

# Giuseppe Schiavone

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

846  
citations

687363

13  
h-index

580821

25  
g-index

40  
all docs

40  
docs citations

40  
times ranked

1047  
citing authors

#	ARTICLE	IF	CITATIONS
1	Neuroprosthetic baroreflex controls haemodynamics after spinal cord injury. <i>Nature</i> , 2021, 590, 308-314.	27.8	96
2	Recruitment of upper-limb motoneurons with epidural electrical stimulation of the cervical spinal cord. <i>Nature Communications</i> , 2021, 12, 435.	12.8	92
3	Intraoperative Ultrasound-Guided Resection of Gliomas: A Meta-Analysis and Review of the Literature. <i>World Neurosurgery</i> , 2016, 92, 255-263.	1.3	78
4	Conformable Hybrid Systems for Implantable Bioelectronic Interfaces. <i>Advanced Materials</i> , 2020, 32, e1903904.	21.0	70
5	Soft, Implantable Bioelectronic Interfaces for Translational Research. <i>Advanced Materials</i> , 2020, 32, e1906512.	21.0	67
6	Structured nanoscale metallic glass fibres with extreme aspect ratios. <i>Nature Nanotechnology</i> , 2020, 15, 875-882.	31.5	59
7	Conformable bioelectronic interfaces: Mapping the road ahead. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	49
8	Guidelines to Study and Develop Soft Electrode Systems for Neural Stimulation. <i>Neuron</i> , 2020, 108, 238-258.	8.1	49
9	MRI-compatible and Conformal Electrocorticography Grids for Translational Research. <i>Advanced Science</i> , 2021, 8, 2003761.	11.2	33
10	Epidural electrical stimulation of the cervical dorsal roots restores voluntary upper limb control in paralyzed monkeys. <i>Nature Neuroscience</i> , 2022, 25, 924-934.	14.8	30
11	Integrated Magnetic MEMS Relays: Status of the Technology. <i>Micromachines</i> , 2014, 5, 622-653.	2.9	25
12	Extended Barrier Lifetime of Partially Cracked Organic/Inorganic Multilayers for Compliant Implantable Electronics. <i>Small</i> , 2021, 17, e2103039.	10.0	20
13	A wafer mapping technique for residual stress in surface micromachined films. <i>Journal of Micromechanics and Microengineering</i> , 2016, 26, 095013.	2.6	19
14	Microscale Liquid Metal Conductors for Stretchable and Transparent Electronics. <i>Advanced Materials Technologies</i> , 2021, 6, 2100690.	5.8	16
15	A modular strategy for next-generation upper-limb sensory-motor neuroprostheses. <i>Med</i> , 2021, 2, 912-937.	4.4	16
16	Fabrication and Measurement of Test Structures to Monitor Stress in SU-8 Films. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2012, 25, 346-354.	1.7	13
17	Characterisation of electroplated NiFe films using test structures and wafer mapped measurements. , 2011, , .		11
18	Optimised co-electrodeposition of Fe-Ga alloys for maximum magnetostriction effect. <i>Sensors and Actuators A: Physical</i> , 2015, 223, 91-96.	4.1	11

#	ARTICLE	IF	CITATIONS
19	Selective Recruitment of Arm Motoneurons in Nonhuman Primates Using Epidural Electrical Stimulation of the Cervical Spinal Cord. , 2018, 2018, 1424-1427.		10
20	A highly compact packaging concept for ultrasound transducer arrays embedded in neurosurgical needles. Microsystem Technologies, 2017, 23, 3881-3891.	2.0	9
21	Fabrication of Electrodeposited Ni-Fe Cantilevers for Magnetic MEMS Switch Applications. Journal of Microelectromechanical Systems, 2015, 24, 870-879.	2.5	8
22	Long-term functionality of a soft electrode array for epidural spinal cord stimulation in a minipig model. , 2018, 2018, 1432-1435.		8
23	Quantitative wafer mapping of residual stress in electroplated NiFe films using independent strain and Young's modulus measurements. , 2012, , .		7
24	Biomedical Microtechnologies Beyond Scholarly Impact. Micromachines, 2021, 12, 1471.	2.9	7
25	Dual Orientation 16-MHz Single-Element Ultrasound Needle Transducers for Image-Guided Neurosurgical Intervention. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 233-244.	3.0	5
26	Integration of Electrodeposited Ni-Fe in MEMS with Low-Temperature Deposition and Etch Processes. Materials, 2017, 10, 323.	2.9	5
27	Advanced electrical array interconnections for ultrasound probes integrated in surgical needles. , 2014, , .		4
28	Bioelectronic Interfaces: Soft, Implantable Bioelectronic Interfaces for Translational Research (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.10	4
29	Correlation of optical and electrical test structures for characterisation of copper self-annealing. , 2012, , .		3
30	15 MHz single element ultrasound needle transducers for neurosurgical applications. , 2014, , .		3
31	Micromechanical test structures for the characterisation of electroplated NiFe cantilevers and their viability for use in MEMS switching devices. , 2013, , .		2
32	Characterisation of residual stress in dielectric films studied by automated wafer mapping. , 2014, , .		2
33	Microfabricated bioelectronic systems for prevention, diagnostics and treatment of neurological disorders. , 2019, , .		2
34	Dimensional scaling of thin-film stimulation electrode systems in translational research. Journal of Neural Engineering, 2021, 18, 046054.	3.5	2
35	Chronic recording of cortical activity underlying vocalization in awake minipigs. Journal of Neuroscience Methods, 2022, 366, 109427.	2.5	2
36	Ex-vivo navigation of neurosurgical biopsy needles using microultrasound transducers with M-mode imaging. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
37	Electrodeposited magnetostrictive Fe-Ga alloys for miniaturised actuators. , 2014, , .		0
38	A compact packaging technique for the integration of ultrasound probes in surgical needles. , 2015, , .		0