

Jin-Han Jeon

List of Publications by Year in descending order

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32
papers

1,616
citations

331670

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526287

27
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32
docs citations

32
times ranked

1880
citing authors

#	ARTICLE	IF	CITATIONS
1	Durable and Water-Floatable Ionic Polymer Actuator with Hydrophobic and Asymmetrically Laser-Scribed Reduced Graphene Oxide Paper Electrodes. <i>ACS Nano</i> , 2014, 8, 2986-2997.	14.6	199
2	Electro-active grapheneâ€Nafion actuators. <i>Carbon</i> , 2011, 49, 1279-1289.	10.3	187
3	Highâ€Fidelity Bioelectronic Muscular Actuator Based on Grapheneâ€Mediated and TEMPOâ€Oxidized Bacterial Cellulose. <i>Advanced Functional Materials</i> , 2015, 25, 3560-3570.	14.9	107
4	Dryâ€Type Artificial Muscles Based on Pendent Sulfonated Chitosan and Functionalized Graphene Oxide for Greatly Enhanced Ionic Interactions and Mechanical Stiffness. <i>Advanced Functional Materials</i> , 2013, 23, 6007-6018.	14.9	104
5	Synthesis of graphene nano-sheets using eco-friendly chemicals and microwave radiation. <i>Carbon</i> , 2010, 48, 2953-2957.	10.3	101
6	Novel biomimetic actuator based on SPEEK and PVDF. <i>Sensors and Actuators B: Chemical</i> , 2009, 143, 357-364.	7.8	90
7	Bacterial cellulose actuator with electrically driven bending deformation in hydrated condition. <i>Sensors and Actuators B: Chemical</i> , 2010, 146, 307-313.	7.8	88
8	Fabrication and actuation of ionic polymer metal composites patterned by combining electroplating with electroless plating. <i>Composites Part A: Applied Science and Manufacturing</i> , 2008, 39, 588-596.	7.6	82
9	Bioâ€Inspired Allâ€Organic Soft Actuator Based on a Iâ€Stacked 3D Ionic Network Membrane and Ultraâ€Fast Solution Processing. <i>Advanced Functional Materials</i> , 2014, 24, 6005-6015.	14.9	78
10	Electric-stimuli-responsive bending actuator based on sulfonated polyetherimide. <i>Sensors and Actuators B: Chemical</i> , 2010, 151, 198-204.	7.8	69
11	A soft biomolecule actuator based on a highly functionalized bacterial cellulose nano-fiber network with carboxylic acid groups. <i>Soft Matter</i> , 2016, 12, 246-254.	2.7	67
12	Active Disturbance Rejection Control for Precise Position Tracking of Ionic Polymerâ€Metal Composite Actuators. <i>IEEE/ASME Transactions on Mechatronics</i> , 2013, 18, 86-95.	5.8	63
13	Electro-active hybrid actuators based on freeze-dried bacterial cellulose and PEDOT:PSS. <i>Smart Materials and Structures</i> , 2013, 22, 085026.	3.5	61
14	Electroactive bio-composite actuators based on cellulose acetate nanofibers with specially chopped polyaniline nanoparticles through electrospinning. <i>Composites Science and Technology</i> , 2013, 87, 135-141.	7.8	55
15	An eco-friendly ultra-high performance ionic artificial muscle based on poly(2-acrylamido-2-methyl-1-propanesulfonic acid) and carboxylated bacterial cellulose. <i>Journal of Materials Chemistry B</i> , 2016, 4, 5015-5024.	5.8	40
16	Selective growth of platinum electrodes for MDOF IPMC actuators. <i>Thin Solid Films</i> , 2009, 517, 5288-5292.	1.8	38
17	Microwave extraction of graphene from carbon fibers. <i>Carbon</i> , 2011, 49, 222-226.	10.3	33
18	Snap-through dynamics of buckled IPMC actuator. <i>Sensors and Actuators A: Physical</i> , 2010, 158, 300-305.	4.1	29

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19	Electro-chemo-mechanical characteristics of fullerene-reinforced ionic polymer-metal composite transducers. <i>Smart Materials and Structures</i> , 2010, 19, 075009.	3.5	24
20	Electroactive Polymer Actuator Based on Sulfonated Polyimide with Highly Conductive Silver Electrodes Via Self-metallization. <i>Macromolecular Rapid Communications</i> , 2011, 32, 1583-1587.	3.9	23
21	Low voltage actuator using ionic polymer metal nanocomposites based on a miscible polymer blend. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19718-19727.	10.3	22
22	Well-aligned Nano-fibrous Membranes Based on Three-pole Electrospinning with Channel Electrode. <i>Macromolecular Rapid Communications</i> , 2011, 32, 921-926.	3.9	17
23	Transparent Flexible Polymer Actuator with Enhanced Output Force Enabled by Conductive Nanowires Interlayer. <i>Advanced Materials Technologies</i> , 2020, 5, 1900762.	5.8	15
24	How does clamping pressure influence actuation performance of soft ionic polymer-metal composites?. <i>Smart Materials and Structures</i> , 2013, 22, 025014.	3.5	13
25	Multiple electrode patterning of ionic polymer metal composite actuators. , 2006, , .		3
26	Dynamic Characteristics of Novel Ionic-Polymer-Metal-Composites. <i>Key Engineering Materials</i> , 2006, 321-323, 208-211.	0.4	3
27	Development of Bio-Mimetic Patterned IPMC Actuators with Multiple Electrodes. <i>Key Engineering Materials</i> , 2007, 334-335, 1005-1008.	0.4	2
28	Nonlinear dynamics of curved IPMC actuators undergoing electrically driven large deformations. <i>International Journal of Smart and Nano Materials</i> , 2012, 3, 214-225.	4.2	2
29	It's a PHAct. , 2018, , .		1
30	Snap-through dynamics of bi-stable IPMC actuator considering beam configuration. <i>Proceedings of SPIE</i> , 2009, , .	0.8	0
31	IPMCs as EAPs: Materials. , 2016, , 151-170.		0
32	IPMCs as EAPs: Materials. , 2016, , 1-20.		0