Dion Khodagholy

List of Publications by Year
in descending order

38	6,273	218677	361022
papers	citations	26 h-index	35 g-index

42	42	42	6282
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electrically Conducting Elastomeric Fibers with High Stretchability and Stability. Small, 2022, 18, e2102813.	10.0	3
2	Anisotropic Ion Conducting Particulate Composites for Bioelectronics. Advanced Science, 2022, 9, e2104404.	11.2	7
3	Chronic electrical stimulation of peripheral nerves via deep-red light transduced by an implanted organic photocapacitor. Nature Biomedical Engineering, 2022, 6, 741-753.	22.5	59
4	Ionic communication for implantable bioelectronics. Science Advances, 2022, 8, eabm7851.	10.3	25
5	Responsive manipulation of neural circuit pathology by fully implantable, front-end multiplexed embedded neuroelectronics. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	12
6	A transient postnatal quiescent period precedes emergence of mature cortical dynamics. ELife, 2021, 10, .	6.0	11
7	ChitosanâEBased, Biocompatible, Solution Processable Films for In Vivo Localization of Neural Interface Devices. Advanced Materials Technologies, 2020, 5, 1900663.	5.8	13
8	Transcranial Electrical Stimulation and Recording of Brain Activity using Freestanding PlantâEBased Conducting Polymer Hydrogel Composites. Advanced Materials Technologies, 2020, 5, 1900652.	5.8	22
9	Reduced GABAergic Neuron Excitability, Altered Synaptic Connectivity, and Seizures in a KCNT1 Gain-of-Function Mouse Model of Childhood Epilepsy. Cell Reports, 2020, 33, 108303.	6.4	41
10	Translational Neuroelectronics. Advanced Functional Materials, 2020, 30, 1909165.	14.9	44
11	Enhancement-mode ion-based transistor as a comprehensive interface and real-time processing unit for in vivo electrophysiology. Nature Materials, 2020, 19, 679-686.	27.5	182
12	Bioelectronics Research Reaches New Heights. Advanced Materials Technologies, 2020, 5, 2000106.	5.8	1
13	Reply: Interactions of interictal epileptic discharges with sleep slow waves and spindles. Brain, 2020, 143, e28-e28.	7.6	0
14	Mixed-conducting particulate composites for soft electronics. Science Advances, 2020, 6, eaaz6767.	10.3	33
15	Interictal epileptiform discharges shape large-scale intercortical communication. Brain, 2019, 142, 3502-3513.	7.6	59
16	Internal ion-gated organic electrochemical transistor: A building block for integrated bioelectronics. Science Advances, 2019, 5, eaau7378.	10.3	208
17	HighâEDensity Stretchable Electrode Grids for Chronic Neural Recording. Advanced Materials, 2018, 30, e1706520.	21.0	211
18	A Microfluidic Ion Pump for In Vivo Drug Delivery. Advanced Materials, 2017, 29, 1701217.	21.0	97

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19	Learning-enhanced coupling between ripple oscillations in association cortices and hippocampus. Science, 2017, 358, 369-372.	12.6	293
20	Interictal epileptiform discharges induce hippocampalâ€“cortical coupling in temporal lobe epilepsy. Nature Medicine, 2016, 22, 641-648.	30.7	221
21	Bioelectronic neural pixel: Chemical stimulation and electrical sensing at the same site. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9440-9445.	7.1	107
22	Organic electronics for high-resolution electrocorticography of the human brain. Science Advances, 2016, 2, e1601027.	10.3	147
23	High-performance transistors for bioelectronics through tuning of channel thickness. Science Advances, 2015, 1, e1400251.	10.3	501
24	Tools for Probing Local Circuits: High-Density Silicon Probes Combined with Optogenetics. Neuron, 2015, 86, 92-105.	8.1	284
25	NeuroGrid: recording action potentials from the surface of the brain. Nature Neuroscience, 2015, 18, 310-315.	14.8	745
26	High transconductance organic electrochemical transistors. Nature Communications, 2013, 4, 2133.	12.8	612
27	Organic Electrochemical Transistors with Maximum Transconductance at Zero Gate Bias. Advanced Materials, 2013, 25, 7010-7014.	21.0	215
28	In vivo recordings of brain activity using organic transistors. Nature Communications, 2013, 4, 1575.	12.8	776
29	Easyâ€toâ€Fabricate Conducting Polymer Microelectrode Arrays. Advanced Materials, 2013, 25, 2135-2139.	21.0	199
30	Direct Measurement of Ion Mobility in a Conducting Polymer. Advanced Materials, 2013, 25, 4488-4493.	21.0	267
31	Plastic neuronal probes for implantation in cortical and subcortical areas of the rat brain. International Journal of Nanotechnology, 2012, 9, 517.	0.2	8
32	Organic electrochemical transistor incorporating an ionogel as a solid state electrolyte for lactate sensing. Journal of Materials Chemistry, 2012, 22, 4440.	6.7	248
33	Measurement of Barrier Tissue Integrity with an Organic Electrochemical Transistor. Advanced Materials, 2012, 24, 5919-5923.	21.0	152
34	PEDOT:TOS with PEG: a biofunctional surface with improved electronic characteristics. Journal of Materials Chemistry, 2012, 22, 19498.	6.7	42
35	High speed and high density organic electrochemical transistor arrays. Applied Physics Letters, 2011, 99, .	3.3	95
36	Highly Conformable Conducting Polymer Electrodes for In Vivo Recordings. Advanced Materials, 2011, 23, H268-72.	21.0	319

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37	Ions-based high bandwidth communication for implantable bioelectronics. , 0, , .		0
38	Translational Neuroelectronics. , 0, , .		0