

# Jaebin Choi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6390546/publications.pdf>

Version: 2024-02-01

20  
papers

282  
citations

933447

10  
h-index

1058476

14  
g-index

21  
all docs

21  
docs citations

21  
times ranked

476  
citing authors

#	ARTICLE	IF	CITATIONS
1	Field-Effect Biosensors for On-Site Detection: Recent Advances and Promising Targets. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700796.	7.6	44
2	Integrated Neurophotonics: Toward Dense Volumetric Interrogation of Brain Circuit Activity at Depth and in Real Time. <i>Neuron</i> , 2020, 108, 66-92.	8.1	40
3	Detection of Avian Influenza Virus from Cloacal Swabs Using a Disposable Well Gate FET Sensor. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700371.	7.6	28
4	Fully Packaged Portable Thin Film Biosensor for the Direct Detection of Highly Pathogenic Viruses from On-Site Samples. <i>ACS Nano</i> , 2019, 13, 812-820.	14.6	28
5	Matching the Power, Voltage, and Size of Biological Systems: A nW-Scale, 0.023- $\mu\text{m}^3$ Pulsed 33-GHz Radio Transmitter Operating From a 5 kT/q-Supply Voltage. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2015, 62, 1950-1958.	5.4	20
6	Highly Sensitive Color Tunability by Scalable Nanomorphology of a Dielectric Layer in Liquid-Permeable Metal-Insulator-Metal Structure. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 38581-38587.	8.0	17
7	A 512-Pixel, 51-kHz-Frame-Rate, Dual-Shank, Lens-Less, Filter-Less Single-Photon Avalanche Diode CMOS Neural Imaging Probe. <i>IEEE Journal of Solid-State Circuits</i> , 2019, 54, 2957-2968.	5.4	17
8	Observation of terahertz-radiation-induced ionization in a single nano island. <i>Scientific Reports</i> , 2015, 5, 10280.	3.3	15
9	Broadband characterization of charge carrier transfer of hybrid graphene-deoxyribonucleic acid junctions. <i>Carbon</i> , 2018, 130, 525-531.	10.3	15
10	Toward implantable devices for angle-sensitive, lens-less, multifluorescent, single-photon lifetime imaging in the brain using Fabry-Perot and absorptive color filters. <i>Light: Science and Applications</i> , 2022, 11, 24.	16.6	15
11	Artificial Rod and Cone Photoreceptors with Human-Like Spectral Sensitivities. <i>Advanced Materials</i> , 2018, 30, e1706764.	21.0	12
12	Fully Integrated Time-Gated 3D Fluorescence Imager for Deep Neural Imaging. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2020, 14, 636-645.	4.0	12
13	Enhanced nonlinear optical characteristics of copper-ion-doped double crossover DNAs. <i>Nanoscale</i> , 2015, 7, 18089-18095.	5.6	8
14	11.5 A 512-Pixel 3kHz-Frame-Rate Dual-Shank Lensless Filterless Single-Photon-Avalanche-Diode CMOS Neural Imaging Probe. , 2019, 2019, 198-200.		7
15	Fully Integrated Time-Gated 3D Fluorescence Imager for Deep Neural Imaging. , 2019, , .		2
16	A Microfluidic-Channel Regulated, Electrolyte-Gated Graphene FET Biosensor Array for Repeatable and Recalibrated Detection of Thrombin. <i>Biophysical Journal</i> , 2016, 110, 334a.	0.5	1
17	Matching the power density and potentials of biological systems: A 3.1-nW, 130-mV, 0.023- $\mu\text{m}^3$ pulsed 33-GHz radio transmitter in 32-nm SOI CMOS. , 2014, , .		0
18	Selective vapor detection of an integrated chemical sensor array. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0

#	ARTICLE	IF	CITATIONS
19	Differentiation of vapor mixture with chemical sensor arrays. , 2015, , .		0
20	Study on the electrical control of graphene with single-stranded DNA. , 2015, , .		0