

Jae-Ik Lee

List of Publications by Year in descending order

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papers

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840776

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26
times ranked

371
citing authors

#	ARTICLE	IF	CITATIONS
1	Aligned Carbon Nanotube Arrays for Degradation-Resistant, Intimate Contact in Micromechanical Devices. <i>Advanced Materials</i> , 2011, 23, 2231-2236.	21.0	59
2	A High-Efficiency DC-DC Boost Converter for a Miniaturized Microbial Fuel Cell. <i>IEEE Transactions on Power Electronics</i> , 2015, 30, 2041-2049.	7.9	45
3	Deformable Carbon Nanotube-Contact Pads for Inertial Microswitch to Extend Contact Time. <i>IEEE Transactions on Industrial Electronics</i> , 2012, 59, 4914-4920.	7.9	43
4	Optimal Electric Stimulus Amplitude Improves the Selectivity Between Responses of ON Versus OFF Types of Retinal Ganglion Cells. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019, 27, 2015-2024.	4.9	31
5	Polymer-based flexible and multi-directional tactile sensor with multiple NiCr piezoresistors. <i>Micro and Nano Systems Letters</i> , 2019, 7, .	3.7	26
6	Retinal Degeneration Reduces Consistency of Network-Mediated Responses Arising in Ganglion Cells to Electric Stimulation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 1921-1930.	4.9	22
7	Non-rectangular waveforms are more charge-efficient than rectangular one in eliciting network-mediated responses of ON type retinal ganglion cells. <i>Journal of Neural Engineering</i> , 2018, 15, 055004.	3.5	20
8	Thickness-, alignment- and defect-tunable growth of carbon nanotube arrays using designed mechanical loads. <i>Carbon</i> , 2014, 66, 126-133.	10.3	19
9	Development of MEMS Multi-Mode Electrostatic Energy Harvester Based on the SOI Process. <i>Micromachines</i> , 2017, 8, 51.	2.9	18
10	Multidirectional flexible force sensors based on confined, self-adjusting carbon nanotube arrays. <i>Nanotechnology</i> , 2018, 29, 055501.	2.6	17
11	Using Confined Self-Adjusting Carbon Nanotube Arrays as High-Sensitivity Displacement Sensing Element. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 10181-10187.	8.0	13
12	Resonant Frequency Tuning of Torsional Microscanner by Mechanical Restriction using MEMS Actuator. , 2009, , .		5
13	Highly sensitive cantilever type chemo-mechanical hydrogen sensor based on contact resistance of self-adjusted carbon nanotube arrays. <i>Sensors and Actuators B: Chemical</i> , 2014, 197, 414-421.	7.8	5
14	Microswitch with self-assembled carbon nanotube arrays for high current density and reliable contact. , 2011, , .		4
15	Network-mediated responses of ON ganglion cells to electric stimulation become less consistent across trials during retinal degeneration. , 2017, 2017, 2114-2117.		4
16	Micromachined Resonant Frequency Tuning Unit for Torsional Resonator. <i>Micromachines</i> , 2017, 8, 342.	2.9	4
17	Magnetic stimulation allows focal activation of the mouse cochlea. <i>ELife</i> , 0, 11, .	6.0	4
18	A novel accelerometer based on contact resistance of integrated carbon nanotubes. , 2011, , .		3

#	ARTICLE	IF	CITATIONS
19	Length controlled in-plane synthesis of aligned carbon nanotube array by micromechanical spring. , 2012, , .		2
20	Response Profiles of Retinal Ganglion Cells to Sinusoidal Electric Stimulation vary for Low vs. High Frequencies. , 2020, 2020, 3533-3536.		2
21	OFF Types of Mouse Retinal Ganglion Cells Are Less Sensitive To a Change in Electric Stimulus Charge Than ON Type *. , 2019, , .		1
22	Carbon Nanotubes: Integrated Carbon Nanotube Array as Dry Adhesive for High-Temperature Silicon Processing (Adv. Mater. 37/2011). Advanced Materials, 2011, 23, 4208-4208.	21.0	0
23	Continuously latchable shuttle using carbon nanotubes on sidewall surfaces. , 2012, , .		0
24	Neural Probe Utilizing Programmable Micro-coil Magnetic Stimulation. , 2021, , .		0