

Vasiliki Giagka

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

279
citations

1163117

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h-index

1372567

10
g-index

27
all docs

27
docs citations

27
times ranked

328
citing authors

#	ARTICLE	IF	CITATIONS
1	Realizing flexible bioelectronic medicines for accessing the peripheral nerves – technology considerations. <i>Bioelectronic Medicine</i> , 2018, 4, 8.	2.3	45
2	Towards a wearable near infrared spectroscopic probe for monitoring concentrations of multiple chromophores in biological tissue <i>in vivo</i> . <i>Review of Scientific Instruments</i> , 2016, 87, 065112.	1.3	44
3	Bidirectional Bioelectronic Interfaces: System Design and Circuit Implications. <i>IEEE Solid-State Circuits Magazine</i> , 2020, 12, 30-46.	0.4	34
4	An Implantable Versatile Electrode-Driving ASIC for Chronic Epidural Stimulation in Rats. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2015, 9, 387-400.	4.0	21
5	Monolithic integration of a smart temperature sensor on a modular silicon-based organ-on-a-chip device. <i>Sensors and Actuators A: Physical</i> , 2021, 317, 112439.	4.1	19
6	Flexible active electrode arrays with ASICs that fit inside the rat’s spinal canal. <i>Biomedical Microdevices</i> , 2015, 17, 106.	2.8	16
7	An Ultra High-Frequency 8-Channel Neurostimulator Circuit With 68% Peak Power Efficiency. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2019, 13, 882-892.	4.0	16
8	Silicone encapsulation of thin-film SiO _x , SiO _x N _y and SiC for modern electronic medical implants: a comparative long-term ageing study. <i>Journal of Neural Engineering</i> , 2021, 18, 055003.	3.5	13
9	Effect of Signals on the Encapsulation Performance of Parylene Coated Platinum Tracks for Active Medical Implants. , 2019, 2019, 3840-3844.		10
10	An Ultrasonically Powered and Controlled Ultra-High-Frequency Biphasic Electrical Neurostimulator. , 2018, , .		9
11	A Chip Integrity Monitor for Evaluating Moisture/Ion Ingress in mm-Sized Single-Chip Implants. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2020, 14, 658-670.	4.0	7
12	Thin Film Encapsulation for LCP-Based Flexible Bioelectronic Implants: Comparison of Different Coating Materials Using Test Methodologies for Life-Time Estimation. <i>Micromachines</i> , 2022, 13, 544.	2.9	7
13	An Energy-Efficient, Inexpensive, Spinal Cord Stimulator with Adaptive Voltage Compliance for Freely Moving Rats. , 2018, 2018, 2937-2940.		6
14	Controlled silicon IC thinning on individual die level for active implant integration using a purely mechanical process. , 2014, , .		5
15	Pressure measurement of geometrically curved ultrasound transducer array for spatially specific stimulation of the vagus nerve. , 2019, , .		5
16	PDMS-Parylene Adhesion Improvement via Ceramic Interlayers to Strengthen the Encapsulation of Active Neural Implants. , 2020, 2020, 3399-3402.		5
17	A dedicated electrode driving ASIC for epidural spinal cord stimulation in rats. , 2013, , .		4
18	Circuit Design Considerations for Power-Efficient and Safe Implantable Electrical Neurostimulators. , 2020, , .		4

#	ARTICLE	IF	CITATIONS
19	A Chip Integrity Monitor for Evaluating Long-term Encapsulation Performance Within Active Flexible Implants. , 2019, , .		3
20	Evaluation and optimization of the mechanical strength of bonds between metal foil and aluminium pads on thin ASICs using gold ball studs as micro-rivets. , 2014, , .		2
21	Design and Custom Fabrication of a Smart Temperature Sensor for an Organ-on-a-chip Platform. , 2018, , .		1
22	Towards a Wireless System that Can Monitor the Encapsulation of mm-sized Active Implants in vivo for Bioelectronic Medicine. , 2021, , .		1
23	UV and IR Laser-Patterning for High-Density Thin-Film Neural Interfaces. , 2021, , .		1
24	Investigation of the long-term adhesion and barrier properties of a PDMS-Parylene stack with PECVD ceramic interlayers for the conformal encapsulation of neural implants. , 2021, , .		1
25	Comments on "Compact, Energy-Efficient High-Frequency Switched Capacitor Neural Stimulator With Active Charge Balancing". IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 480-480.	4.0	0
26	Dorsal Root Ganglion (DRG) Versatile Stimulator Prototype Developed for Use in Locomotion Recovery Early Clinical Trials. , 2021, , .		0
27	Towards a Microfabricated Flexible Graphene-Based Active Implant for Tissue Monitoring During Optogenetic Spinal Cord Stimulation. , 2019, , .		0