

Guihua Xiao

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Microelectrode Arrays Modified with Nanocomposites for Monitoring Dopamine and Spike Firings under Deep Brain Stimulation in Rat Models of Parkinson's Disease. ACS Sensors, 2019, 4, 1992-2000.	7.8	57
2	Folding Paper-Based Aptasensor Platform Coated with Novel Nanoassemblies for Instant and Highly Sensitive Detection of 17 β -Estradiol. ACS Sensors, 2019, 4, 3186-3194.	7.8	52
3	Real-time simultaneous recording of electrophysiological activities and dopamine overflow in the deep brain nuclei of a non-human primate with Parkinson's disease using nano-based microelectrode arrays. Microsystems and Nanoengineering, 2018, 4, .	7.0	41
4	Bio-electrochemical microelectrode arrays for glutamate and electrophysiology detection in hippocampus of temporal lobe epileptic rats. Analytical Biochemistry, 2018, 550, 123-131.	2.4	28
5	In situ detection of neurotransmitters and epileptiform electrophysiology activity in awake mice brains using a nanocomposites modified microelectrode array. Sensors and Actuators B: Chemical, 2019, 288, 601-610.	7.8	24
6	SWCNTs/PEDOT:PSS-Modified Microelectrode Arrays for Dual-Mode Detection of Electrophysiological Signals and Dopamine Concentration in the Striatum under Isoflurane Anesthesia. ACS Sensors, 2021, 6, 3377-3386.	7.8	21
7	A high-sensitive nano-modified biosensor for dynamic monitoring of glutamate and neural spike covariation from rat cortex to hippocampal sub-regions. Journal of Neuroscience Methods, 2017, 291, 122-130.	2.5	20
8	In Situ Real-Time Monitoring of Glutamate and Electrophysiology from Cortex to Hippocampus in Mice Based on a Microelectrode Array. Sensors, 2017, 17, 61.	3.8	17
9	PDMS-Parylene Hybrid, Flexible Micro-ECOG Electrode Array for Spatiotemporal Mapping of Epileptic Electrophysiological Activity from Multicortical Brain Regions. ACS Applied Bio Materials, 2021, 4, 8013-8022.	4.6	17
10	Flexible Electrocorticography Electrode Array for Epileptiform Electrical Activity Recording under Glutamate and GABA Modulation on the Primary Somatosensory Cortex of Rats. Micromachines, 2020, 11, 732.	2.9	15
11	CB1-Antibody Modified Liposomes for Targeted Modulation of Epileptiform Activities Synchronously Detected by Microelectrode Arrays. ACS Applied Materials & Interfaces, 2020, 12, 41148-41156.	8.0	15
12	An integrated system for synchronous detection of neuron spikes and dopamine activities in the striatum of Parkinson monkey brain. Journal of Neuroscience Methods, 2018, 304, 83-91.	2.5	14
13	Nanoliposome-encapsulated caged-GABA for modulating neural electrophysiological activity with simultaneous detection by microelectrode arrays. Nano Research, 2020, 13, 1756-1763.	10.4	11
14	Recording of Neural Activity With Modulation of Photolysis of Caged Compounds Using Microelectrode Arrays in Rats With Seizures. IEEE Transactions on Biomedical Engineering, 2019, 66, 3080-3087.	4.2	10
15	Cellular-Scale Microelectrode Arrays to Monitor Movement-Related Neuron Activities in the Epileptic Hippocampus of Awake Mice. IEEE Transactions on Biomedical Engineering, 2021, 68, 19-25.	4.2	8
16	Platinum/Graphene Oxide Coated Microfabricated Arrays for Multinucleus Neural Activities Detection in the Rat Models of Parkinson's Disease Treated by Apomorphine. ACS Applied Bio Materials, 2019, 2, 4010-4019.	4.6	7
17	Dopamine and Striatal Neuron Firing Respond to Frequency-Dependent DBS Detected by Microelectrode Arrays in the Rat Model of Parkinson's Disease. Biosensors, 2020, 10, 136.	4.7	5
18	High resolution functional localization of epileptogenic focus with glutamate and electrical signals detection by ultramicroelectrode arrays. Sensors and Actuators B: Chemical, 2020, 317, 128137.	7.8	4

#	ARTICLE	IF	CITATIONS
19	Implanted microelectrode arrays for evaluating inhibited seizure modulated by light-responsive hydrogel. <i>Journal of Micromechanics and Microengineering</i> , 2021, 31, 105005.	2.6	3
20	Electrophysiological Detection of Cortical Neurons under Gamma-Aminobutyric Acid and Glutamate Modulation Based on Implantable Microelectrode Array Combined with Microinjection*. , 2018, 2018, 4583-4586.		2
21	Microelectrode arrays studies of glutamate excitatory pathway in hippocampus CA3 by offside KCl and glutamate stimulating. , 2017, , .		1
22	Implantable Microelectrode Arrays for Epileptiform Electrical Signals Detection in the Awake Epileptic Mice. , 2019, , .		1
23	Functional localization in the brain of a cynomolgus monkey based on spike pattern recognition with machine learning. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2023, 14, 15469-15476.	4.9	1
24	Effects of Long-Term and Acute Hindlimb Unloading Model on Neuroelectrophysiological Signals of Hippocampal Interneurons and Pyramidal Cells Using Microelectrode Arrays. <i>IEEE Access</i> , 2020, 8, 198822-198831.	4.2	0