Karthik Krishnan

List of Publications by Year
in descending order

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19	464	840119 11	839053 18
papers	citations	h-index	g-index

19	19	19	541
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Selenium tethered copper phthalocyanine hierarchical aggregates as electrochemical hydrogen evolution catalysts. Sustainable Energy and Fuels, 2021, 5, 3617-3631.	2.5	2
2	Impact of moisture absorption on the resistive switching characteristics of a polyethylene oxide-based atomic switch. Journal of Materials Chemistry C, 2021, 9, 11198-11206.	2.7	6
3	Configurable switching behavior in polymer-based resistive memories by adopting unique electrode/electrolyte arrangement. RSC Advances, 2021, 11, 23400-23408.	1.7	7
4	Self-Assembled Polymer Thin Films Towards Nanoarchitectonics for Respiration Monitoring. Journal of Nanoscience and Nanotechnology, 2020, 20, 2893-2901.	0.9	7
5	Solid-Polymer-Electrolyte-Based Atomic Switches. Advances in Atom and Single Molecule Machines, 2020, , 139-159.	0.0	0
6	Ionic transport kinetics and enhanced energy storage in the electrode/poly(N-vinyl imidazole) interface for micro-supercapacitors. RSC Advances, 2020, 10, 45019-45027.	1.7	1
7	Significant roles of the polymer matrix in the resistive switching behavior of polymer-based atomic switches. Journal Physics D: Applied Physics, 2019, 52, 445301.	1.3	15
8	Nanoionic transport and electric double layer formation at the electrode/polymer interface for high-performance supercapacitors. Journal of Materials Chemistry A, 2018, 6, 23650-23658.	5.2	14
9	Thermally stable resistive switching of a polyvinyl alcohol-based atomic switch. Journal of Materials Chemistry C, 2018, 6, 6460-6464.	2.7	26
10	Highly Reproducible and Regulated Conductance Quantization in a Polymerâ€Based Atomic Switch. Advanced Functional Materials, 2017, 27, 1605104.	7.8	66
11	Effect of Casting Solvent on Interfacial Molecular Structure and Proton Transport Characteristics of Sulfonated Polyimide Thin Films. Analytical Sciences, 2017, 33, 35-39.	0.8	11
12	Quantized conductance operation near a single-atom point contact in a polymer-based atomic switch. Japanese Journal of Applied Physics, 2017, 56, 06GF02.	0.8	17
13	Kinetic factors determining conducting filament formation in solid polymer electrolyte based planar devices. Nanoscale, 2016, 8, 13976-13984.	2.8	42
14	Direct observation of anodic dissolution and filament growth behavior in polyethylene-oxide-based atomic switch structures. Japanese Journal of Applied Physics, 2016, 55, 06GK02.	0.8	11
15	Mechanism for Conducting Filament Growth in Selfâ€Assembled Polymer Thin Films for Redoxâ€Based Atomic Switches. Advanced Materials, 2016, 28, 640-648.	11.1	128
16	Effects of temperature and ambient pressure on the resistive switching behaviour of polymer-based atomic switches. Journal of Materials Chemistry C, 2015, 3, 5715-5720.	2.7	38
17	Influence of Molecular Weight on Molecular Ordering and Proton Transport in Organized Sulfonated Polyimide Thin Films. Journal of Physical Chemistry C, 2015, 119, 21767-21774.	1.5	20
18	Proton conductivity enhancement in oriented, sulfonated polyimide thin films. Journal of Materials Chemistry A, 2014, 2, 6895-6903.	5.2	41

#	Article	IF	Citations
19	Influence of Confined Polymer Structure on Proton Transport Property in Sulfonated Polyimide Thin Films. Electrochemistry, 2014, 82, 865-869.	0.6	12