

# Anna Maria Piras

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

2,571  
citations

218592

26  
h-index

189801

50  
g-index

64  
all docs

64  
docs citations

64  
times ranked

4106  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Polymeric materials for bone and cartilage repair. <i>Progress in Polymer Science</i> , 2010, 35, 403-440.   | 11.8 | 788       |
| 2  | Chitosan nanoparticles loaded with the antimicrobial peptide temporin B exert a long-term antibacterial activity in vitro against clinical isolates of <i>Staphylococcus epidermidis</i> . <i>Frontiers in Microbiology</i> , 2015, 06, 372. | 1.5  | 146       |
| 3  | Cell membrane coated nanocarriers - an efficient biomimetic platform for targeted therapy. <i>Journal of Controlled Release</i> , 2020, 327, 546-570.  | 4.8  | 121       |
| 4  | Poly(lactic-co-glycolic acid) electrospun fibrous meshes for the controlled release of retinoic acid. <i>Acta Biomaterialia</i> , 2010, 6, 1258-1268.  | 4.1  | 95        |
| 5  | Fibrin acts as biomimetic niche inducing both differentiation and stem cell marker expression of early human endothelial progenitor cells. <i>Cell Proliferation</i> , 2011, 44, 33-48.  | 2.4  | 86        |
| 6  | Micro/nanostructured polymeric systems for biomedical and pharmaceutical applications. <i>Nanomedicine</i> , 2008, 3, 367-393.   | 1.7  | 81        |
| 7  | Optimized electro- and wet-spinning techniques for the production of polymeric fibrous scaffolds loaded with bisphosphonate and hydroxyapatite. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2011, 5, 253-263.           | 1.3  | 77        |
| 8  | Biodegradable Nanomats Produced by Electrospinning: Expanding Multifunctionality and Potential for Tissue Engineering. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 862-882.  | 0.9  | 71        |
| 9  | Novel Agmatine-Containing Poly(amidoamine) Hydrogels as Scaffolds for Tissue Engineering. <i>Biomacromolecules</i> , 2005, 6, 2229-2235.   | 2.6  | 70        |
| 10 | Preparation, physical, chemical and biological characterization of chitosan nanoparticles loaded with lysozyme. <i>International Journal of Biological Macromolecules</i> , 2014, 67, 124-131.   | 3.6  | 59        |
| 11 | Polymeric nanoparticles for hemoglobin-based oxygen carriers. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2008, 1784, 1454-1461.  | 1.1  | 47        |
| 12 | A new biocompatible nanoparticle delivery system for the release of fibrinolytic drugs. <i>International Journal of Pharmaceutics</i> , 2008, 357, 260-271.  | 2.6  | 46        |
| 13 | Perspectives on polymeric nanostructures for the therapeutic application of antimicrobial peptides. <i>Nanomedicine</i> , 2016, 11, 1729-1744.   | 1.7  | 44        |
| 14 | New Multicomponent Bioerodible Electrospun Nanofibers for Dual-controlled Drug Release. <i>Journal of Bioactive and Compatible Polymers</i> , 2008, 23, 423-443.   | 0.8  | 43        |
| 15 | Biodegradable Nanomats Produced by Electrospinning: Expanding Multifunctionality and Potential for Tissue Engineering. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 2693-2711.  | 0.9  | 42        |
| 16 | Development of Electrospun Three-Arm Star Poly( $\epsilon$ -caprolactone) Meshes for Tissue Engineering Applications. <i>Macromolecular Bioscience</i> , 2010, 10, 887-897.  | 2.1  | 41        |
| 17 | Levofloxacin-loaded star poly( $\epsilon$ -caprolactone) scaffolds by additive manufacturing. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 44.   | 1.7  | 39        |
| 18 | Development of Diclofenac Sodium Releasing Bio-Erodible Polymeric Nanomats. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 3310-3320.   | 0.9  | 37        |

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|----|---|-----|-----------|
| 19 | Antibacterial, Antibiofilm, and Antiadhesive Properties of Different Quaternized Chitosan Derivatives. <i>International Journal of Molecular Sciences</i> , 2019, 20, 6297.   | 1.8 | 37        |
| 20 | Impact of mucoadhesive polymeric nanoparticulate systems on oral bioavailability of a macromolecular model drug. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 130, 281-289.                          | 2.0 | 35        |
| 21 | Quaternary Ammonium Chitosans: The Importance of the Positive Fixed Charge of the Drug Delivery Systems. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6617.   | 1.8 | 34        |
| 22 | Modelling of pancreatic ductal adenocarcinoma in vitro with three-dimensional microstructured hydrogels. <i>RSC Advances</i> , 2016, 6, 54226-54235.  | 1.7 | 33        |
| 23 | Chitosan Nanoparticles for the Linear Release of Model Cationic Peptide. <i>Pharmaceutical Research</i> , 2015, 32, 2259-2265.  | 1.7 | 32        |
| 24 | Chitosan-Based Nanoparticles Containing Cherry Extract from <i>Prunus avium</i> L. to Improve the Resistance of Endothelial Cells to Oxidative Stress. <i>Nutrients</i> , 2018, 10, 1598.                                     | 1.7 | 29        |
| 25 | A water-soluble, mucoadhesive quaternary ammonium chitosan-methyl- $\beta$ -cyclodextrin conjugate forming inclusion complexes with dexamethasone. <i>Journal of Materials Science: Materials in Medicine</i> , 2018, 29, 42. | 1.7 | 26        |
| 26 | Impact of Different Mucoadhesive Polymeric Nanoparticles Loaded in Thermosensitive Hydrogels on Transcorneal Administration of 5-Fluorouracil. <i>Pharmaceutics</i> , 2019, 11, 623.  | 2.0 | 25        |
| 27 | Endothelial progenitor cell secretome delivered by novel polymeric nanoparticles in ischemic hindlimb. <i>International Journal of Pharmaceutics</i> , 2018, 542, 82-89.  | 2.6 | 23        |
| 28 | Bioeliminable polymeric nanoparticles for proteic drug delivery. <i>International Journal of Pharmaceutics</i> , 2007, 343, 90-97.  | 2.6 | 22        |
| 29 | Thiolated Hydroxypropyl- $\beta$ -cyclodextrin: A Potential Multifunctional Excipient for Ocular Drug Delivery. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2612.  | 1.8 | 22        |
| 30 | Hemoglobin loaded polymeric nanoparticles: Preparation and characterizations. <i>European Journal of Pharmaceutical Sciences</i> , 2011, 43, 57-64.   | 1.9 | 20        |
| 31 | Methyl- $\beta$ -cyclodextrin quaternary ammonium chitosan conjugate: nanoparticles vs macromolecular soluble complex. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 2531-2541.                             | 3.3 | 19        |
| 32 | Bioactive Polymeric Materials for Targeted Administration of Active Agents: Synthesis and Evaluation. <i>Macromolecular Bioscience</i> , 2008, 8, 516-525.  | 2.1 | 18        |
| 33 | Anti-Inflammatory Effect of Cherry Extract Loaded in Polymeric Nanoparticles: Relevance of Particle Internalization in Endothelial Cells. <i>Pharmaceutics</i> , 2019, 11, 500.   | 2.0 | 18        |
| 34 | Antioxidant Effect of Cocoa By-Product and Cherry Polyphenol Extracts: A Comparative Study. <i>Antioxidants</i> , 2020, 9, 132.   | 2.2 | 16        |
| 35 | Statistical approach to the spectroscopic determination of the deacetylation degree of chitins and chitosans. <i>Carbohydrate Polymers</i> , 2011, 86, 65-71.   | 5.1 | 13        |
| 36 | 2-Methoxy Aniline Grafted Poly(maleic anhydride- <i>alt</i> -butyl vinyl ether) Hemiester: A New Biocompatible Polymeric Free Radical Scavenger. <i>Macromolecules</i> , 2011, 44, 848-856.                                   | 2.2 | 12        |

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|----|--|-----|-----------|
| 37 | MR imaging and targeting of human breast cancer cells with folate decorated nanoparticles. RSC Advances, 2015, 5, 39760-39770.   | 1.7 | 12        |
| 38 | Binding and mucoadhesion of sulfurated derivatives of quaternary ammonium-chitosans and their nanoaggregates: An NMR investigation. Journal of Pharmaceutical and Biomedical Analysis, 2020, 177, 112852.  | 1.4 | 12        |
| 39 | Nanoparticles Based on Quaternary Ammonium Chitosan-methyl- $\beta$ -cyclodextrin Conjugate for the Neuropeptide Dalargin Delivery to the Central Nervous System: An In Vitro Study. Pharmaceutics, 2021, 13, 5.   | 2.0 | 12        |
| 40 | Dead Sea Minerals loaded polymeric nanoparticles. Colloids and Surfaces B: Biointerfaces, 2011, 87, 236-242.   | 2.5 | 11        |
| 41 | Doxorubicin Loaded Polyurethanes Nanoparticles. Nano Biomedicine and Engineering, 2012, 4, .   | 0.3 | 11        |
| 42 | Improvement of Peptide Affinity and Stability by Complexing to Cyclodextrin-Grafted Ammonium Chitosan. Polymers, 2020, 12, 474.  | 2.0 | 11        |
| 43 | pH-Responsive Carboxymethylcellulose Nanoparticles for $^{68}\text{Ga}$ -WBC Labeling in PET Imaging. Polymers, 2019, 11, 1615.  | 2.0 | 9         |
| 44 | Combination of Two Kinds of Medicated Microparticles Based on Hyaluronic Acid or Chitosan for a Wound Healing Spray Patch. Pharmaceutics, 2021, 13, 2195.  | 2.0 | 9         |
| 45 | Polymeric nanostructured items electrospun on a cylindrical template: a simple procedure for their removal. Polymer International, 2011, 60, 1162-1166.  | 1.6 | 8         |
| 46 | Surface decorated poly(ester-ether-urethane)s nanoparticles: A versatile approach towards clinical translation. International Journal of Pharmaceutics, 2014, 475, 523-535.  | 2.6 | 8         |
| 47 | 2-Methyl- $\beta$ -cyclodextrin grafted ammonium chitosan: synergistic effects of cyclodextrin host and polymer backbone in the interaction with amphiphilic prednisolone phosphate salt as revealed by NMR spectroscopy. International Journal of Pharmaceutics, 2020, 587, 119698. | 2.6 | 8         |
| 48 | Chitosan-Based Beads for Controlled Release of Proteins. , 2009, , 111-120.  |     | 6         |
| 49 | Antivirulence Properties of a Low-Molecular-Weight Quaternized Chitosan Derivative against <i>Pseudomonas aeruginosa</i> . Microorganisms, 2021, 9, 912.   | 1.6 | 6         |
| 50 | Intracellular Fate Investigation of Bio-Eliminable Polymeric Nanoparticles by Confocal Laser Scanning Microscopy. Journal of Bioactive and Compatible Polymers, 2007, 22, 667-685.   | 0.8 | 4         |
| 51 | Magnetism and spin dynamics of novel encapsulated iron oxide superparamagnetic nanoparticles. Dalton Transactions, 2013, 42, 10282.  | 1.6 | 4         |
| 52 | Repurposing of Plasminogen: An Orphan Medicinal Product Suitable for SARS-CoV-2 Inhalable Therapeutics. Pharmaceutics, 2020, 13, 425.  | 1.7 | 4         |
| 53 | Effect of Tumor Relevant Acidic Environment in the Interaction of a N-hydroxyindole-2-Carboxylic Derivative with the Phospholipid Bilayer. Pharmaceutical Research, 2018, 35, 175.   | 1.7 | 3         |
| 54 | A New Calcium Oral Controlled-Release System Based on Zeolite for Prevention of Osteoporosis. Nutrients, 2019, 11, 2467.   | 1.7 | 3         |

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|----|---|-----|-----------|
| 55 | A novel Electrospinning Procedure for the Production of Straight Aligned and Winded Fibers. Nano Biomedicine and Engineering, 2011, 3, .  | 0.3 | 3         |
| 56 | Electrospun Polymeric Meshes for Application in Tissue Engineering. Biomedicine and Pharmacotherapy, 2008, 62, 489-490.   | 2.5 | 2         |
| 57 | Saffron extract self-assembled nanoparticles to prolong the precorneal residence of crocin. Journal of Drug Delivery Science and Technology, 2022, 74, 103580.  | 1.4 | 2         |
| 58 | Preparation and Characterization of Retinoic Acidic Loaded Nanoparticles for Cancer Therapy. Biomedicine and Pharmacotherapy, 2008, 62, 492.  | 2.5 | 1         |
| 59 | The Potential Role of Aerosolized Phosphodiesterase 3 Inhibitor Enoximone in the Management of Coronavirus Disease 2019 Hypoxemia: A Case Report. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2021, 34, 262-264. | 0.7 | 1         |
| 60 | Diclofenac sodium (DS) loaded bioerodible polymer based constructs. AIP Conference Proceedings, 2008, , .   | 0.3 | 0         |