Janno Torop

List of Publications by Year
in descending order

29 papers	668 citations	759055 12 h-index	713332 21 g-index
29 all docs	29 docs citations	29 times ranked	650 citing authors

#	Article	IF	Citations
1	Flexible supercapacitor-like actuator with carbide-derived carbon electrodes. Carbon, 2011, 49, 3113-3119.	5.4	125
2	Nanoporous carbon-based electrodes for high strain ionomeric bending actuators. Smart Materials and Structures, 2009, 18, 095028.	1.8	72
3	Ionic electroactive polymer artificial muscles in space applications. Scientific Reports, 2014, 4, 6913.	1.6	64
4	Electroactive polymer actuators with carbon aerogel electrodes. Journal of Materials Chemistry, 2011, 21, 2577.	6.7	61
5	Nanoporous carbide-derived carbon based actuators modified with gold foil: Prospect for fast response and low voltage applications. Sensors and Actuators B: Chemical, 2012, 161, 629-634.	4.0	46
6	Nanoporous Carbide-Derived Carbon Material-Based Linear Actuators. Materials, 2010, 3, 9-25.	1.3	44
7	Safe innovation: On medical device legislation in Europe and Africa. Health Policy and Technology, 2018, 7, 156-165.	1.3	41
8	Novel actuators based on polypyrrole/carbide-derived carbon hybrid materials. Carbon, 2014, 80, 387-395.	5.4	40
9	Impact of carbon nanotube additives on carbide-derived carbon-based electroactive polymer actuators. Carbon, 2012, 50, 4351-4358.	5.4	38
10	Natural cellulose ionogels for soft artificial muscles. Colloids and Surfaces B: Biointerfaces, 2018, 161, 244-251.	2.5	25
11	Comparative Analysis of Fluorinated Anions for Polypyrrole Linear Actuator Electrolytes. Polymers, 2019, 11, 849.	2.0	25
12	Interpenetrated triple polymeric layer as electrochemomechanical actuator: Solvent influence and diffusion coefficient of counterions. Electrochimica Acta, 2017, 230, 461-469.	2.6	22
13	Carbide-derived carbon as active interlayer of polypyrrole tri-layer linear actuator. Sensors and Actuators B: Chemical, 2014, 201, 100-106.	4.0	14
14	Lifetime measurements of ionic electroactive polymer actuators. Journal of Intelligent Material Systems and Structures, 2014, 25, 2267-2275.	1.4	12
15	Microporous and Mesoporous Carbide-Derived Carbons for Strain Modification of Electromechanical Actuators. Langmuir, 2014, 30, 2583-2587.	1.6	12
16	Electrochemomechanical Behavior of Polypyrrole-Coated Nanofiber Scaffolds in Cell Culture Medium. Polymers, 2019, 11, 1043.	2.0	9
17	Low concentrated carbonaceous suspensions assisted with carboxymethyl cellulose as electrode for electrochemical flow capacitor. European Physical Journal E, 2019, 42, 8.	0.7	6
18	Carbon aerogel based electrode material for EAP actuators. , 2011, , .		4

#	Article	IF	Citations
19	Ionic polymer metal composites with nanoporous carbon electrodes. , 2010, , .		3
20	Optimization of Electrochemical Flow Capacitor (EFC) design via finite element modeling. Journal of Energy Storage, 2020, 29, 101304.	3.9	2
21	Low voltage linear actuators based on carbide-derived carbon powder. Proceedings of SPIE, 2009, , .	0.8	1
22	Electromechanical characteristics of actuators based on carbide-derived carbon. Proceedings of SPIE, 2010, , .	0.8	1
23	Particle Dynamics-Based Stochastic Modeling of Carbon Particle Charging in the Flow Capacitor Systems. Applied Sciences (Switzerland), 2022, 12, 1887.	1.3	1
24	Electrode Reactions in Cu-Pt Coated Nafion^{Â®} Actuators. Advances in Science and Technology, 0, , .	0.2	0
25	Ionic EAP transducers with amorphous nanoporous carbon electrodes. Proceedings of SPIE, 2012, , .	0.8	0
26	Low-voltage bending actuators from carbide-derived carbon improved with gold foil. , 2012, , .		0
27	Carbide-derived carbon (CDC) linear actuator properties in combination with conducting polymers. Proceedings of SPIE, 2014, , .	0.8	0
28	Electrochemically Driven Carbon-Based Materials as EAPs: Fundamentals and Device Configurations. , 2016, , 439-454.		0
29	Electrochemically Driven Carbon-Based Materials as EAPs: Fundamentals and Device Configurations. , 2016, , 1-16.		0