

Martins Mcl

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

3,542
citations

136885

32
h-index

149623

56
g-index

91
all docs

91
docs citations

91
times ranked

5157
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Grafting MSI-78A onto chitosan microspheres enhances its antimicrobial activity. <i>Acta Biomaterialia</i> , 2022, 137, 186-198. | 4.1 | 11 |
| 2 | Antimicrobial peptide-based materials: opportunities and challenges. <i>Journal of Materials Chemistry B</i> , 2022, 10, 2384-2429. | 2.9 | 47 |
| 3 | Targeting and killing the Ever-Challenging ulcer bug. <i>International Journal of Pharmaceutics</i> , 2022, 617, 121582. | 2.6 | 1 |
| 4 | Thiolâ€“Norbornene Photoclick Chemistry for Grafting Antimicrobial Peptides onto Chitosan to Create Antibacterial Biomaterials. <i>ACS Applied Polymer Materials</i> , 2022, 4, 5012-5026. | 2.0 | 9 |
| 5 | <i>Helicobacter pylori</i> biofilms are disrupted by nanostructured lipid carriers: A path to eradication?. <i>Journal of Controlled Release</i> , 2022, 348, 489-498. | 4.8 | 7 |
| 6 | Graphene-based materials: the key for the successful application of pHEMA as a blood-contacting device. <i>Biomaterials Science</i> , 2021, 9, 3362-3377. | 2.6 | 14 |
| 7 | Graphene Oxide Coating Improves the Mechanical and Biological Properties of Decellularized Umbilical Cord Arteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 32662-32672. | 4.0 | 10 |
| 8 | <i>N</i> -Acetyl-cysteine-Loaded Nanosystems as a Promising Therapeutic Approach Toward the Eradication of <i>Pseudomonas aeruginosa</i> Biofilms. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 42329-42343. | 4.0 | 8 |
| 9 | The biophysics of bacterial infections: Adhesion events in the light of force spectroscopy. <i>Cell Surface</i> , 2021, 7, 100048. | 1.5 | 6 |
| 10 | Antimicrobial Peptides in the Battle against Orthopedic Implant-Related Infections: A Review. <i>Pharmaceutics</i> , 2021, 13, 1918. | 2.0 | 16 |
| 11 | Disclosure of a Promising Lead to Tackle Complicated Skin and Skin Structure Infections: Antimicrobial and Antibiofilm Actions of Peptide PP4-3.1. <i>Pharmaceutics</i> , 2021, 13, 1962. | 2.0 | 5 |
| 12 | AMPâ€“Chitosan Coating with Bactericidal Activity in the Presence of Human Plasma Proteins. <i>Molecules</i> , 2020, 25, 3046. | 1.7 | 13 |
| 13 | Natural Cyanobacterial Polymer-Based Coating as a Preventive Strategy to Avoid Catheter-Associated Urinary Tract Infections. <i>Marine Drugs</i> , 2020, 18, 279. | 2.2 | 18 |
| 14 | Orally administrated chitosan microspheres bind <i>Helicobacter pylori</i> and decrease gastric infection in mice. <i>Acta Biomaterialia</i> , 2020, 114, 206-220. | 4.1 | 19 |
| 15 | Effect of surface chemistry on hMSC growth under xeno-free conditions. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 189, 110836. | 2.5 | 6 |
| 16 | Only a â€œClickâ€•Away: Development of Arginine-Rich Peptide-Based Materials Using Click Chemistry. <i>Springer Protocols</i> , 2020, , 37-51. | 0.1 | 0 |
| 17 | Prevention of urinary catheter-associated infections by coating antimicrobial peptides from crowberry endophytes. <i>Scientific Reports</i> , 2019, 9, 10753. | 1.6 | 51 |
| 18 | Graphene oxide-reinforced poly(2-hydroxyethyl methacrylate) hydrogels with extreme stiffness and high-strength. <i>Composites Science and Technology</i> , 2019, 184, 107819. | 3.8 | 26 |

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|----|--|-----|-----------|
| 19 | Impact of nanosystems in <i>Staphylococcus aureus</i> biofilms treatment. FEMS Microbiology Reviews, 2019, 43, 622-641. | 3.9 | 64 |
| 20 | The blood compatibility challenge. Part 4: Surface modification for hemocompatible materials: Passive and active approaches to guide blood-material interactions. Acta Biomaterialia, 2019, 94, 33-43. | 4.1 | 78 |
| 21 | Broad-Spectrum Anti-Adhesive Coating Based on an Extracellular Polymer from a Marine Cyanobacterium. Marine Drugs, 2019, 17, 243. | 2.2 | 16 |
| 22 | Clinical Application of AMPs. Advances in Experimental Medicine and Biology, 2019, 1117, 281-298. | 0.8 | 78 |
| 23 | Surface Grafted MSI-78A Antimicrobial Peptide has High Potential for Gastric Infection Management. Scientific Reports, 2019, 9, 18212. | 1.6 | 21 |
| 24 | Antimicrobial coatings prepared from Dhvar-5-click-grafted chitosan powders. Acta Biomaterialia, 2019, 84, 242-256. | 4.1 | 46 |
| 25 | An affinity-based approach to engineer laminin-presenting cell instructive microenvironments. Biomaterials, 2019, 192, 601-611. | 5.7 | 12 |
| 26 | Lipid nanoparticles to counteract gastric infection without affecting gut microbiota. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 127, 378-386. | 2.0 | 31 |
| 27 | Optimization of the use of a pharmaceutical grade xeno-free medium for in vitro expansion of human mesenchymal stem/stromal cells. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, e1785-e1795. | 1.3 | 13 |
| 28 | Cecropin-Melittin Functionalized Polyurethane Surfaces Prevent <i>Staphylococcus epidermidis</i> Adhesion without Inducing Platelet Adhesion and Activation. Advanced Materials Interfaces, 2018, 5, 1801390. | 1.9 | 14 |
| 29 | Nonantibiotic-Based Therapeutics Targeting Helicobacter pylori: From Nature to the Lab. , 2018, , . | | 1 |
| 30 | Self-Assembled Monolayers for Dental Implants. International Journal of Dentistry, 2018, 2018, 1-21. | 0.5 | 16 |
| 31 | Conjugation Chemistry Principles and Surface Functionalization of Nanomaterials. , 2018, , 35-66. | | 6 |
| 32 | Docosahexaenoic acid loaded lipid nanoparticles with bactericidal activity against Helicobacter pylori. International Journal of Pharmaceutics, 2017, 519, 128-137. | 2.6 | 47 |
| 33 | Tethering antimicrobial peptides onto chitosan: Optimization of azide-alkyne click-reaction conditions. Carbohydrate Polymers, 2017, 165, 384-393. | 5.1 | 55 |
| 34 | Eucalyptus spp. outer bark extracts inhibit Helicobacter pylori growth: in vitro studies. Industrial Crops and Products, 2017, 105, 207-214. | 2.5 | 13 |
| 35 | Adsorbed Fibrinogen stimulates TLR-4 on monocytes and induces BMP-2 expression. Acta Biomaterialia, 2017, 49, 296-305. | 4.1 | 22 |
| 36 | Stiffness of polyelectrolyte multilayer film influences endothelial function of endothelial cell monolayer. Colloids and Surfaces B: Biointerfaces, 2017, 149, 379-387. | 2.5 | 26 |

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|----|--|-----|-----------|
| 37 | N-acetylcysteine-functionalized coating avoids bacterial adhesion and biofilm formation. <i>Scientific Reports</i> , 2017, 7, 17374. | 1.6 | 50 |
| 38 | Xeno-Free Strategies for Safe Human Mesenchymal Stem/Stromal Cell Expansion: Supplements and Coatings. <i>Stem Cells International</i> , 2017, 2017, 1-13. | 1.2 | 62 |
| 39 | Helicobacter pylori infection: A brief overview on alternative natural treatments to conventional therapy. <i>Critical Reviews in Microbiology</i> , 2016, 42, 94-105. | 2.7 | 24 |
| 40 | A high-throughput bioimaging study to assess the impact of chitosan-based nanoparticle degradation on DNA delivery performance. <i>Acta Biomaterialia</i> , 2016, 46, 129-140. | 4.1 | 9 |
| 41 | Aptamer-based fiber sensor for thrombin detection. <i>Journal of Biomedical Optics</i> , 2016, 21, 087005. | 1.4 | 35 |
| 42 | Bacteria-targeted biomaterials: Glycan-coated microspheres to bind Helicobacter pylori. <i>Acta Biomaterialia</i> , 2016, 33, 40-50. | 4.1 | 15 |
| 43 | Self-Healing Spongy Coating for Drug "Cocktail" Delivery. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4309-4313. | 4.0 | 39 |
| 44 | Grafting Techniques towards Production of Peptide-Tethered Hydrogels, a Novel Class of Materials with Biomedical Interest. <i>Gels</i> , 2015, 1, 194-218. | 2.1 | 14 |
| 45 | Antimicrobial properties of membrane-active dodecapeptides derived from MSI-78. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 1139-1146. | 1.4 | 25 |
| 46 | A 17-mer Membrane-Active MSI-78 Derivative with Improved Selectivity toward Bacterial Cells. <i>Molecular Pharmaceutics</i> , 2015, 12, 2904-2911. | 2.3 | 22 |
| 47 | Dhvar5 antimicrobial peptide (AMP) chemoselective covalent immobilization results on higher antiadherence effect than simple physical adsorption. <i>Biomaterials</i> , 2015, 52, 531-538. | 5.7 | 76 |
| 48 | Effect of Polyelectrolyte Film Stiffness on Endothelial Cells During Endothelial-to-Mesenchymal Transition. <i>Biomacromolecules</i> , 2015, 16, 3584-3593. | 2.6 | 57 |
| 49 | Dynamic stiffness of polyelectrolyte multilayer films based on disulfide bonds for in situ control of cell adhesion. <i>Journal of Materials Chemistry B</i> , 2015, 3, 7546-7553. | 2.9 | 31 |
| 50 | The potential utility of chitosan micro/nanoparticles in the treatment of gastric infection. <i>Expert Review of Anti-Infective Therapy</i> , 2014, 12, 981-992. | 2.0 | 49 |
| 51 | Self-referenced label free biosensors based on differential fiber optic interferometry. , 2014, , . | | 0 |
| 52 | DNA-Aptamer optical biosensors based on a LPG-SPR optical fiber platform for point-of-care diagnostic. <i>Proceedings of SPIE</i> , 2014, , . | 0.8 | 1 |
| 53 | Characterization of hLF1"11 immobilization onto chitosan ultrathin films, and its effects on antimicrobial activity. <i>Acta Biomaterialia</i> , 2014, 10, 3513-3521. | 4.1 | 75 |
| 54 | Atomic force microscopy measurements reveal multiple bonds between Helicobacter pylori blood group antigen binding adhesin and Lewis b ligand. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20141040. | 1.5 | 14 |

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|----|---|-----|-----------|
| 55 | Eradication of <i>Helicobacter pylori</i> : Past, present and future. <i>Journal of Controlled Release</i> , 2014, 189, 169-186. | 4.8 | 83 |
| 56 | Selective albumin-binding surfaces modified with a thrombin-inhibiting peptide. <i>Acta Biomaterialia</i> , 2014, 10, 1227-1237. | 4.1 | 8 |
| 57 | Modulation of stability and mucoadhesive properties of chitosan microspheres for therapeutic gastric application. <i>International Journal of Pharmaceutics</i> , 2013, 454, 116-124. | 2.6 | 53 |
| 58 | Bioengineered surfaces promote specific protein-glycan mediated binding of the gastric pathogen <i>Helicobacter pylori</i> . <i>Acta Biomaterialia</i> , 2013, 9, 8885-8893. | 4.1 | 19 |
| 59 | Adsorbed fibrinogen leads to improved bone regeneration and correlates with differences in the systemic immune response. <i>Acta Biomaterialia</i> , 2013, 9, 7209-7217. | 4.1 | 46 |
| 60 | Bacterial-binding chitosan microspheres for gastric infection treatment and prevention. <i>Acta Biomaterialia</i> , 2013, 9, 9370-9378. | 4.1 | 29 |
| 61 | Effect of gastric environment on <i>Helicobacter pylori</i> adhesion to a mucoadhesive polymer. <i>Acta Biomaterialia</i> , 2013, 9, 5208-5215. | 4.1 | 37 |
| 62 | The effect of octadecyl chain immobilization on the hemocompatibility of poly (2-hydroxyethyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46 | 3.7 | 18 |
| 63 | Bioengineered surfaces to improve the blood compatibility of biomaterials through direct thrombin inactivation. <i>Acta Biomaterialia</i> , 2012, 8, 4101-4110. | 4.1 | 20 |
| 64 | Protein Adsorption Characterization. <i>Methods in Molecular Biology</i> , 2012, 811, 141-161. | 0.4 | 16 |
| 65 | Synthesis of an O-alkynyl-chitosan and its chemoselective conjugation with a PEG-like amino-azide through click chemistry. <i>Carbohydrate Polymers</i> , 2012, 87, 240-249. | 5.1 | 83 |
| 66 | Platelet and leukocyte adhesion to albumin binding self-assembled monolayers. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 2053-2063. | 1.7 | 20 |
| 67 | Covalent immobilization of antimicrobial peptides (AMPs) onto biomaterial surfaces. <i>Acta Biomaterialia</i> , 2011, 7, 1431-1440. | 4.1 | 510 |
| 68 | Interactions of leukocytes and platelets with poly(lysine/leucine) immobilized on tetraethylene glycol-terminated self-assembled monolayers. <i>Acta Biomaterialia</i> , 2011, 7, 1949-1955. | 4.1 | 10 |
| 69 | Effect of surface chemistry on bacterial adhesion, viability, and morphology. <i>Journal of Biomedical Materials Research - Part A</i> , 2011, 99A, 344-353. | 2.1 | 49 |
| 70 | Adhesion of human leukocytes on mixtures of hydroxyl- and methyl-terminated self-assembled monolayers: Effect of blood protein adsorption. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 93A, 12-19. | 2.1 | 11 |
| 71 | The effect of immobilization of thrombin inhibitors onto self-assembled monolayers on the adsorption and activity of thrombin. <i>Biomaterials</i> , 2010, 31, 3772-3780. | 5.7 | 28 |
| 72 | 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 |

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|----|--|-----|-----------|
| 73 | Targeted gene delivery into peripheral sensorial neurons mediated by self-assembled vectors composed of poly(ethylene imine) and tetanus toxin fragment c. <i>Journal of Controlled Release</i> , 2010, 143, 350-358. | 4.8 | 41 |
| 74 | Bioactivity of immobilized EGF on self-assembled monolayers: Optimization of the immobilization process. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 94A, 576-585. | 2.1 | 14 |
| 75 | The stability of self-assembled monolayers with time and under biological conditions. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 94A, 833-843. | 2.1 | 16 |
| 76 | Chitosan-based gene delivery vectors targeted to the peripheral nervous system. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 95A, 801-810. | 2.1 | 25 |
| 77 | Molecularly designed surfaces for blood deheparinization using an immobilized heparin-binding peptide. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 88A, 162-173. | 2.1 | 28 |
| 78 | Selective protein adsorption modulates platelet adhesion and activation to oligo(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 Td <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 89A, 642-653. | 2.1 | 22 |
| 79 | Protein adsorption and clotting time of pHEMA hydrogels modified with C18 ligands to adsorb albumin selectively and reversibly. <i>Biomaterials</i> , 2009, 30, 5541-5551. | 5.7 | 32 |
| 80 | The correlation between the adsorption of adhesive proteins and cell behaviour on hydroxyl-methyl mixed self-assembled monolayers. <i>Biomaterials</i> , 2009, 30, 307-316. | 5.7 | 147 |
| 81 | Induction of notch signaling by immobilization of jagged-1 on self-assembled monolayers. <i>Biomaterials</i> , 2009, 30, 6879-6887. | 5.7 | 29 |
| 82 | The N-terminal Half of the Peroxisomal Cycling Receptor Pex5p is a Natively Unfolded Domain. <i>Journal of Molecular Biology</i> , 2006, 356, 864-875. | 2.0 | 76 |
| 83 | Fibrinogen adsorption, platelet adhesion and activation on mixed hydroxyl-/methyl-terminated self-assembled monolayers. <i>Biomaterials</i> , 2006, 27, 5357-5367. | 5.7 | 217 |
| 84 | 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 |
| 85 | Improving the adhesion of poly(ethylene terephthalate) fibers to poly(hydroxyethyl methacrylate) hydrogels by ozone treatment: Surface characterization and pull-out tests. <i>Polymer</i> , 2005, 46, 9840-9850. | 1.8 | 30 |
| 86 | Adsorption of a therapeutic enzyme to self-assembled monolayers: effect of surface chemistry and solution pH on the amount and activity of adsorbed enzyme. <i>Biomaterials</i> , 2005, 26, 2695-2704. | 5.7 | 33 |
| 87 | Protein adsorption on 18-alkyl chains immobilized on hydroxyl-terminated self-assembled monolayers. <i>Biomaterials</i> , 2005, 26, 3891-3899. | 5.7 | 38 |
| 88 | Albumin adsorption on cibacron blue F3G-A immobilized onto oligo(ethylene glycol)-terminated self-assembled monolayers. <i>Journal of Materials Science: Materials in Medicine</i> , 2003, 14, 945-954. | 1.7 | 29 |
| 89 | Albumin and fibrinogen adsorption on PU-PHEMA surfaces. <i>Biomaterials</i> , 2003, 24, 2067-2076. | 5.7 | 110 |
| 90 | Albumin adsorption on alkanethiols self-assembled monolayers on gold electrodes studied by chronopotentiometry. <i>Biomaterials</i> , 2003, 24, 3697-3706. | 5.7 | 47 |

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| 91 | Albumin and fibrinogen adsorption on Cibacron blue F3G-A immobilised onto PU-PHEMA (polyurethane-poly(hydroxyethylmethacrylate)) surfaces. Journal of Biomaterials Science, Polymer Edition, 2003, 14, 439-455. | 1.9 | 21 |