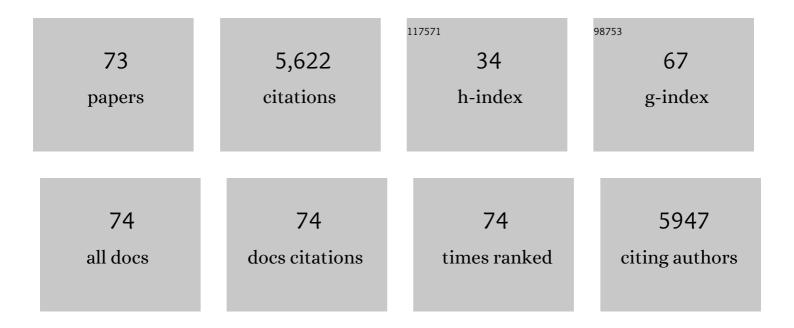
Jeffrey R Capadona

List of Publications by Year in descending order

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IFFEDEV P CADADONA

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Platelet-mimicking procoagulant nanoparticles augment hemostasis in animal models of bleeding. Science Translational Medicine, 2022, 14, eabb8975. | 5.8 | 35 |
| 2 | Characterization of Active Electrode Yield for Intracortical Arrays: Awake versus Anesthesia. Micromachines, 2022, 13, 480. | 1.4 | 6 |
| 3 | Hybrid Fabrication Method for Microfluidic Channels Within a Polymer Nanocomposite for Neural Interfacing Applications. , 2021, , . | | 2 |
| 4 | Intracortical Microelectrode Array Unit Yield under Chronic Conditions: A Comparative Evaluation. Micromachines, 2021, 12, 972. | 1.4 | 16 |
| 5 | Investigation of the Feasibility of Ventricular Delivery of Resveratrol to the Microelectrode Tissue Interface. Micromachines, 2021, 12, 1446. | 1.4 | 6 |
| 6 | Differential expression of genes involved in the acute innate immune response to intracortical microelectrodes. Acta Biomaterialia, 2020, 102, 205-219. | 4.1 | 33 |
| 7 | Investigating the Association between Motor Function, Neuroinflammation, and Recording Metrics in the Performance of Intracortical Microelectrode Implanted in Motor Cortex. Micromachines, 2020, 11, 838. | 1.4 | 1 |
| 8 | Bioelectronic Neural Implants. , 2020, , 1153-1168. | | 0 |
| 9 | Editorial: Bridging the Gap in Neuroelectronic Interfaces. Frontiers in Neuroscience, 2020, 14, 457. | 1.4 | 0 |
| 10 | Second Harmonic Generation Imaging of Collagen in Chronically Implantable Electrodes in Brain Tissue. Frontiers in Neuroscience, 2020, 14, 95. | 1.4 | 14 |
| 11 | Mechanically adaptive implants fabricated with poly(2-hydroxyethyl methacrylate)-based negative photoresists. Journal of Materials Chemistry B, 2020, 8, 6357-6365. | 2.9 | 7 |
| 12 | Toward Standardization of Electrophysiology and Computational Tissue Strain in Rodent Intracortical Microelectrode Models. Frontiers in Bioengineering and Biotechnology, 2020, 8, 416. | 2.0 | 12 |
| 13 | Evaluation of an in vivo model for ventricular shunt infection: a pilot study using a novel antimicrobial-loaded polymer. Journal of Neurosurgery, 2019, 131, 587-595. | 0.9 | 2 |
| 14 | A graphical user interface to assess the neuroinflammatory response to intracortical microelectrodes. Journal of Neuroscience Methods, 2019, 317, 141-148. | 1.3 | 4 |
| 15 | Neuron-like neural probes. Nature Materials, 2019, 18, 429-431. | 13.3 | 8 |
| 16 | Sonic Hedgehog is expressed by hilar mossy cells and regulates cellular survival and neurogenesis in the adult hippocampus. Scientific Reports, 2019, 9, 17402. | 1.6 | 25 |
| 17 | Targeting CD14 on blood derived cells improves intracortical microelectrode performance. Biomaterials, 2018, 163, 163-173. | 5.7 | 47 |
| 18 | Inhibition of the cluster of differentiation 14 innate immunity pathway with IAXO-101 improves chronic microelectrode performance. Journal of Neural Engineering, 2018, 15, 025002. | 1.8 | 31 |

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|----|---|-----|-----------|
| 19 | A Mosquito Inspired Strategy to Implant Microprobes into the Brain. Scientific Reports, 2018, 8, 122. | 1.6 | 67 |
| 20 | The Neuroinflammatory Response to Nanopatterning Parallel Grooves into the Surface Structure of Intracortical Microelectrodes. Advanced Functional Materials, 2018, 28, 1704420. | 7.8 | 39 |
| 21 | Potential for thermal damage to the blood–brain barrier during craniotomy: implications for intracortical recording microelectrodes. Journal of Neural Engineering, 2018, 15, 034001. | 1.8 | 48 |
| 22 | Understanding the Role of Innate Immunity in the Response to Intracortical Microelectrodes. Critical Reviews in Biomedical Engineering, 2018, 46, 341-367. | 0.5 | 18 |
| 23 | Understanding the Effects of Both CD14-Mediated Innate Immunity and Device/Tissue Mechanical Mismatch in the Neuroinflammatory Response to Intracortical Microelectrodes. Frontiers in Neuroscience, 2018, 12, 772. | 1.4 | 17 |
| 24 | Prospects for a Robust Cortical Recording Interface. , 2018, , 393-413. | | 1 |
| 25 | Rodent Behavioral Testing to Assess Functional Deficits Caused by Microelectrode Implantation in the Rat Motor Cortex. Journal of Visualized Experiments, 2018, , . | 0.2 | 5 |
| 26 | Characterization of the Neuroinflammatory Response to Thiol-ene Shape Memory Polymer Coated Intracortical Microelectrodes. Micromachines, 2018, 9, 486. | 1.4 | 30 |
| 27 | A Novel Single Animal Motor Function Tracking System Using Simple, Readily Available Software. Journal of Visualized Experiments, 2018, , . | 0.2 | 1 |
| 28 | The Role of Toll-Like Receptor 2 and 4 Innate Immunity Pathways in Intracortical Microelectrode-Induced Neuroinflammation. Frontiers in Bioengineering and Biotechnology, 2018, 6, 113. | 2.0 | 18 |
| 29 | Bioinspired materials and systems for neural interfacing. Current Opinion in Biomedical Engineering, 2018, 6, 110-119. | 1.8 | 27 |
| 30 | Implantation of Neural Probes in the Brain Elicits Oxidative Stress. Frontiers in Bioengineering and Biotechnology, 2018, 6, 9. | 2.0 | 74 |
| 31 | Anti-inflammatory Approaches to Mitigate the Neuroinflammatory Response to Brain-Dwelling Intracortical Microelectrodes. Journal of Immunological Sciences, 2018, 2, 15-21. | 0.5 | 9 |
| 32 | Microelectrode implantation in motor cortex causes fine motor deficit: Implications on potential considerations to Brain Computer Interfacing and Human Augmentation. Scientific Reports, 2017, 7, 15254. | 1.6 | 55 |
| 33 | Sterilization of Thiol-ene/Acrylate Based Shape Memory Polymers for Biomedical Applications. Macromolecular Materials and Engineering, 2017, 302, 1600331. | 1.7 | 30 |
| 34 | Status Epilepticus due to Intraperitoneal Injection of Vehicle Containing Propylene Glycol in Sprague Dawley Rats. Veterinary Medicine International, 2017, 2017, 1-6. | 0.6 | 2 |
| 35 | Engineering and commercialization of human-device interfaces, from bone to brain. Biomaterials, 2016, 95, 35-46. | 5.7 | 34 |
| 36 | High-throughput in vitro assay to evaluate the cytotoxicity of liberated platinum compounds for stimulating neural electrodes. Journal of Neuroscience Methods, 2016, 273, 1-9. | 1.3 | 15 |

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Influence of resveratrol release on the tissue response to mechanically adaptive cortical implants. Acta Biomaterialia, 2016, 29, 81-93. | 4.1 | 57 |
| 38 | Mechanically adaptive materials for intracortical implants. , 2015, , . | | 4 |
| 39 | Progress towards biocompatible intracortical microelectrodes for neural interfacing applications. Journal of Neural Engineering, 2015, 12, 011001. | 1.8 | 309 |
| 40 | Reducing the "Stress†Antioxidative Therapeutic and Material Approaches May Prevent Intracortical Microelectrode Failure. ACS Macro Letters, 2015, 4, 275-279. | 2.3 | 31 |
| 41 | In vitro evaluation and in vivo demonstration of a biomimetic, hemocompatible, microfluidic artificial lung. Lab on A Chip, 2015, 15, 1366-1375. | 3.1 | 42 |
| 42 | Compliant intracortical implants reduce strains and strain rates in brain tissue <i>in vivo</i> . Journal of Neural Engineering, 2015, 12, 036002. | 1.8 | 85 |
| 43 | Implications of chronic daily anti-oxidant administration on the inflammatory response to intracortical microelectrodes. Journal of Neural Engineering, 2015, 12, 046002. | 1.8 | 38 |
| 44 | Curcumin-releasing mechanically adaptive intracortical implants improve the proximal neuronal density and blood–brain barrier stability. Acta Biomaterialia, 2014, 10, 2209-2222. | 4.1 | 113 |
| 45 | A comparison of neuroinflammation to implanted microelectrodes in rat and mouse models. Biomaterials, 2014, 35, 5637-5646. | 5.7 | 38 |
| 46 | The effects of PEG-based surface modification of PDMS microchannels on long-term hemocompatibility. Journal of Biomedical Materials Research - Part A, 2014, 102, n/a-n/a. | 2.1 | 45 |
| 47 | The effect of residual endotoxin contamination on the neuroinflammatory response to sterilized intracortical microelectrodes. Journal of Materials Chemistry B, 2014, 2, 2517-2529. | 2.9 | 36 |
| 48 | Development of superoxide dismutase mimetic surfaces to reduce accumulation of reactive oxygen species for neural interfacing applications. Journal of Materials Chemistry B, 2014, 2, 2248-2258. | 2.9 | 43 |
| 49 | Mechanically-compliant intracortical implants reduce the neuroinflammatory response. Journal of Neural Engineering, 2014, 11, 056014. | 1.8 | 219 |
| 50 | The roles of blood-derived macrophages and resident microglia in the neuroinflammatory response to implanted Intracortical microelectrodes. Biomaterials, 2014, 35, 8049-8064. | 5.7 | 77 |
| 51 | Microscale Characterization of a Mechanically Adaptive Polymer Nanocomposite With Cotton-Derived Cellulose Nanocrystals for Implantable BioMEMS. Journal of Microelectromechanical Systems, 2014, 23, 774-784. | 1.7 | 9 |
| 52 | The effect of resveratrol on neurodegeneration and blood brain barrier stability surrounding intracortical microelectrodes. Biomaterials, 2013, 34, 7001-7015. | 5.7 | 118 |
| 53 | Bioinspired Water-Enhanced Mechanical Gradient Nanocomposite Films That Mimic the Architecture and Properties of the Squid Beak. Journal of the American Chemical Society, 2013, 135, 5167-5174. | 6.6 | 112 |
| 54 | Environmentally-controlled Microtensile Testing of Mechanically-adaptive Polymer Nanocomposites for ex vivo Characterization. Journal of Visualized Experiments, 2013, , e50078. | 0.2 | 7 |

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 55 | Stab injury and device implantation within the brain results in inversely multiphasic neuroinflammatory and neurodegenerative responses. Journal of Neural Engineering, 2012, 9, 046020. | 1.8 | 209 |
| 56 | Mechanically adaptive nanocomposites for neural interfacing. MRS Bulletin, 2012, 37, 581-589. | 1.7 | 91 |
| 57 | An organotypic spinal cord slice culture model to quantify neurodegeneration. Journal of Neuroscience Methods, 2012, 211, 280-288. | 1.3 | 31 |
| 58 | Reduction of autofluorescence at the microelectrode–cortical tissue interface improves antibody detection. Journal of Neuroscience Methods, 2012, 203, 96-105. | 1.3 | 61 |
| 59 | Biomimetic mechanically adaptive nanocomposites. Progress in Polymer Science, 2010, 35, 212-222. | 11.8 | 196 |
| 60 | Natural Biopolymers: Novel Templates for the Synthesis of Nanostructures. Langmuir, 2010, 26, 8497-8502. | 1.6 | 167 |
| 61 | Stimuli-Responsive Mechanically Adaptive Polymer Nanocomposites. ACS Applied Materials & Interfaces, 2010, 2, 165-174. | 4.0 | 146 |
| 62 | Bio-inspired mechanically-adaptive nanocomposites derived from cotton cellulose whiskers. Journal of Materials Chemistry, 2010, 20, 180-186. | 6.7 | 156 |
| 63 | Polymer Nanocomposites with Nanowhiskers Isolated from Microcrystalline Cellulose. Biomacromolecules, 2009, 10, 712-716. | 2.6 | 235 |
| 64 | Polymer brushes and self-assembled monolayers: Versatile platforms to control cell adhesion to biomaterials (Review). Biointerphases, 2009, 4, FA3-FA16. | 0.6 | 174 |
| 65 | Stimuli-Responsive Polymer Nanocomposites Inspired by the Sea Cucumber Dermis. Science, 2008, 319, 1370-1374. | 6.0 | 881 |
| 66 | Nanocomposites based on cellulose whiskers and (semi)conducting conjugated polymers. Journal of Materials Chemistry, 2007, 17, 2746. | 6.7 | 98 |
| 67 | Preparation of Homogeneous Dispersions of Tunicate Cellulose Whiskers in Organic Solvents. Biomacromolecules, 2007, 8, 1353-1357. | 2.6 | 248 |
| 68 | A versatile approach for the processing of polymer nanocomposites with self-assembled nanofibre templates. Nature Nanotechnology, 2007, 2, 765-769. | 15.6 | 393 |
| 69 | Integrin specificity and enhanced cellular activities associated with surfaces presenting a recombinant fibronectin fragment compared to RGD supports. Biomaterials, 2006, 27, 5459-5470. | 5.7 | 221 |
| 70 | Surface-Nucleated Assembly of Fibrillar Extracellular Matrices. Advanced Materials, 2005, 17, 2604-2608. | 11.1 | 25 |
| 71 | Fibronectin Adsorption and Cell Adhesion to Mixed Monolayers of Tri(ethylene glycol)- and Methyl-Terminated Alkanethiolsâ€. Langmuir, 2003, 19, 1847-1852. | 1.6 | 74 |
| 72 | Micropatterned Surfaces to Engineer Focal Adhesions for Analysis of Cell Adhesion Strengthening. Langmuir, 2002, 18, 5579-5584. | 1.6 | 93 |

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CITATIONS

Brain responses to neural prostheses. , 0, , 554-564.