

Karthik Krishnan

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9304245/publications.pdf>

Version: 2024-02-01

19
papers

464
citations

840119

11
h-index

839053

18
g-index

19
all docs

19
docs citations

19
times ranked

541
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism for Conducting Filament Growth in Self-Assembled Polymer Thin Films for Redox-Based Atomic Switches. <i>Advanced Materials</i> , 2016, 28, 640-648.	11.1	128
2	Highly Reproducible and Regulated Conductance Quantization in a Polymer-Based Atomic Switch. <i>Advanced Functional Materials</i> , 2017, 27, 1605104.	7.8	66
3	Kinetic factors determining conducting filament formation in solid polymer electrolyte based planar devices. <i>Nanoscale</i> , 2016, 8, 13976-13984.	2.8	42
4	Proton conductivity enhancement in oriented, sulfonated polyimide thin films. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6895-6903.	5.2	41
5	Effects of temperature and ambient pressure on the resistive switching behaviour of polymer-based atomic switches. <i>Journal of Materials Chemistry C</i> , 2015, 3, 5715-5720.	2.7	38
6	Thermally stable resistive switching of a polyvinyl alcohol-based atomic switch. <i>Journal of Materials Chemistry C</i> , 2018, 6, 6460-6464.	2.7	26
7	Influence of Molecular Weight on Molecular Ordering and Proton Transport in Organized Sulfonated Polyimide Thin Films. <i>Journal of Physical Chemistry C</i> , 2015, 119, 21767-21774.	1.5	20
8	Quantized conductance operation near a single-atom point contact in a polymer-based atomic switch. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 06GF02.	0.8	17
9	Significant roles of the polymer matrix in the resistive switching behavior of polymer-based atomic switches. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 445301.	1.3	15
10	Nanoionic transport and electric double layer formation at the electrode/polymer interface for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23650-23658.	5.2	14
11	Influence of Confined Polymer Structure on Proton Transport Property in Sulfonated Polyimide Thin Films. <i>Electrochemistry</i> , 2014, 82, 865-869.	0.6	12
12	Direct observation of anodic dissolution and filament growth behavior in polyethylene-oxide-based atomic switch structures. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 06GK02.	0.8	11
13	Effect of Casting Solvent on Interfacial Molecular Structure and Proton Transport Characteristics of Sulfonated Polyimide Thin Films. <i>Analytical Sciences</i> , 2017, 33, 35-39.	0.8	11
14	Self-Assembled Polymer Thin Films Towards Nanoarchitectonics for Respiration Monitoring. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 2893-2901.	0.9	7
15	Configurable switching behavior in polymer-based resistive memories by adopting unique electrode/electrolyte arrangement. <i>RSC Advances</i> , 2021, 11, 23400-23408.	1.7	7
16	Impact of moisture absorption on the resistive switching characteristics of a polyethylene oxide-based atomic switch. <i>Journal of Materials Chemistry C</i> , 2021, 9, 11198-11206.	2.7	6
17	Selenium tethered copper phthalocyanine hierarchical aggregates as electrochemical hydrogen evolution catalysts. <i>Sustainable Energy and Fuels</i> , 2021, 5, 3617-3631.	2.5	2
18	Ionic transport kinetics and enhanced energy storage in the electrode/poly(<i>N</i> -vinyl imidazole) interface for micro-supercapacitors. <i>RSC Advances</i> , 2020, 10, 45019-45027.	1.7	1

#	ARTICLE	IF	CITATIONS
19	Solid-Polymer-Electrolyte-Based Atomic Switches. <i>Advances in Atom and Single Molecule Machines</i> , 2020, , 139-159.	0.0	0