

# Alexander C Thompson

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6229907/publications.pdf>

Version: 2024-02-01

17  
papers

438  
citations

840119

11  
h-index

996533

15  
g-index

17  
all docs

17  
docs citations

17  
times ranked

497  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical Stimulation of Neurons. <i>Current Molecular Imaging</i> , 2015, 3, 162-177.	0.7	83
2	Infrared neural stimulation fails to evoke neural activity in the deaf guinea pig cochlea. <i>Hearing Research</i> , 2015, 324, 46-53.	0.9	58
3	Modeling of light absorption in tissue during infrared neural stimulation. <i>Journal of Biomedical Optics</i> , 2012, 17, 0750021.	1.4	52
4	Teraflop per second gravitational lensing ray-shooting using graphics processing units. <i>New Astronomy</i> , 2010, 15, 16-23.	0.8	42
5	Modeling of the temporal effects of heating during infrared neural stimulation. <i>Journal of Biomedical Optics</i> , 2013, 18, 035004.	1.4	42
6	Infrared Neural Stimulation: Influence of Stimulation Site Spacing and Repetition Rates on Heating. <i>IEEE Transactions on Biomedical Engineering</i> , 2013, 60, 3534-3541.	2.5	39
7	Platinum dissolution and tissue response following long-term electrical stimulation at high charge densities. <i>Journal of Neural Engineering</i> , 2021, 18, 036021.	1.8	27
8	Optical stimulation of neural tissue. <i>Healthcare Technology Letters</i> , 2020, 7, 58-65.	1.9	25
9	Challenges for the application of optical stimulation in the cochlea for the study and treatment of hearing loss. <i>Expert Opinion on Biological Therapy</i> , 2017, 17, 213-223.	1.4	19
10	Thermal damage threshold of neurons during infrared stimulation. <i>Biomedical Optics Express</i> , 2020, 11, 2224.	1.5	16
11	Origins of Spectral Changes in Fiber Bragg Gratings Due to Macrobending. <i>Journal of Lightwave Technology</i> , 2012, 30, 3500-3511.	2.7	13
12	Chronic intracochlear electrical stimulation at high charge densities: reducing platinum dissolution. <i>Journal of Neural Engineering</i> , 2020, 17, 056009.	1.8	10
13	Response of primary auditory neurons to stimulation with infrared light in vitro. <i>Journal of Neural Engineering</i> , 2021, 18, 046003.	1.8	6
14	Provision of interaural time difference information in chronic intracochlear electrical stimulation enhances neural sensitivity to these differences in neonatally deafened cats. <i>Hearing Research</i> , 2021, 406, 108253.	0.9	4
15	Modeling of bend effects on fiber Bragg gratings. <i>Proceedings of SPIE</i> , 2012, , .	0.8	1
16	Infrared nerve stimulation: modelling of photon transport and heat conduction. , 2013, , .		1
17	Bend effects on fibre Bragg gratings in standard and low bend loss optical fibres. , 2010, , .		0