

Megan C Frost

List of Publications by Year in descending order

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43
papers

2,228
citations

304743

22
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289244

40
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43
all docs

43
docs citations

43
times ranked

2880
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Control of Orthodontic Tooth Movement by Nitric Oxide Releasing Nanoparticles in Sprague-Dawley Rats. <i>Frontiers in Materials</i> , 2022, 9, . | 2.4 | 2 |
| 2 | Dual Switch Mechanism of Erythropoietin as an Antiapoptotic and Pro-Angiogenic Determinant in the Retina. <i>ACS Omega</i> , 2020, 5, 21113-21126. | 3.5 | 16 |
| 3 | S-Nitroso-N-Acetyl-D-Penicillamine Modified Hyperbranched Polyamidoamine for High-Capacity Nitric Oxide Storage and Release. <i>Bioengineering</i> , 2020, 7, 9. | 3.5 | 7 |
| 4 | Biomimetic recyclable microgels for on-demand generation of hydrogen peroxide and antipathogenic application. <i>Acta Biomaterialia</i> , 2019, 83, 109-118. | 8.3 | 58 |
| 5 | Magnetoelastic galfenol as a stent material for wirelessly controlled degradation rates. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019, 107, 232-241. | 3.4 | 2 |
| 6 | Investigative Study on Nitric Oxide Production in Human Dermal Fibroblast Cells under Normal and High Glucose Conditions. <i>Medical Sciences (Basel, Switzerland)</i> , 2018, 6, 99. | 2.9 | 6 |
| 7 | Synthesis and Characterization of Controlled Nitric Oxide Release from S-Nitroso-N-Acetyl-d-Penicillamine Covalently Linked to Polyvinyl Chloride (SNAP-PVC). <i>Bioengineering</i> , 2018, 5, 72. | 3.5 | 15 |
| 8 | Improving the Performance of Implantable Sensors with Nitric Oxide Release. , 2017, , 191-219. | | 2 |
| 9 | Transition-Metal-Mediated Release of Nitric Oxide (NO) from S-Nitroso-N-acetyl-D-penicillamine (SNAP): Potential Applications for Endogenous Release of NO at the Surface of Stents Via Corrosion Products. <i>ACS Applied Materials & Interfaces</i> . 2016, 8, 10128-10135. | 8.0 | 61 |
| 10 | Direct measurement of actual levels of nitric oxide (NO) in cell culture conditions using soluble NO donors. <i>Redox Biology</i> , 2016, 9, 1-14. | 9.0 | 34 |
| 11 | CellNO trap: Novel device for quantitative, real-time, direct measurement of nitric oxide from cultured RAW 267.4 macrophages. <i>Redox Biology</i> , 2016, 8, 383-397. | 9.0 | 12 |
| 12 | Synthesis and Characterization of the Novel Nitric Oxide (NO) Donating Compound, S-nitroso-N-acetyl-D-penicillamine Derivatized Cyclam (SNAP-Cyclam). <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 5898-5905. | 8.0 | 21 |
| 13 | Real-Time Monitoring of Critical Care Analytes in the Bloodstream with Chemical Sensors: Progress and Challenges. <i>Annual Review of Analytical Chemistry</i> , 2015, 8, 171-192. | 5.4 | 52 |
| 14 | Fabrication and Short-Term in Vivo Performance of a Natural Elastic Lamina-Polymeric Hybrid Vascular Graft. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 16202-16212. | 8.0 | 26 |
| 15 | Increasing Mechanical Strength of Gelatin Hydrogels by Divalent Metal Ion Removal. <i>Scientific Reports</i> , 2014, 4, 4706. | 3.3 | 340 |
| 16 | Fabrication and Characterization of a Nitric Oxide-Releasing Nanofibrous Gelatin Matrix. <i>Biomacromolecules</i> , 2013, 14, 2521-2530. | 5.4 | 37 |
| 17 | Novel device for continuous spatial control and temporal delivery of nitric oxide for in vitro cell culture. <i>Redox Biology</i> , 2013, 1, 332-339. | 9.0 | 10 |
| 18 | Highly Water-Soluble BODIPY-Based Fluorescent Probe for Sensitive and Selective Detection of Nitric Oxide in Living Cells. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 4107-4112. | 8.0 | 73 |

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|----|--|------|-----------|
| 19 | S-Nitroso-N-acetylpenicillamine (SNAP) Derivatization of Peptide Primary Amines to Create Inducible Nitric Oxide Donor Biomaterials. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 8430-8439. | 8.0 | 17 |
| 20 | Inducible nitric oxide releasing poly-(ethylene glycol)-fibrinogen adhesive hydrogels for tissue regeneration. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1569, 39-44. | 0.1 | 4 |
| 21 | Effects of local nitric oxide release on human mesenchymal stem cell attachment and proliferation on gelatin hydrogel surface. <i>Surface Innovations</i> , 2013, 1, 224-232. | 2.3 | 13 |
| 22 | <i>In Vivo</i> Sensors for Continuous Monitoring of Blood Gases, Glucose, and Lactate: Biocompatibility Challenges and Potential Solutions. <i>RSC Detection Science</i> , 2013, , 129-155. | 0.0 | 4 |
| 23 | Wireless platform for controlled nitric oxide releasing optical fibers for mediating biological response to implanted devices. <i>Nitric Oxide - Biology and Chemistry</i> , 2012, 27, 228-234. | 2.7 | 8 |
| 24 | Nitric oxide leads to cytoskeletal reorganization in the retinal pigment epithelium under oxidative stress. <i>Advances in Bioscience and Biotechnology (Print)</i> , 2012, 03, 1167-1178. | 0.7 | 23 |
| 25 | S-Nitroso- <i>N</i> -acetyl-D-penicillamine covalently linked to polydimethylsiloxane (SNAP-PDMS) for use as a controlled photoinitiated nitric oxide release polymer. <i>Science and Technology of Advanced Materials</i> , 2011, 12, 055007. | 6.1 | 36 |
| 26 | Covalent Linking of pH-Sensitive Dye to Fumed Silica. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2010, 4, . | 0.7 | 0 |
| 27 | Toward the Development of Novel Nitric Oxide Donating Polymeric Materials to Improve the Biocompatibility of Implanted Devices. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2010, 4, . | 0.7 | 0 |
| 28 | Fabrication and characterization of an inorganic gold and silica nanoparticle mediated drug delivery system for nitric oxide. <i>Nanotechnology</i> , 2010, 21, 305102. | 2.6 | 48 |
| 29 | Effect of varying nitric oxide release to prevent platelet consumption and preserve platelet function in an in vivo model of extracorporeal circulation. <i>Perfusion (United Kingdom)</i> , 2007, 22, 193-200. | 1.0 | 66 |
| 30 | In Vivo Chemical Sensors: Tackling Biocompatibility. <i>Analytical Chemistry</i> , 2006, 78, 7370-7377. | 6.5 | 139 |
| 31 | Polymers incorporating nitric oxide releasing/generating substances for improved biocompatibility of blood-contacting medical devices. <i>Biomaterials</i> , 2005, 26, 1685-1693. | 11.4 | 315 |
| 32 | Synthesis, characterization, and controlled nitric oxide release from S-nitrosothiol-derivatized fumed silica polymer filler particles. <i>Journal of Biomedical Materials Research - Part A</i> , 2005, 72A, 409-419. | 4.0 | 85 |
| 33 | Fabrication and In Vivo Evaluation of Nitric Oxide-Releasing Electrochemical Oxygen-Sensing Catheters. <i>Methods in Enzymology</i> , 2004, 381, 704-715. | 1.0 | 9 |
| 34 | Nitric Oxide-Releasing Hydrophobic Polymers: Preparation, Characterization, and Potential Biomedical Applications. <i>Free Radical Biology and Medicine</i> , 2004, 37, 926-936. | 2.9 | 100 |
| 35 | Controlled Photoinitiated Release of Nitric Oxide from Polymer Films Containing S-Nitroso-N-acetyl-dl-penicillamine Derivatized Fumed Silica Filler. <i>Journal of the American Chemical Society</i> , 2004, 126, 1348-1349. | 13.7 | 115 |
| 36 | Preparation and characterization of implantable sensors with nitric oxide release coatings. <i>Microchemical Journal</i> , 2003, 74, 277-288. | 4.5 | 51 |

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|----|--|------|-----------|
| 37 | In Vivo Biocompatibility and Analytical Performance of Intravascular Amperometric Oxygen Sensors Prepared with Improved Nitric Oxide-Releasing Silicone Rubber Coating. <i>Analytical Chemistry</i> , 2002, 74, 5942-5947. | 6.5 | 93 |
| 38 | Synthesis and Characterization of Polymethacrylate-Based Nitric Oxide Donors. <i>Journal of the American Chemical Society</i> , 2002, 124, 12182-12191. | 13.7 | 90 |
| 39 | Nitric Oxide-Releasing Fluorescence-Based Oxygen Sensing Polymeric Films. <i>Analytical Chemistry</i> , 2002, 74, 5937-5941. | 6.5 | 34 |
| 40 | Implantable chemical sensors for real-time clinical monitoring: progress and challenges. <i>Current Opinion in Chemical Biology</i> , 2002, 6, 633-641. | 6.1 | 136 |
| 41 | Separation using planar chromatography with electroosmotic flow. <i>Journal of Chromatography A</i> , 2000, 903, 211-217. | 3.7 | 49 |
| 42 | Study of enzyme-catalyzed reactions in organic solvents using multiple linear regression. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 1999, 7, 273-282. | 1.8 | 14 |
| 43 | Empirical equation for the accurate prediction of retention in planar chromatography. <i>Journal of Chromatography A</i> , 1997, 788, 207-211. | 3.7 | 5 |