

Richard Fiath

List of Publications by Year in descending order

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33
papers

1,074
citations

516710

16
h-index

501196

28
g-index

37
all docs

37
docs citations

37
times ranked

1785
citing authors

#	ARTICLE	IF	CITATIONS
1	Reliability of reward ERPs in middle-älate adolescents using a custom and a standardized preprocessing pipeline. <i>Psychophysiology</i> , 2022, 59, e14043.	2.4	5
2	Spatial Information Based OSort for Real-Time Spike Sorting Using FPGA. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 99-108.	4.2	19
3	Neural and self-äreported reward responsiveness are associated with dispositional affectivity and emotion dysregulation in adolescents with evidence for convergent and incremental validity. <i>Psychophysiology</i> , 2021, 58, e13723.	2.4	5
4	Recording site placement on planar silicon-based probes affects signal quality in acute neuronal recordings. <i>Scientific Reports</i> , 2021, 11, 2028.	3.3	16
5	ELVISort: encoding latent variables for instant sorting, an artificial intelligence-based end-to-end solution. <i>Journal of Neural Engineering</i> , 2021, 18, 046033.	3.5	7
6	Dataset of cortical activity recorded with high spatial resolution from anesthetized rats. <i>Scientific Data</i> , 2021, 8, 180.	5.3	5
7	Spike detection and sorting with deep learning. <i>Journal of Neural Engineering</i> , 2020, 17, 016038.	3.5	39
8	A community-based transcriptomics classification and nomenclature of neocortical cell types. <i>Nature Neuroscience</i> , 2020, 23, 1456-1468.	14.8	183
9	The neural tissue around SU-8 implants: A quantitative in vivo biocompatibility study. <i>Materials Science and Engineering C</i> , 2020, 112, 110870.	7.3	28
10	Fine-scale mapping of cortical laminar activity during sleep slow oscillations using high-density linear silicon probes. <i>Journal of Neuroscience Methods</i> , 2019, 316, 58-70.	2.5	25
11	A silicon-based spiky probe providing improved cell accessibility during in vitro slice recordings. <i>Sensors and Actuators B: Chemical</i> , 2019, 297, 126649.	7.8	2
12	Slow insertion of silicon probes improves the quality of acute neuronal recordings. <i>Scientific Reports</i> , 2019, 9, 111.	3.3	67
13	Long-term recording performance and biocompatibility of chronically implanted cylindrically-shaped, polymer-based neural interfaces. <i>Biomedizinische Technik</i> , 2018, 63, 301-315.	0.8	20
14	A silicon-based neural probe with densely-packed low-impedance titanium nitride microelectrodes for ultrahigh-resolution in vivo recordings. <i>Biosensors and Bioelectronics</i> , 2018, 106, 86-92.	10.1	61
15	Capturing The Electrical Activity Of Brain Cells With High Resolution: Novel High-Density Sensors Developed For Neuroscience. , 2018, , .		0
16	FPGA-based neural probe positioning to improve spike sorting with OSort algorithm. , 2017, , .		12
17	FPGA-based real-time multichannel neural dataset generation. , 2017, , .		1
18	Hybrid intracerebral probe with integrated bare LED chips for optogenetic studies. <i>Biomedical Microdevices</i> , 2017, 19, 49.	2.8	36

#	ARTICLE	IF	CITATIONS
19	Time Multiplexed Active Neural Probe with 1356 Parallel Recording Sites. <i>Sensors</i> , 2017, 17, 2388.	3.8	141
20	Large-scale recording of thalamocortical circuits: in vivo electrophysiology with the two-dimensional electronic depth control silicon probe. <i>Journal of Neurophysiology</i> , 2016, 116, 2312-2330.	1.8	33
21	Laminar analysis of the slow wave activity in the somatosensory cortex of anesthetized rats. <i>European Journal of Neuroscience</i> , 2016, 44, 1935-1951.	2.6	37
22	A Multimodal, SU-8 - Platinum - Polyimide Microelectrode Array for Chronic In Vivo Neurophysiology. <i>PLoS ONE</i> , 2015, 10, e0145307.	2.5	30
23	In vivo validation of the electronic depth control probes. <i>Biomedizinische Technik</i> , 2014, 59, 283-9.	0.8	8
24	Tunable Low Noise Amplifier Implementation With Low Distortion Pseudo-Resistance for in Vivo Brain Activity Measurement. <i>IEEE Sensors Journal</i> , 2014, 14, 1357-1363.	4.7	15
25	In Vivo Measurements With Robust Silicon-Based Multielectrode Arrays With Extreme Shaft Lengths. <i>IEEE Sensors Journal</i> , 2013, 13, 3263-3269.	4.7	13
26	Astrocytes convert network excitation to tonic inhibition of neurons. <i>BMC Biology</i> , 2012, 10, 26.	3.8	142
27	A novel multisite silicon probe for laminar neural recordings. <i>Procedia Computer Science</i> , 2011, 7, 310-311.	2.0	6
28	High channel count electrode system to investigate thalamocortical interactions. <i>Procedia Computer Science</i> , 2011, 7, 178-179.	2.0	2
29	Two-Dimensional Multi-Channel Neural Probes With Electronic Depth Control. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2011, 5, 403-412.	4.0	51
30	A novel multisite silicon probe for high quality laminar neural recordings. <i>Sensors and Actuators A: Physical</i> , 2011, 166, 14-21.	4.1	28
31	Two-dimensional multi-channel neural probes with electronic depth control. , 2010, , .		6
32	ELVISort: Encoding Latent Variables for Instant Sorting, an Artificial Intelligence-Based End-to-End Solution. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
33	From End to End: Gaining, Sorting, and Employing High-Density Neural Single Unit Recordings. <i>Frontiers in Neuroinformatics</i> , 0, 16, .	2.5	5