

# Alfred Stett

## List of Publications by Year in descending order

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33  
papers

2,985  
citations

430874

18  
h-index

526287

27  
g-index

35  
all docs

35  
docs citations

35  
times ranked

2392  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sputtered Iridium Oxide as Electrode Material for Subretinal Stimulation. Sensors and Materials, 2020, 32, 2903.	0.5	6
2	Examination of dielectric strength of thin Parylene C films under various conditions. Current Directions in Biomedical Engineering, 2016, 2, 39-41.	0.4	9
3	New Perspectives on Neuroengineering and Neurotechnologies: NSF-DFG Workshop Report. IEEE Transactions on Biomedical Engineering, 2016, 63, 1354-1367.	4.2	23
4	Plasma treatment on novel carbon fiber reinforced PEEK cages to enhance bioactivity. Current Directions in Biomedical Engineering, 2016, 2, 569-572.	0.4	6
5	High voltage insulation properties of DLC-Parylene multilayer films for microsurgery instruments. Microelectronic Engineering, 2016, 153, 126-131.	2.4	3
6	Evaluation of adhesion promoters for Parylene C on gold metallization. Current Directions in Biomedical Engineering, 2015, 1, 493-497.	0.4	11
7	A CMOS-based sensor array for in-vitro neural tissue interfacing with 4225 recording sites and 1024 stimulation sites. , 2014, , .		52
8	Application of PEDOTâ€¢CNT Microelectrodes for Neurotransmitter Sensing. Electroanalysis, 2014, 26, 548-555.	2.9	31
9	PEDOTâ€¢CNT Composite Microelectrodes for Recording and Electrostimulation Applications: Fabrication, Morphology, and Electrical Properties. Frontiers in Neuroengineering, 2012, 5, 8.	4.8	152
10	Carbon nanotubes grown on polyimide by chemical vapour deposition. , 2012, , .		2
11	Development and characterization of a needle-type microelectrode array for stimulation and recording of neuronal activity. Microelectronic Engineering, 2012, 98, 453-457.	2.4	0
12	Subretinal electronic chips allow blind patients to read letters and combine them to words. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 1489-1497.	2.6	717
13	Spatial Resolution and Perception of Patterns Mediated by a Subretinal 16-Electrode Array in Patients Blinded by Hereditary Retinal Dystrophies. , 2011, 52, 5995.		143
14	Electric Field Stimulation of Bipolar Cells in a Degenerated Retinaâ€¢A Theoretical Study. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2010, 18, 1-10.	4.9	20
15	Plasma enhanced chemical vapor deposition grown carbon nanotubes from ferritin catalyst for neural stimulation microelectrodes. Microelectronic Engineering, 2010, 87, 734-737.	2.4	6
16	Chemical Stimulation of Adherent Cells by Localized Application of Acetylcholine from a Microfluidic System. Frontiers in Neuroengineering, 2010, 3, 113.	4.8	9
17	Restoration of useful vision up to letter recognition capabilities using subretinal microphotodiodes. , 2010, 2010, 5919-22.		24
18	Neuroprotective effect of transretinal electrical stimulation on neurons in the inner nuclear layer of the degenerated retina. Brain Research Bulletin, 2009, 79, 15-25.	3.0	45

#	ARTICLE	IF	CITATIONS
19	Thin-film epidural microelectrode arrays for somatosensory and motor cortex mapping in rat. <i>Journal of Neuroscience Methods</i> , 2008, 172, 255-262.	2.5	20
20	A 1600-pixel Subretinal Chip with DC-free Terminals and $\hat{A}\pm 2V$ Supply Optimized for Long Lifetime and High Stimulation Efficiency. , 2008, , .		20
21	Retinal charge sensitivity and spatial discrimination obtainable by subretinal implants: key lessons learned from isolated chicken retina. <i>Journal of Neural Engineering</i> , 2007, 4, S7-S16.	3.5	57
22	Localized Functional Chemical Stimulation of TE 671 Cells Cultured on Nanoporous Membrane by Calcein and Acetylcholine. <i>Biophysical Journal</i> , 2007, 92, L04-L06.	0.5	7
23	On Micro-Electrode Array Revival: Its Development, Sophistication of Recording, and Stimulation. , 2006, , 24-37.		24
24	The Retinasensor: An In Vitro Tool to Study Drug Effects on Retinal Signaling. , 2006, , 321-331.		3
25	Subretinal electrical stimulation of the rabbit retina with acutely implanted electrode arrays. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2004, 242, 587-596.	1.9	77
26	Patch-clamping of primary cardiac cells with micro-openings in polyimide films. <i>Medical and Biological Engineering and Computing</i> , 2003, 41, 233-240.	2.8	48
27	Biological application of microelectrode arrays in drug discovery and basic research. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 377, 486-495.	3.7	408
28	CYTOCENTERING: a novel technique enabling automated cell-by-cell patch clamping with the CYTOPATCH chip. <i>Receptors and Channels</i> , 2003, 9, 59-66.	1.1	17
29	Electrical multisite stimulation of the isolated chicken retina. <i>Vision Research</i> , 2000, 40, 1785-1795.	1.4	271
30	Can subretinal microphotodiodes successfully replace degenerated photoreceptors?. <i>Vision Research</i> , 1999, 39, 2555-2567.	1.4	285
31	Two-way silicon-neuron interface by electrical induction. <i>Physical Review E</i> , 1997, 55, 1779-1782.	2.1	39
32	The Development of Subretinal Microphotodiodes for Replacement of Degenerated Photoreceptors. <i>Ophthalmic Research</i> , 1997, 29, 269-280.	1.9	219
33	Silicon-Neuron Junction: Capacitive Stimulation of an Individual Neuron on a Silicon Chip. <i>Physical Review Letters</i> , 1995, 75, 1670-1673.	7.8	169