

Gunchul Shin

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/622492/gunchul-shin-publications-by-year.pdf>

Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

24 papers	3,266 citations	20 h-index	26 g-index
26 ext. papers	3,823 ext. citations	13.6 avg, IF	4.43 L-index

#	Paper	IF	Citations
24	Studies of Parylene/Silicone-Coated Soft Bio-Implantable Optoelectronic Device. <i>Coatings</i> , 2020 , 10, 404	2.9	3
23	Soft, Wirelessly Powered Humidity Sensor Based on SnO Nanowires for Wireless/Wearable Sensor Application. <i>Materials</i> , 2020 , 13,	3.5	4
22	Biodegradable Optical Fiber in a Soft Optoelectronic Device for Wireless Optogenetic Applications. <i>Coatings</i> , 2020 , 10, 1153	2.9	3
21	Flexible Near-Field Wireless Optoelectronics as Subdermal Implants for Broad Applications in Optogenetics. <i>Neuron</i> , 2017 , 93, 509-521.e3	13.9	225
20	Preparation and implementation of optofluidic neural probes for in vivo wireless pharmacology and optogenetics. <i>Nature Protocols</i> , 2017 , 12, 219-237	18.8	44
19	Fully implantable, battery-free wireless optoelectronic devices for spinal optogenetics. <i>Pain</i> , 2017 , 158, 2108-2116	8	76
18	Ultrathin Injectable Sensors of Temperature, Thermal Conductivity, and Heat Capacity for Cardiac Ablation Monitoring. <i>Advanced Healthcare Materials</i> , 2016 , 5, 373-81	10.1	36
17	Stretchable multichannel antennas in soft wireless optoelectronic implants for optogenetics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E8169-E8177	11.5	84
16	Ultrathin Injectable Sensors: Ultrathin Injectable Sensors of Temperature, Thermal Conductivity, and Heat Capacity for Cardiac Ablation Monitoring (Adv. Healthcare Mater. 3/2016). <i>Advanced Healthcare Materials</i> , 2016 , 5, 394-394	10.1	
15	Wireless Optofluidic Systems for Programmable In Vivo Pharmacology and Optogenetics. <i>Cell</i> , 2015 , 162, 662-74	56.2	326
14	Soft materials in neuroengineering for hard problems in neuroscience. <i>Neuron</i> , 2015 , 86, 175-86	13.9	195
13	Optodynamic simulation of Adrenergic receptor signalling. <i>Nature Communications</i> , 2015 , 6, 8480	17.4	66
12	Ultraminiaturized photovoltaic and radio frequency powered optoelectronic systems for wireless optogenetics. <i>Journal of Neural Engineering</i> , 2015 , 12, 056002-56002	5	47
11	Distinct Subpopulations of Nucleus Accumbens Dynorphin Neurons Drive Aversion and Reward. <i>Neuron</i> , 2015 , 87, 1063-77	13.9	197
10	Soft, stretchable, fully implantable miniaturized optoelectronic systems for wireless optogenetics. <i>Nature Biotechnology</i> , 2015 , 33, 1280-1286	44.5	510
9	Temperature- and size-dependent characteristics in ultrathin inorganic light-emitting diodes assembled by transfer printing. <i>Applied Physics Letters</i> , 2014 , 104, 051901	3.4	30
8	Fabrication and application of flexible, multimodal light-emitting devices for wireless optogenetics. <i>Nature Protocols</i> , 2013 , 8, 2413-2428	18.8	142

7	Injectable, cellular-scale optoelectronics with applications for wireless optogenetics. <i>Science</i> , 2013 , 340, 211-6	33.3	832
6	Stretchable field-effect-transistor array of suspended SnO ₂ nanowires. <i>Small</i> , 2011 , 7, 1181-5	11	64
5	White-Light Emitting Diode Array of p ⁺ -Si/Aligned n-SnO ₂ Nanowires Heterojunctions. <i>Advanced Functional Materials</i> , 2011 , 21, 119-124	15.6	37
4	SnO ₂ nanowire logic devices on deformable nonplanar substrates. <i>ACS Nano</i> , 2011 , 5, 10009-16	16.7	28
3	Paraboloid electronic eye cameras using deformable arrays of photodetectors in hexagonal mesh layouts. <i>Applied Physics Letters</i> , 2010 , 96, 021110	3.4	47
2	Micromechanics and advanced designs for curved photodetector arrays in hemispherical electronic-eye cameras. <i>Small</i> , 2010 , 6, 851-6	11	84
1	Curvilinear electronics formed using silicon membrane circuits and elastomeric transfer elements. <i>Small</i> , 2009 , 5, 2703-9	11	186