

Vishnu-Baba Sundaresan

List of Publications by Year in Descending Order

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Version: 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

25
papers

284
citations

10
h-index

16
g-index

34
ext. papers

357
ext. citations

6.2
avg, IF

3.22
L-index

#	Paper	IF	Citations
25	Surface-tracked scanning ion conductance microscopy: A novel imaging technique for measuring topography-correlated transmembrane ion transport through porous substrates. <i>Micron</i> , 2019 , 120, 57-65 ³	2.3	3
24	A structural model of ultra-microelectrodes for shear-force based scanning electrochemical microscopy. <i>Journal of Intelligent Material Systems and Structures</i> , 2018 , 29, 3562-3571	2.3	2
23	Dynamic characterization of elastico-mechanoluminescence towards structural health monitoring. <i>Journal of Intelligent Material Systems and Structures</i> , 2017 , 28, 2458-2464	2.3	16
22	Design and analysis of a synthetic jet actuator-based fluid atomization device. <i>Journal of Intelligent Material Systems and Structures</i> , 2017 , 28, 2307-2316	2.3	3
21	Topical tissue nano-transfection mediates non-viral stroma reprogramming and rescue. <i>Nature Nanotechnology</i> , 2017 , 12, 974-979	28.7	78
20	Mass and charge density effects on the saturation kinetics of polypyrrole doped with dodecylbenzene sulfonate. <i>Journal of Intelligent Material Systems and Structures</i> , 2017 , 28, 760-771	2.3	4
19	Nanoscale polypyrrole sensors for near-field electrochemical measurements. <i>Sensors and Actuators B: Chemical</i> , 2017 , 242, 1193-1200	8.5	5
18	Dynamic mechano-electrochemistry of polypyrrole membranes via shear-force tracking. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 17366-72	3.6	1
17	Ionic redox transistor from pore-spanning PPy(DBS) membranes. <i>Energy and Environmental Science</i> , 2016 , 9, 2555-2562	35.4	12
16	Polypyrrole-based amperometric cation sensor with tunable sensitivity. <i>Journal of Intelligent Material Systems and Structures</i> , 2016 , 27, 1702-1709	2.3	6
15	Polypyrrole membranes as scaffolds for biomolecule immobilization. <i>Smart Materials and Structures</i> , 2016 , 25, 125033	3.4	3
14	Development of an Android OS Based Controller of a Double Motor Propulsion System for Connected Electric Vehicles and Communication Delays Analysis. <i>Mathematical Problems in Engineering</i> , 2015 , 2015, 1-12	1.1	
13	Mechano-electrochemistry of PPy(DBS) from correlated characterization of electrochemical response and extensional strain. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 32268-75	3.6	15
12	Phospholipid vesicles as soft templates for electropolymerization of nanostructured polypyrrole membranes with long range order. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 11784	13	14
11	Self-Healing of Ionomeric Polymers with Carbon Fibers from Medium-Velocity Impact and Resistive Heating. <i>Smart Materials Research</i> , 2013 , 2013, 1-12		9
10	Fabrication and characterization of an integrated ionic device from suspended polypyrrole and alamethicin-reconstituted lipid bilayer membranes. <i>Smart Materials and Structures</i> , 2012 , 21, 094022	3.4	2
9	Conducting polymer supported bilayer lipid membrane reconstituted with alamethicin. <i>Smart Materials and Structures</i> , 2011 , 20, 094020	3.4	7

8	Chemoelectrical Energy Conversion of Adenosine Triphosphate using ATPases. <i>Journal of Intelligent Material Systems and Structures</i> , 2010 , 21, 201-212	2.3	6
7	Smart Self-Healing Material Systems Using Inductive and Resistive Heating. <i>ACS Symposium Series</i> , 2010 , 45-60	0.4	9
6	Modeling and characterization of a chemomechanical actuator using protein transporter. <i>Sensors and Actuators B: Chemical</i> , 2008 , 131, 384-393	8.5	24
5	Biological transport processes for microhydraulic actuation. <i>Sensors and Actuators B: Chemical</i> , 2007 , 123, 685-695	8.5	20
4	Controlled fluid transport using ATP-powered protein pumps. <i>Smart Materials and Structures</i> , 2007 , 16, S207-S213	3.4	10
3	Chemo-mechanical Model for Actuation Based on Biological Membranes*. <i>Journal of Intelligent Material Systems and Structures</i> , 2006 , 17, 863-870	2.3	16
2	Bioenergetics and mechanical actuation analysis with membrane transport experiments for use in biomimetic nastic structures. <i>Journal of Materials Research</i> , 2006 , 21, 2058-2067	2.5	17
1	Chemo-mechanical model of biological membranes for actuation mechanisms 2005 , 5761, 108		1