Surfaces of Natural Teeth and Prosthetic Crowns. Materials, 2020, 13, 3525.	1.3	23
20	High Hydrostatic Pressure as Sterilization Method for Drug-Loaded Intraocular Lenses. ACS Biomaterials Science and Engineering, 2020, 6, 4051-4061.	2.6	16
21	Diclofenac sustained release from sterilised soft contact lens materials using an optimised layer-by-layer coating. International Journal of Pharmaceutics, 2020, 585, 119506.	2.6	24
22	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
23	Suitability of 3D printed pieces of nanocrystalline zirconia for dental applications. Dental Materials, 2020, 36, 442-455.	1.6	57
24	Tough and Low Friction Polyvinyl Alcohol Hydrogels Loaded with Anti-inflammatories for Cartilage Replacement. Lubricants, 2020, 8, 36.	1.2	16
25	Tribomechanical Comparison between PVA Hydrogels Obtained Using Different Processing Conditions and Human Cartilage. Materials, 2019, 12, 3413.	1.3	40
26	Hydrogels for diabetic eyes: Naltrexone loading, release profiles and cornea penetration. Materials Science and Engineering C, 2019, 105, 110092.	3.8	23
27	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
28	Additive manufacturing of ceramics for dental applications: A review. Dental Materials, 2019, 35, 825-846.	1.6	264
29	Moxifloxacin-loaded acrylic intraocular lenses: In vitro and in vivo performance. Journal of Cataract and Refractive Surgery, 2019, 45, 1808-1817.	0.7	16
30	Influence of contact configuration and lubricating conditions on the microtriboactivity of the zirconia-Ti6Al4V pair used in dental applications. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 91, 164-173.	1.5	20
31	Sterilization of hydrogels for biomedical applications: A review. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 2472-2492.	1.6	102
32	Drug-eluting silicone hydrogel for therapeutic contact lenses: Impact of sterilization methods on the system performance. Colloids and Surfaces B: Biointerfaces, 2018, 161, 537-546.	2.5	30
33	Polyurethanes as New Excipients in Nail Therapeutics. Pharmaceutics, 2018, 10, 276.	2.0	6
34	Drug delivery to the eye anterior chamber by intraocular lenses: An in vivo concentration estimation model. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 133, 63-69.	2.0	16
35	Antibacterial layer-by-layer coatings to control drug release from soft contact lenses material. International Journal of Pharmaceutics, 2018, 553, 186-200.	2.6	33
36	Comparative study of the wear of the pair human teeth/Vita EnamicÂ® vs commonly used dental ceramics through chewing simulation. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 88, 251-260.	1.5	35

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37	Drug release from liposome coated hydrogels for soft contact lenses: the blinking and temperature effect. , 2017, 105, 1799-1807.		13
38	New Polyurethane Nail Lacquers for the Delivery of Terbinafine: Formulation and Antifungal Activity Evaluation. Journal of Pharmaceutical Sciences, 2017, 106, 1570-1577.	1.6	28
39	Laser Nanopatterning for Wettability Applications. Journal of Micro and Nano-Manufacturing, 2017, 5, .	0.8	18
40	Controlled release of moxifloxacin from intraocular lenses modified by Ar plasma-assisted grafting with AMPS or SBMA: An in vitro study. Colloids and Surfaces B: Biointerfaces, 2017, 156, 95-103.	2.5	19
41	Sterilization of silicone-based hydrogels for biomedical application using ozone gas: Comparison with conventional techniques. Materials Science and Engineering C, 2017, 78, 389-397.	3.8	21
42	Surface modification of an intraocular lens material by plasma-assisted grafting with 2-hydroxyethyl methacrylate (HEMA), for controlled release of moxifloxacin. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 120, 52-62.	2.0	19
43	Multifunctional Properties of High-speed Highly Uniform Femtosecond Laser Patterning on Stainless steel. , 2017, , .		0
44	Contact lenses as drug controlled release systems: a narrative review. Revista Brasileira De Oftalmologia, 2016, 75, .	0.1	13
45	Diffusion-Based Design of Multi-Layered Ophthalmic Lenses for Controlled Drug Release. PLoS ONE, 2016, 11, e0167728.	1.1	9
46	About the Sterilization of Chitosan Hydrogel Nanoparticles. PLoS ONE, 2016, 11, e0168862.	1.1	36
47	Chitosan/alginate based multilayers to control drug release from ophthalmic lens. Colloids and Surfaces B: Biointerfaces, 2016, 147, 81-89.	2.5	70
48	Controlled drug release from hydrogels for contact lenses: Drug partitioning and diffusion. International Journal of Pharmaceutics, 2016, 515, 467-475.	2.6	44
49	Simulation of the hydrodynamic conditions of the eye to better reproduce the drug release from hydrogel contact lenses: experiments and modeling. Drug Delivery and Translational Research, 2016, 6, 755-762.	3.0	21
50	Interaction of the Alzheimer AÎ²(25â€“35) peptide segment with model membranes. Colloids and Surfaces B: Biointerfaces, 2016, 141, 10-18.	2.5	15
51	Femtosecond laser surface texturing of titanium as a method to reduce the adhesion of Staphylococcus aureus and biofilm formation. Applied Surface Science, 2016, 360, 485-493.	3.1	195
52	Controlled Release of Antibiotics From Vitamin Eâ€“Loaded Silicone-Hydrogel Contact Lenses. Journal of Pharmaceutical Sciences, 2016, 105, 1164-1172.	1.6	59
53	Tribological behaviour of unveneered and veneered lithium disilicate dental material. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 53, 226-238.	1.5	32
54	Effect of plasma treatment on the performance of two drugâ€loaded hydrogel formulations for therapeutic contact lenses. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2015, 103, 1059-1068.	1.6	15

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55	About the effect of eye blinking on drug release from pHEMA-based hydrogels: anin vitrostudy. Journal of Biomaterials Science, Polymer Edition, 2015, 26, 235-251.	1.9	21
56	Nonlinear laser lithography to control surface properties of stainless steel. CIRP Annals - Manufacturing Technology, 2015, 64, 193-196.	1.7	17
57	The effect of albumin and cholesterol on the biotribological behavior of hydrogels for contact lenses. Acta Biomaterialia, 2015, 26, 184-194.	4.1	37
58	Effect of tetracaine on DMPC and DMPC+cholesterol biomembrane models: Liposomes and monolayers. Colloids and Surfaces B: Biointerfaces, 2014, 116, 63-71.	2.5	27
59	Comparison of two hydrogel formulations for drug release in ophthalmic lenses. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2014, 102, 1170-1180.	1.6	39
60	Anesthetics interacting with lipid rafts. European Journal of Pharmaceutical Sciences, 2013, 48, 153-165.	1.9	23
61	Evaluation of the in vitro biocompatibility of PMMA/high-load HA/carbon nanostructures bone cement formulations. Journal of Materials Science: Materials in Medicine, 2013, 24, 2787-2796.	1.7	34
62	Wetting behaviour of femtosecond laser textured Tiâ€“6Alâ€“4V surfaces. Applied Surface Science, 2013, 265, 688-696.	3.1	187
63	Effect of feldspar porcelain coating upon the wear behavior of zirconia dental crowns. Wear, 2013, 297, 872-877.	1.5	28
64	Ultrafast laser texturing of Ti-6Al-4V surfaces for biomedical applications. , 2013, , .		7
65	Controlled adsorption of cytochrome c to nanostructured gold surfaces. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	9
66	Interactions between anesthetics and lipid rafts. , 2012, , .		0
67	Controlled drug release from dental obturation cements. , 2012, , .		0
68	Effect of Albumin Adsorption on Biotribological Properties of Artificial Joint Materials. ACS Symposium Series, 2012, , 497-523.	0.5	4
69	Formation of an intact liposome layer adsorbed on oxidized gold confirmed by three complementary techniques: QCMâ€Ð, AFM and confocal fluorescence microscopy. Surface and Interface Analysis, 2012, 44, 426-433.	0.8	56
70	Interaction of local and general anaesthetics with liposomal membrane models: A QCM-D and DSC study. Colloids and Surfaces B: Biointerfaces, 2012, 95, 65-74.	2.5	32
71	Biomaterials research at NanoLab(IST): Seeding seeds for the future. , 2011, , .		0
72	Interaction between anaesthetics and model biomembrane systems. , 2011, , .		0

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73	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
74	Ageing effects on the wettability behavior of laser textured silicon. Applied Surface Science, 2011, 257, 2604-2609.	3.1	16
75	Adsorption of albumin and sodium hyaluronate on UHMWPE: A QCM-D and AFM study. Colloids and Surfaces B: Biointerfaces, 2010, 78, 1-7.	2.5	50
76	Characterization of two DLC coatings for joint prosthesis: The role of albumin on the tribological behavior. Surface and Coatings Technology, 2010, 204, 3451-3458.	2.2	27
77	Response to â€œComment on: On the stability of bubbles trapped at a solidâ€“liquid interface: A thermodynamical approachâ€•by J. Seddon and H. Zandvliet. Surface Science, 2010, 604, 478-479.	0.8	3
78	High-temperature surface tension and density measurements of 1-alkyl-3-methylimidazolium bistriflamide ionic liquids. Fluid Phase Equilibria, 2010, 294, 131-138.	1.4	145
79	Micro-to-nano triboactivity of hydrogenated DLC films. Journal Physics D: Applied Physics, 2009, 42, 085307.	1.3	14
80	On the stability of bubbles trapped at a solidâ€“liquid interface: A thermodynamical approach. Surface Science, 2009, 603, 2870-2873.	0.8	17
81	A comparative study of titanium nitrides, TiN, TiNbN and TiCN, as coatings for biomedical applications. Surface and Coatings Technology, 2009, 203, 3701-3707.	2.2	182
82	Viscosity and Surface Tension of 1-Ethanol-3-methylimidazolium Tetrafluoroborate and 1-Methyl-3-octylimidazolium Tetrafluoroborate over a Wide Temperature Range. Journal of Chemical & Engineering Data, 2009, 54, 950-955.	1.0	108
83	Bovine serum albumin adsorption onto 316L stainless steel and alumina: a comparative study using depletion, protein radiolabeling, quartz crystal microbalance and atomic force microscopy. Surface and Interface Analysis, 2008, 40, 1529-1537.	0.8	52
84	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
85	Adhesion forces in liquid media: Effect of surface topography and wettability. Journal of Colloid and Interface Science, 2008, 325, 573-579.	5.0	28
86	Tribological behaviour of Cl-implanted TiN coatings for biomedical applications. Wear, 2007, 262, 1337-1345.	1.5	28
87	Wear of ceramic coated metal-on-metal bearings used for hip replacement. Wear, 2007, 263, 1060-1065.	1.5	34
88	An energy-based model for the wear of UHMWPE. Tribology Letters, 2007, 26, 119-124.	1.2	27
89	Diisodecylphthalate (DIDP)â€”a potential standard of moderate viscosity: Surface tension measurements and water content effect on viscosity. Fluid Phase Equilibria, 2006, 245, 1-5.	1.4	22
90	Friction and wear mechanisms in hip prosthesis: Comparison of joint materials behaviour in several lubricants. Wear, 2006, 260, 149-158.	1.5	159

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91	Adsorption of albumin on prosthetic materials: Implication for tribological behavior. Journal of Biomedical Materials Research - Part A, 2006, 78A, 581-589.	2.1	96
92	Influence of Sterilization with Î³-Irradiation in the Degradation of Plasma Sprayed Hydroxyapatite Coatings. Materials Science Forum, 2006, 514-516, 1054-1058.	0.3	3
93	Bovine serum albumin conformational changes upon adsorption on titania and on hydroxyapatite and their relation with biomineralization. Journal of Biomedical Materials Research Part B, 2004, 70A, 420-427.	3.0	64
94	Mineralisation of two phosphate ceramics in HBSS: role of albumin. Biomaterials, 2003, 24, 451-460.	5.7	43
95	Influence of sterilization on the mineralization of titanium implants induced by incubation in various biological model fluids. Biomaterials, 2003, 24, 4749-4760.	5.7	115
96	Mineralisation of two calcium phosphate ceramics in biological model fluids. Journal of Materials Chemistry, 2003, 13, 1484-1490.	6.7	26
97	In vitromineralization of a glass-ceramic of the MgO-3CaO Â· P2O5-SiO2system: Wettability studies. Journal of Biomedical Materials Research Part B, 2002, 61, 99-108.	3.0	12
98	Effect of chemical composition on hydrophobicity and zeta potential of plasma sprayed HA/CaOâ€“P2O5 glass coatings. Biomaterials, 2001, 22, 3105-3112.	5.7	41
99	Calcium phosphate deposition on titanium surfaces in the presence of fibronectin. , 2000, 49, 345-352.		46
100	Effects of ionic surfactants used in reversed micelles on cutinase activity and stability. BBA - Proteins and Proteomics, 2000, 1480, 92-106.	2.1	28
101	Hydrophobicity, surface tension, and zeta potential measurements of glass-reinforced hydroxyapatite composites. , 1999, 45, 370-375.		112
102	Dynamic interfacial behaviour of bovine serum albumin solutions on titanium surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1997, 125, 209-219.	2.3	20
103	The influence of proteins on calcium phosphate deposition over titanium implants studied by dynamic contact angle analysis and XPS. Colloids and Surfaces B: Biointerfaces, 1997, 10, 95-104.	2.5	19
104	Apatite deposition on titanium surfaces â€" the role of albumin adsorption. Biomaterials, 1997, 18, 963-968.	5.7	111
105	Wettability and Nanotribological Response of Silicon Surfaces Functionalized by Ion Implantation. Materials Science Forum, 0, 730-732, 257-262.	0.3	1