

Dion Khodagholy

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

6,273
citations

218677

26
h-index

361022

35
g-index

42
all docs

42
docs citations

42
times ranked

6282
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | In vivo recordings of brain activity using organic transistors. Nature Communications, 2013, 4, 1575. | 12.8 | 776 |
| 2 | NeuroGrid: recording action potentials from the surface of the brain. Nature Neuroscience, 2015, 18, 310-315. | 14.8 | 745 |
| 3 | High transconductance organic electrochemical transistors. Nature Communications, 2013, 4, 2133. | 12.8 | 612 |
| 4 | High-performance transistors for bioelectronics through tuning of channel thickness. Science Advances, 2015, 1, e1400251. | 10.3 | 501 |
| 5 | Highly Conformable Conducting Polymer Electrodes for In Vivo Recordings. Advanced Materials, 2011, 23, H268-72. | 21.0 | 319 |
| 6 | Learning-enhanced coupling between ripple oscillations in association cortices and hippocampus. Science, 2017, 358, 369-372. | 12.6 | 293 |
| 7 | Tools for Probing Local Circuits: High-Density Silicon Probes Combined with Optogenetics. Neuron, 2015, 86, 92-105. | 8.1 | 284 |
| 8 | Direct Measurement of Ion Mobility in a Conducting Polymer. Advanced Materials, 2013, 25, 4488-4493. | 21.0 | 267 |
| 9 | Organic electrochemical transistor incorporating an ionogel as a solid state electrolyte for lactate sensing. Journal of Materials Chemistry, 2012, 22, 4440. | 6.7 | 248 |
| 10 | Interictal epileptiform discharges induce hippocampal-cortical coupling in temporal lobe epilepsy. Nature Medicine, 2016, 22, 641-648. | 30.7 | 221 |
| 11 | Organic Electrochemical Transistors with Maximum Transconductance at Zero Gate Bias. Advanced Materials, 2013, 25, 7010-7014. | 21.0 | 215 |
| 12 | High-Density Stretchable Electrode Grids for Chronic Neural Recording. Advanced Materials, 2018, 30, e1706520. | 21.0 | 211 |
| 13 | Internal ion-gated organic electrochemical transistor: A building block for integrated bioelectronics. Science Advances, 2019, 5, eaau7378. | 10.3 | 208 |
| 14 | Easy-to-Fabricate Conducting Polymer Microelectrode Arrays. Advanced Materials, 2013, 25, 2135-2139. | 21.0 | 199 |
| 15 | 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 |
| 16 | Measurement of Barrier Tissue Integrity with an Organic Electrochemical Transistor. Advanced Materials, 2012, 24, 5919-5923. | 21.0 | 152 |
| 17 | Organic electronics for high-resolution electrocortigraphy of the human brain. Science Advances, 2016, 2, e1601027. | 10.3 | 147 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | A Microfluidic Ion Pump for In Vivo Drug Delivery. <i>Advanced Materials</i> , 2017, 29, 1701217. | 21.0 | 97 |
| 20 | High speed and high density organic electrochemical transistor arrays. <i>Applied Physics Letters</i> , 2011, 99, . | 3.3 | 95 |
| 21 | Interictal epileptiform discharges shape large-scale intercortical communication. <i>Brain</i> , 2019, 142, 3502-3513. | 7.6 | 59 |
| 22 | Chronic electrical stimulation of peripheral nerves via deep-red light transduced by an implanted organic photocapacitor. <i>Nature Biomedical Engineering</i> , 2022, 6, 741-753. | 22.5 | 59 |
| 23 | Translational Neuroelectronics. <i>Advanced Functional Materials</i> , 2020, 30, 1909165. | 14.9 | 44 |
| 24 | PEDOT:TOS with PEG: a biofunctional surface with improved electronic characteristics. <i>Journal of Materials Chemistry</i> , 2012, 22, 19498. | 6.7 | 42 |
| 25 | Reduced GABAergic Neuron Excitability, Altered Synaptic Connectivity, and Seizures in a KCNT1 Gain-of-Function Mouse Model of Childhood Epilepsy. <i>Cell Reports</i> , 2020, 33, 108303. | 6.4 | 41 |
| 26 | Mixed-conducting particulate composites for soft electronics. <i>Science Advances</i> , 2020, 6, eaaz6767. | 10.3 | 33 |
| 27 | Ionic communication for implantable bioelectronics. <i>Science Advances</i> , 2022, 8, eabm7851. | 10.3 | 25 |
| 28 | Transcranial Electrical Stimulation and Recording of Brain Activity using Freestanding Plantâ€Based Conducting Polymer Hydrogel Composites. <i>Advanced Materials Technologies</i> , 2020, 5, 1900652. | 5.8 | 22 |
| 29 | Chitosanâ€Based, Biocompatible, Solution Processable Films for In Vivo Localization of Neural Interface Devices. <i>Advanced Materials Technologies</i> , 2020, 5, 1900663. | 5.8 | 13 |
| 30 | Responsive manipulation of neural circuit pathology by fully implantable, front-end multiplexed embedded neuroelectronics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 7.1 | 12 |
| 31 | A transient postnatal quiescent period precedes emergence of mature cortical dynamics. <i>ELife</i> , 2021, 10, . | 6.0 | 11 |
| 32 | Plastic neuronal probes for implantation in cortical and subcortical areas of the rat brain. <i>International Journal of Nanotechnology</i> , 2012, 9, 517. | 0.2 | 8 |
| 33 | Anisotropic Ion Conducting Particulate Composites for Bioelectronics. <i>Advanced Science</i> , 2022, 9, e2104404. | 11.2 | 7 |
| 34 | Electrically Conducting Elastomeric Fibers with High Stretchability and Stability. <i>Small</i> , 2022, 18, e2102813. | 10.0 | 3 |
| 35 | Bioelectronics Research Reaches New Heights. <i>Advanced Materials Technologies</i> , 2020, 5, 2000106. | 5.8 | 1 |
| 36 | Reply: Interactions of interictal epileptic discharges with sleep slow waves and spindles. <i>Brain</i> , 2020, 143, e28-e28. | 7.6 | 0 |

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