

Maria Lm Asplund

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,464
citations

430754

18
h-index

477173

29
g-index

33
all docs

33
docs citations

33
times ranked

1906
citing authors

#	ARTICLE	IF	CITATIONS
1	Technology-based approaches toward a better understanding of neuro-coagulation in brain homeostasis. <i>Cell and Tissue Research</i> , 2022, 387, 493-498.	1.5	3
2	Engineering strategies towards overcoming bleeding and glial scar formation around neural probes. <i>Cell and Tissue Research</i> , 2022, 387, 461-477.	1.5	14
3	On the longevity of flexible neural interfaces: Establishing biostability of polyimide-based intracortical implants. <i>Biomaterials</i> , 2022, 281, 121372.	5.7	27
4	Poly(3,4-ethylenedioxythiophene)-Based Neural Interfaces for Recording and Stimulation: Fundamental Aspects and In Vivo Applications. <i>Advanced Science</i> , 2022, 9, e2104701.	5.6	32
5	Skin stimulation and recording: Moving towards metal-free electrodes. <i>Biosensors and Bioelectronics: X</i> , 2022, , 100143.	0.9	7
6	A Subdural Bioelectronic Implant to Record Electrical Activity from the Spinal Cord in Freely Moving Rats. <i>Advanced Science</i> , 2022, 9, e2105913.	5.6	10
7	SIROF stabilized PEDOT/PSS allows biocompatible and reversible direct current stimulation capable of driving electrotaxis in cells. <i>Biomaterials</i> , 2021, 275, 120949.	5.7	19
8	Tutorial: guidelines for standardized performance tests for electrodes intended for neural interfaces and bioelectronics. <i>Nature Protocols</i> , 2020, 15, 3557-3578.	5.5	142
9	Stretchable Electronics Based on Laser Structured, Vapor Phase Polymerized PEDOT/Tosylate. <i>Polymers</i> , 2020, 12, 1654.	2.0	3
10	Conformable polyimide-based $\frac{1}{4}$ EDoGs: Bringing the electrodes closer to the signal source. <i>Biomaterials</i> , 2020, 255, 120178.	5.7	58
11	NanoPt-A Nanostructured Electrode Coating for Neural Recording and Microstimulation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 14855-14865.	4.0	44
12	Wafer-Scale Fabrication of Conducting Polymer Hydrogels for Microelectrodes and Flexible Bioelectronics. <i>Advanced Biology</i> , 2019, 3, e1900072.	3.0	16
13	Applications of PEDOT in bioelectronic medicine. <i>Bioelectronics in Medicine</i> , 2019, 2, 89-99.	2.0	80
14	Tuning drug delivery from conducting polymer films for accurately controlled release of charged molecules. <i>Journal of Controlled Release</i> , 2019, 304, 173-180.	4.8	35
15	Electrochemically Controlled Drug Release from a Conducting Polymer Hydrogel (PDMAAp/PEDOT) for Local Therapy and Bioelectronics. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801488.	3.9	71
16	Long-term recording performance and biocompatibility of chronically implanted cylindrically-shaped, polymer-based neural interfaces. <i>Biomedizinische Technik</i> , 2018, 63, 301-315.	0.9	20
17	Active Control of Dye Release for Neuronal Tracing Using PEDOT-PSS Coated Electrodes. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018, 26, 299-306.	2.7	6
18	Advancing Science: How Bias Holds Us Back. <i>Neuron</i> , 2018, 99, 635-639.	3.8	32

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19	Long-Term Stable Adhesion for Conducting Polymers in Biomedical Applications: IrOx and Nanostructured Platinum Solve the Chronic Challenge. ACS Applied Materials & Interfaces, 2017, 9, 189-197.	4.0	143
20	An interpenetrating, microstructurable and covalently attached conducting polymer hydrogel for neural interfaces. Acta Biomaterialia, 2017, 58, 365-375.	4.1	70
21	Concept and Development of an Electronic Framework Intended for Electrode and Surrounding Environment Characterization In Vivo. Sensors, 2017, 17, 59.	2.1	3
22	A Simple Approach for Molecular Controlled Release based on Atomic Layer Deposition Hybridized Organic-Inorganic Layers. Scientific Reports, 2016, 6, 19574.	1.6	20
23	A double-sided fabrication process for intrafascicular parylene C based electrode arrays. , 2016, 2016, 2798-2801.		3
24	Analytical methods to determine electrochemical factors in electrotaxis setups and their implications for experimental design. Bioelectrochemistry, 2016, 109, 41-48.	2.4	17
25	Accurate neuronal tracing of microelectrodes based on PEDOT-dye coatings. , 2015, , .		2
26	Nanostructured platinum grass enables superior impedance reduction for neural microelectrodes. Biomaterials, 2015, 67, 346-353.	5.7	130
27	A detailed insight into drug delivery from PEDOT based on analytical methods: Effects and side effects. Journal of Biomedical Materials Research - Part A, 2015, 103, 1200-1207.	2.1	38
28	Anti-inflammatory polymer electrodes for glial scar treatment: bringing the conceptual idea to future results. Frontiers in Neuroengineering, 2014, 7, 9.	4.8	23
29	Electroactive polymers for neural interfaces. Polymer Chemistry, 2010, 1, 1374.	1.9	174
30	Incidence of Traumatic Peripheral Nerve Injuries and Amputations in Sweden between 1998 and 2006. Neuroepidemiology, 2009, 32, 217-228.	1.1	122
31	Composite biomolecule/PEDOT materials for neural electrodes. Biointerphases, 2008, 3, 83-93.	0.6	100