Giuseppe Schiavone

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

35 papers	401 citations	10 h-index	19 g-index
40 ext. papers	629 ext. citations	11.7 avg, IF	4.11 L-index

#	Paper	IF	Citations
35	Chronic Recording of Cortical Activity Underlying Vocalization in Awake Minipigs. *Journal of Neuroscience Methods*, **2021**, 366, 109427	3	
34	MRI-Compatible and Conformal Electrocorticography Grids for Translational Research. *Advanced Science*, **2021**, 8, 2003761	13.6	9
33	Dimensional scaling of thin-film stimulation electrode systems in translational research. *Journal of Neural Engineering*, **2021**, 18,	5	1
32	Neuroprosthetic baroreflex controls haemodynamics after spinal cord injury. *Nature*, **2021**, 590, 308-314	50.4	27
31	Recruitment of upper-limb motoneurons with epidural electrical stimulation of the cervical spinal cord. *Nature Communications*, **2021**, 12, 435	17.4	31
30	Microscale Liquid Metal Conductors for Stretchable and Transparent Electronics. *Advanced Materials Technologies*, **2021**, 6, 2100690	6.8	4
29	A modular strategy for next-generation upper-limb sensory-motor neuroprostheses.. *Med*, **2021**, 2, 912-937	3.17	2
28	Extended Barrier Lifetime of Partially Cracked Organic/Inorganic Multilayers for Compliant Implantable Electronics. *Small*, **2021**, 17, e2103039	11	3
27	Bioelectronic Interfaces: Soft, Implantable Bioelectronic Interfaces for Translational Research (Adv. Mater. 17/2020). *Advanced Materials*, **2020**, 32, 2070133	24	2
26	Soft, Implantable Bioelectronic Interfaces for Translational Research. *Advanced Materials*, **2020**, 32, e1906512	24	38
25	Conformable Hybrid Systems for Implantable Bioelectronic Interfaces. *Advanced Materials*, **2020**, 32, e1903904	24	41
24	Structured nanoscale metallic glass fibres with extreme aspect ratios. *Nature Nanotechnology*, **2020** , 15, 875-882	28.7	30
23	Guidelines to Study and Develop Soft Electrode Systems for Neural Stimulation. *Neuron*, **2020**, 108, 238-258	13.9	17
22	Conformable bioelectronic interfaces: Mapping the road ahead. *Science Translational Medicine*, **2019**, 11,	17.5	35
21	Microfabricated bioelectronic systems for prevention, diagnostics and treatment of neurological disorders **2019**,		2
20	Selective Recruitment of Arm Motoneurons in Nonhuman Primates Using Epidural Electrical Stimulation of the Cervical Spinal Cord. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2018**, 2018, 1424-1427	0.9	6
19	Long-term functionality of a soft electrode array for epidural spinal cord stimulation in a minipig model. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2018**, 2018, 1432-1435	0.9	7

18	A highly compact packaging concept for ultrasound transducer arrays embedded in neurosurgical needles. *Microsystem Technologies*, **2017**, 23, 3881-3891	1.7	2
17	Integration of Electrodeposited Ni-Fe in MEMS with Low-Temperature Deposition and Etch Processes. *Materials*, **2017**, 10,	3.5	4
16	Dual Orientation 16-MHz Single-Element Ultrasound Needle Transducers for Image-Guided Neurosurgical Intervention. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2016**, 63, 233-44	3.2	4
15	A wafer mapping technique for residual stress in surface micromachined films. *Journal of Micromechanics and Microengineering*, **2016**, 26, 095013	2	13
14	Intraoperative Ultrasound-Guided Resection of Gliomas: A Meta-Analysis and Review of the Literature. *World Neurosurgery*, **2016**, 92, 255-263	2.1	53
13	. *Journal of Microelectromechanical Systems*, **2015**, 24, 870-879	2.5	5
12	Ex-vivo navigation of neurosurgical biopsy needles using microultrasound transducers with M-mode imaging **2015**,		1
11	Optimised co-electrodeposition of Fe□a alloys for maximum magnetostriction effect. *Sensors and Actuators A: Physical*, **2015**, 223, 91-96	3.9	9
10	Characterisation of residual stress in dielectric films studied by automated wafer mapping **2014**,		2
9	Integrated Magnetic MEMS Relays: Status of the Technology. *Micromachines*, **2014**, 5, 622-653	3.3	18
8	Advanced electrical array interconnections for ultrasound probes integrated in surgical needles **2014**,		1
7	15 MHz single element ultrasound needle transducers for neurosurgical applications **2014**,		1
6	Micromechanical test structures for the characterisation of electroplated NiFe cantilevers and their viability for use in MEMS switching devices **2013**,		2
5	Quantitative wafer mapping of residual stress in electroplated NiFe films using independent strain and Young's modulus measurements **2012**,		4
4	Correlation of optical and electrical test structures for characterisation of copper self-annealing **2012**,		3
3	Fabrication and Measurement of Test Structures to Monitor Stress in SU-8 Films. *IEEE Transactions on Semiconductor Manufacturing*, **2012**, 25, 346-354	2.6	9
2	Characterisation of electroplated NiFe films using test structures and wafer mapped measurements **2011**,		9
1	Recruitment of Upper-Limb Motoneurons with Epidural Electrical Stimulation of the Primate Cervical Spinal Cord		3