

Adam Williamson

List of Publications by Year in descending order

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26
papers

1,649
citations

567281

15
h-index

580821

25
g-index

32
all docs

32
docs citations

32
times ranked

2343
citing authors

#	ARTICLE	IF	CITATIONS
1	High-performance transistors for bioelectronics through tuning of channel thickness. <i>Science Advances</i> , 2015, 1, e1400251.	10.3	501
2	Localized Neuron Stimulation with Organic Electrochemical Transistors on Delaminating Depth Probes. <i>Advanced Materials</i> , 2015, 27, 4405-4410.	21.0	139
3	Controlling Epileptiform Activity with Organic Electronic Ion Pumps. <i>Advanced Materials</i> , 2015, 27, 3138-3144.	21.0	138
4	Electrophoretic drug delivery for seizure control. <i>Science Advances</i> , 2018, 4, eaau1291.	10.3	118
5	The future of the patient-specific Body-on-a-chip. <i>Lab on A Chip</i> , 2013, 13, 3471.	6.0	115
6	Bioelectronic neural pixel: Chemical stimulation and electrical sensing at the same site. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 9440-9445.	7.1	107
7	High-Performance Vertical Organic Electrochemical Transistors. <i>Advanced Materials</i> , 2018, 30, 1705031.	21.0	99
8	The Kainic Acid Models of Temporal Lobe Epilepsy. <i>ENeuro</i> , 2021, 8, ENEURO.0337-20.2021.	1.9	86
9	An Electroencephalography Device with an Integrated Microfluidic Ion Pump for Simultaneous Neural Recording and Electrophoretic Drug Delivery In Vivo. <i>Advanced Biology</i> , 2019, 3, e1800270.	3.0	63
10	A bilayered PVA/PLGA-bioresorbable shuttle to improve the implantation of flexible neural probes. <i>Journal of Neural Engineering</i> , 2018, 15, 065001.	3.5	47
11	Synaptic behavior and STDP of asymmetric nanoscale memristors in biohybrid systems. <i>Nanoscale</i> , 2013, 5, 7297.	5.6	31
12	Orientation of Temporal Interference for Non-invasive Deep Brain Stimulation in Epilepsy. <i>Frontiers in Neuroscience</i> , 2021, 15, 633988.	2.8	30
13	Mimicking the biological world: Methods for the 3D structuring of artificial cellular environments. <i>Engineering in Life Sciences</i> , 2013, 13, 352-367.	3.6	28
14	The design of efficient surface-plasmon-enhanced ultra-thin polymer-based solar cells. <i>Applied Physics Letters</i> , 2011, 99, 093307.	3.3	25
15	Multimodal Characterization of Neural Networks Using Highly Transparent Electrode Arrays. <i>ENeuro</i> , 2018, 5, ENEURO.0187-18.2018.	1.9	25
16	Methodological standards and functional correlates of depth in vivo electrophysiological recordings in control rodents. A TASK 1-WG 3 report of the AES / ILAE Translational Task Force of the ILAE. <i>Epilepsia</i> , 2017, 58, 28-39.	5.1	17
17	Noninvasive Stimulation of Peripheral Nerves using Temporally-Interfering Electrical Fields. <i>Advanced Healthcare Materials</i> , 2022, 11, .	7.6	16
18	In vitro cultivation of biopsy derived primary hepatocytes leads to a more metabolic genotype in perfused 3D scaffolds than static 3D cell culture. <i>RSC Advances</i> , 2013, 3, 16558.	3.6	12

#	ARTICLE	IF	CITATIONS
19	Laser-Driven Wireless Deep Brain Stimulation using Temporal Interference and Organic Electrolytic Photocapacitors. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	10
20	Organic electrolytic photocapacitors for stimulation of the mouse somatosensory cortex. <i>Journal of Neural Engineering</i> , 2021, 18, 066016.	3.5	5
21	Non-thermal Electroporation Ablation of Epileptogenic Zones Stops Seizures in Mice While Providing Reduced Vascular Damage and Accelerated Tissue Recovery. <i>Frontiers in Behavioral Neuroscience</i> , 2021, 15, 774999.	2.0	4
22	Neuronal cell spike sorting using signal features extracted by PARAFAC. , 2013, , .		3
23	Electrophoretic Delivery of γ -aminobutyric Acid (GABA) into Epileptic Focus Prevents Seizures in Mice. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	3
24	Capacitive Sensor Concept for Monitoring Neuronal Activity in Vitro. <i>Biomedizinische Technik</i> , 2012, 57, .	0.8	1
25	Modeling the Formation Process of Grouping Stimuli Sets through Cortical Columns and Microcircuits to Feature Neurons. <i>Computational Intelligence and Neuroscience</i> , 2013, 2013, 1-10.	1.7	1
26	3D engineered neural networks coupled to Micro-Electrode Arrays: Development of an innovative in-vitro experimental model for neurophysiological studies. , 2013, , .		0