Ryan Caldwell

List of Publications by Year
in descending order

8 papers	279 citations	1478505 6 h-index	1588992 8 g-index
9 all docs	9 docs citations	9 times ranked	417 citing authors

#	Article	IF	Citations
1	Long-term reliability of Al₂O₃and Parylene C bilayer encapsulated Utah electrode array based neural interfaces for chronic implantation. Journal of Neural Engineering, 2014, 11, 026016.	3.5	99
2	Long-Term Bilayer Encapsulation Performance of Atomic Layer Deposited Al<formula formulatype="inline"> <tex Notation="TeX">$_{f 2}$</tex></formula>O<formula formulatype="inline"><tex Notation="TeX">$_{f 3}$</tex></formula> and Parylene C for Biomedical Implantable Devices. IEEE Transactions on Biomedical Engineering, 2013, 60, 2943-2951.	4.2	69
3	Characterization of Parylene-C degradation mechanisms: In vitro reactive accelerated aging model compared to multiyear in vivo implantation. Biomaterials, 2020, 232, 119731.	11.4	56
4	Analysis of Al₂O₃â€”parylene C bilayer coatings and impact of microelectrode topography on long term stability of implantable neural arrays. Journal of Neural Engineering, 2017, 14, 046011.	3.5	24
5	Neural electrode resilience against dielectric damage may be improved by use of highly doped silicon as a conductive material. Journal of Neuroscience Methods, 2018, 293, 210-225.	2.5	20
6	Self-aligned tip deinsulation of atomic layer deposited Al2O3and parylene C coated Utah electrode array based neural interfaces. Journal of Micromechanics and Microengineering, 2014, 24, 035003.	2.6	8
7	MRI-only occult geriatric hip fractures: is displacement common with nonoperative treatment?. Archives of Orthopaedic and Trauma Surgery, 2021, 141, 1109-1114.	2.4	2
8	Atomic Layer Deposited Al2O3 and Parylene C Bi-layer Encapsulation for Utah Electrode Array Based Neural Interfaces. Materials Research Society Symposia Proceedings, 2014, 1621, 259-265.	0.1	1