

# Margarida M Fernandes

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

2,231  
citations

279701

23  
h-index

223716

46  
g-index

58  
all docs

58  
docs citations

58  
times ranked

3213  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Fluorinated Polymers as Smart Materials for Advanced Biomedical Applications. <i>Polymers</i> , 2018, 10, 161.  | 2.0 | 196       |
| 2  | Sonochemical Coating of Textiles with Hybrid ZnO/Chitosan Antimicrobial Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 1164-1172.  | 4.0 | 194       |
| 3  | Biopolymers in Medical Implants: A Brief Review. <i>Procedia Engineering</i> , 2017, 200, 236-243.  | 1.2 | 177       |
| 4  | Quorum-Quenching and Matrix-Degrading Enzymes in Multilayer Coatings Synergistically Prevent Bacterial Biofilm Formation on Urinary Catheters. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 27066-27077.                  | 4.0 | 128       |
| 5  | Size and Aging Effects on Antimicrobial Efficiency of Silver Nanoparticles Coated on Polyamide Fabrics Activated by Atmospheric DBD Plasma. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 13731-13744.                     | 4.0 | 103       |
| 6  | Bioinspired Three-Dimensional Magnetoactive Scaffolds for Bone Tissue Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 45265-45275.   | 4.0 | 101       |
| 7  | Photocatalytic and antimicrobial multifunctional nanocomposite membranes for emerging pollutants water treatment applications. <i>Chemosphere</i> , 2020, 250, 126299.  | 4.2 | 95        |
| 8  | Enzyme multilayer coatings inhibit <i>Pseudomonas aeruginosa</i> biofilm formation on urinary catheters. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 4373-4385.   | 1.7 | 92        |
| 9  | Electrospinning of gelatin fibers using solutions with low acetic acid concentration: Effect of solvent composition on both diameter of electrospun fibers and cytotoxicity. <i>Journal of Applied Polymer Science</i> , 2015, 132, . | 1.3 | 90        |
| 10 | Bacteria-responsive multilayer coatings comprising polycationic nanospheres for bacteria biofilm prevention on urinary catheters. <i>Acta Biomaterialia</i> , 2016, 33, 203-212.  | 4.1 | 84        |
| 11 | Chitosan- $\alpha$ -lignosulfonates sono-chemically prepared nanoparticles: Characterisation and potential applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 103, 1-8.  | 2.5 | 81        |
| 12 | Nanotransformation of Vancomycin Overcomes the Intrinsic Resistance of Gram-Negative Bacteria. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 15022-15030.  | 4.0 | 53        |
| 13 | Tannic acid NPs – Synthesis and immobilization onto a solid surface in a one-step process and their antibacterial and anti-inflammatory properties. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 1916-1920.                           | 3.8 | 52        |
| 14 | Ionic Liquid-Based Materials for Biomedical Applications. <i>Nanomaterials</i> , 2021, 11, 2401.  | 1.9 | 52        |
| 15 | Tailoring Bacteria Response by Piezoelectric Stimulation. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 27297-27305.  | 4.0 | 51        |
| 16 | Keratins and lipids in ethnic hair. <i>International Journal of Cosmetic Science</i> , 2013, 35, 244-249.   | 1.2 | 47        |
| 17 | Sonochemically Processed Cationic Nanocapsules: Efficient Antimicrobials with Membrane Disturbing Capacity. <i>Biomacromolecules</i> , 2014, 15, 1365-1374.   | 2.6 | 46        |
| 18 | Effect of thiol-functionalisation on chitosan antibacterial activity: Interaction with a bacterial membrane model. <i>Reactive and Functional Polymers</i> , 2013, 73, 1384-1390.   | 2.0 | 41        |

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|----|--|-----|-----------|
| 19 | Bottom-up Layer-by-Layer Assembling of Antibacterial Freestanding Nanobiocomposite Films. <i>Biomacromolecules</i> , 2018, 19, 3628-3636.  | 2.6 | 29        |
| 20 | Physically Active Bioreactors for Tissue Engineering Applications. <i>Advanced Biology</i> , 2020, 4, e2000125.  | 3.0 | 29        |
| 21 | Protein disulphide isomerase-mediated grafting of cysteine-containing peptides onto over-bleached hair. <i>Biocatalysis and Biotransformation</i> , 2012, 30, 10-19.                             | 1.1 | 26        |
| 22 | Piezo- and Magnetoelectric Polymers as Biomaterials for Novel Tissue Engineering Strategies. <i>MRS Advances</i> , 2018, 3, 1671-1676.   | 0.5 | 26        |
| 23 | <i>Escherichia coli</i> and <i>Pseudomonas aeruginosa</i> eradication by nano-penicillin G. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 2061-2069.                    | 1.7 | 24        |
| 24 | Silk fibroin magnetoactive nanocomposite films and membranes for dynamic bone tissue engineering strategies. <i>Materialia</i> , 2020, 12, 100709.   | 1.3 | 24        |
| 25 | New Textile for Personal Protective Equipment—Plasma Chitosan/Silver Nanoparticles Nylon Fabric. <i>Fibers</i> , 2021, 9, 3.   | 1.8 | 24        |
| 26 | Keratin-based peptide: biological evaluation and strengthening properties on relaxed hair. <i>International Journal of Cosmetic Science</i> , 2012, 34, 338-346.                                 | 1.2 | 21        |
| 27 | Hollow Polypropylene Yarns as a Biomimetic Brain Phantom for the Validation of High-Definition Fiber Tractography Imaging. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 29960-29967. | 4.0 | 21        |
| 28 | Comfort and Infection Control of Chitosan-impregnated Cotton Gauze as Wound Dressing. <i>Fibers and Polymers</i> , 2019, 20, 922-932.  | 1.1 | 21        |
| 29 | Magnetic Bioreactor for Magneto-, Mechano- and Electroactive Tissue Engineering Strategies. <i>Sensors</i> , 2020, 20, 3340.   | 2.1 | 21        |
| 30 | Sonochemical synthesis and stabilization of concentrated antimicrobial silver-chitosan nanoparticle dispersions. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45136.                   | 1.3 | 20        |
| 31 | Electroactive Smart Materials: Novel Tools for Tailoring Bacteria Behavior and Fight Antimicrobial Resistance. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 277.              | 2.0 | 20        |
| 32 | Magnetoelectric Polymer-Based Nanocomposites with Magnetically Controlled Antimicrobial Activity. <i>ACS Applied Bio Materials</i> , 2021, 4, 559-570.   | 2.3 | 20        |
| 33 | One-step sonochemical preparation of redox-responsive nanocapsules for glutathione mediated RNA release. <i>Journal of Materials Chemistry B</i> , 2014, 2, 6020-6029.                           | 2.9 | 19        |
| 34 | Multifunctional magnetically responsive biocomposites based on genetically engineered silk-elastin-like protein. <i>Composites Part B: Engineering</i> , 2018, 153, 413-419.                     | 5.9 | 17        |
| 35 | Biocompounds from rapeseed oil industry co-stream as active ingredients for skin care applications. <i>International Journal of Cosmetic Science</i> , 2015, 37, 496-505.                        | 1.2 | 16        |
| 36 | Immobilization of antimicrobial core-shell nanospheres onto silicone for prevention of <i>Escherichia coli</i> biofilm formation. <i>Process Biochemistry</i> , 2017, 59, 116-122.               | 1.8 | 15        |

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|----|---|-----|-----------|
| 37 | Improving Magnetolectric Contactless Sensing and Actuation through Anisotropic Nanostructures. <i>Journal of Physical Chemistry C</i> , 2018, 122, 19189-19196.   | 1.5 | 15        |
| 38 | Molecular modeling of hair keratin/peptide complex: Using MMâ€PBSA calculations to describe experimental binding results. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012, 80, 1409-1417.              | 1.5 | 13        |
| 39 | Biology of Human Hair: Know Your Hair to Control It. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2010, 125, 121-143.   | 0.6 | 12        |
| 40 | Selective Antimicrobial Performance of Biosynthesized Silver Nanoparticles by Horsetail Extract Against <i>E. coli</i> . <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 2598-2607. | 1.9 | 12        |
| 41 | Protein disulphide isomerase-assisted functionalization of keratin-based matrices. <i>Applied Microbiology and Biotechnology</i> , 2011, 90, 1311-1321.   | 1.7 | 11        |
| 42 | Tuning Properties of Cerium Dioxide Nanoparticles by Surface Modification with Catecholate-type of Ligands. <i>Langmuir</i> , 2020, 36, 9738-9746.  | 1.6 | 11        |
| 43 | Exploring electroactive microenvironments in polymer-based nanocomposites to sensitize bacterial cells to low-dose embedded silver nanoparticles. <i>Acta Biomaterialia</i> , 2022, 139, 237-248.                     | 4.1 | 11        |
| 44 | Antimicrobial and Antibiofilm Properties of Fluorinated Polymers with Embedded Functionalized Nanodiamonds. <i>ACS Applied Polymer Materials</i> , 2020, 2, 5014-5024.  | 2.0 | 11        |
| 45 | Influence of glucose, sucrose, and dextran coatings on the stability and toxicity of silver nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2022, 194, 461-469.                            | 3.6 | 10        |
| 46 | Bio/sonochemical conversion of fish backbones into bioactive nanospheres. <i>Process Biochemistry</i> , 2015, 50, 1843-1851.  | 1.8 | 9         |
| 47 | The influence of cork on the thermal insulation properties of home textiles. <i>Procedia Engineering</i> , 2017, 200, 252-259.  | 1.2 | 8         |
| 48 | Aging Effect on Functionalized Silver-Based Nanocoating Braided Coronary Stents. <i>Coatings</i> , 2020, 10, 1234.  | 1.2 | 5         |
| 49 | Protein disulphide isomerase-assisted functionalization of proteinaceous substrates. <i>Biocatalysis and Biotransformation</i> , 2012, 30, 111-124.   | 1.1 | 4         |
| 50 | Coated chitosan onto gauze to efficient conditions for maintenance of the wound microenvironment. <i>Procedia Engineering</i> , 2017, 200, 135-140.   | 1.2 | 4         |
| 51 | Multifunctional Touch Sensing and Antibacterial Polymerâ€Based Coreâ€Shell Metallic Nanowire Composites for High Traffic Surfaces. <i>Advanced Materials Technologies</i> , 2022, 7, .                                | 3.0 | 4         |
| 52 | Protein disulphide isomerase-induced refolding of sonochemically prepared Ribonuclease A microspheres. <i>Journal of Biotechnology</i> , 2012, 159, 78-82.  | 1.9 | 3         |
| 53 | Strategies for Silencing Bacterial Communication. , 2015, , 197-216.  |     | 3         |
| 54 | Polymers in Wound Repair. , 2015, , 401-431.  |     | 3         |

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|----|--|-----|-----------|
| 55 | Multidimensional Biomechanics Approaches Through Electrically and Magnetically Active Microenvironments. , 2019, , 253-267.  |     | 3         |
| 56 | Flexible TiCu <sub>x</sub> Thin Films with Dual Antimicrobial and Piezoresistive Characteristics. ACS Applied Bio Materials, 2022, 5, 1267-1272.                       | 2.3 | 3         |
| 57 | Exploring Electroactive Microenvironments in Polymer-Based Nanocomposites to Sensitize Bacterial Cells to Low Doses of Antimicrobials. SSRN Electronic Journal, 0, , . | 0.4 | 0         |
| 58 | Silk Fibroin Magnetoactive Nanocomposite Films and Membranes for Dynamic Bone Tissue Engineering Strategies. SSRN Electronic Journal, 0, , .                           | 0.4 | 0         |