

John Ojur Dennis

List of Publications by Year in Descending Order

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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.

88
papers

764
citations

16
h-index

25
g-index

116
ext. papers

1,058
ext. citations

2.9
avg, IF

4.5
L-index

#	Paper	IF	Citations
88	Metal oxide nanotubes via electrodeposition for battery-electrochemical capacitor hybrid device. <i>Synthetic Metals</i> , 2022 , 284, 116991	3.6	1
87	A new approach to understanding the interaction effect of salt and plasticizer on solid polymer electrolytes using statistical model and artificial intelligence algorithm. <i>Journal of Non-Crystalline Solids</i> , 2022 , 587, 121597	3.9	2
86	Plasmonic Biosensors for the Detection of Lung Cancer Biomarkers: A Review. <i>Chemosensors</i> , 2021 , 9, 326	4	4
85	Temperature-Conductivity Relationship of Solid Polymer Electrolyte Membrane Based on PVA-K ₂ CO ₃ . <i>Springer Proceedings in Complexity</i> , 2021 , 383-391	0.3	
84	Cellulose Nanofibers from Palm Bio-waste as Separator Membrane for EDLC. <i>Springer Proceedings in Complexity</i> , 2021 , 453-461	0.3	
83	Design, modelling and testing of CMOS-MEMS switch. <i>Microsystem Technologies</i> , 2021 , 27, 2543-2552	1.7	
82	The solar reduction of graphene oxide on a large scale for high density electrochemical energy storage. <i>Sustainable Energy and Fuels</i> , 2021 , 5, 2724-2733	5.8	2
81	Investigation of Adsorption behaviour of Acetone Vapour towards a Surface Plasmon Resonance Sensing Layer using Adsorption Isotherm Models. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021 , 1092, 012054	0.4	
80	Template-assisted electrodeposited cupric oxide nanotubes and hierarchical nanospikes for tailoring electrode-electrolyte interfacial charge transfer. <i>Ceramics International</i> , 2021 ,	5.1	1
79	Activated carbon from composite of palm bio-waste as electrode material for solid-state electric double layer capacitor. <i>Journal of Energy Storage</i> , 2021 , 42, 103087	7.8	6
78	A Review of Actuation and Sensing Mechanisms in MEMS-Based Sensor Devices. <i>Nanoscale Research Letters</i> , 2021 , 16, 16	5	40
77	Preparation and characterization of gel polymer electrolyte based on PVA-K ₂ CO ₃ . <i>Polymer-Plastics Technology and Materials</i> , 2020 , 59, 1679-1697	1.5	2
76	Effect of Particle Size on the Physical Properties of Activated Palm Kernel Shell for Supercapacitor Application. <i>Key Engineering Materials</i> , 2020 , 833, 129-133	0.4	2
75	A Review of Carbon Nanotubes Field Effect-Based Biosensors. <i>IEEE Access</i> , 2020 , 8, 69509-69521	3.5	22
74	Optimization of the Electrochemical Performance of a Composite Polymer Electrolyte Based on PVA-KCO-SiO Composite. <i>Polymers</i> , 2020 , 13,	4.5	8
73	Characterization of MEMS comb capacitor. <i>Microsystem Technologies</i> , 2020 , 26, 1387-1392	1.7	0
72	Structural characterization and optical constants of p-toluene sulfonic acid doped polyaniline and its composites of chitosan and reduced graphene-oxide. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 1468-1476	5.5	14

71	Physical reduction of graphene oxide for supercapacitive charge storage. <i>Journal of Alloys and Compounds</i> , 2020 , 822, 153636	5.7	25
70	Dependence of the Optical Constant Parameters of p-Toluene Sulfonic Acid-Doped Polyaniline and Its Composites on Dispersion Solvents. <i>Molecules</i> , 2020 , 25,	4.8	2
69	Investigation of Acetone Vapour Sensing Properties of a Ternary Composite of Doped Polyaniline, Reduced Graphene Oxide and Chitosan Using Surface Plasmon Resonance Biosensor. <i>Polymers</i> , 2020 , 12,	4.5	6
68	State of the Art and New Directions on Electrospun Lignin/Cellulose Nanofibers for Supercapacitor Application: A Systematic Literature Review. <i>Polymers</i> , 2020 , 12,	4.5	18
67	Acetone Vapor-Sensing Properties of Chitosan-Polyethylene Glycol Using Surface Plasmon Resonance Technique. <i>Polymers</i> , 2020 , 12,	4.5	3
66	Synthesis and characterisation of a ternary composite of polyaniline, reduced graphene-oxide and chitosan with reduced optical band gap and stable aqueous dispersibility. <i>Results in Physics</i> , 2019 , 15, 102690	3.7	27
65	A review of technical advances of recent palm bio-waste conversion to activated carbon for energy storage. <i>Journal of Cleaner Production</i> , 2019 , 229, 1427-1442	10.3	76
64	Comparative analysis of physiochemical properties of physically activated carbon from palm bio-waste. <i>Journal of Materials Research and Technology</i> , 2019 , 8, 3688-3695	5.5	24
63	Enhanced Sensitivity of Surface Plasmon Resonance Biosensor Functionalized with Doped Polyaniline Composites for the Detection of Low-Concentration Acetone Vapour. <i>Journal of Sensors</i> , 2019 , 2019, 1-13	2	18
62	A Review of Biosensors for Non-Invasive Diabetes Monitoring and Screening in Human Exhaled Breath. <i>IEEE Access</i> , 2019 , 7, 5963-5974	3.5	32
61	Synthesis and characterization of cellulose and hydroxyapatite-carbon electrode composite for trace plumbum ions detection and its validation in blood serum. <i>International Journal of Biological Macromolecules</i> , 2018 , 113, 376-385	7.9	12
60	Development of a surface plasmon resonance acetone sensor for noninvasive screening and monitoring of diabetes. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 383, 012024	0.4	2
59	Optimization of Nickel Nano Structure Deposition in Alumina Template and Its Utilization as Supercapacitor Electrode. <i>Journal of Physics: Conference Series</i> , 2018 , 1123, 012021	0.3	
58	Design and Simulation of a Miniaturized RF-MEMS Reconfigurable Microstrip Combine Band Pass Filter. <i>Journal of Physics: Conference Series</i> , 2018 , 1123, 012006	0.3	0
57	Design of tunable interdigital capacitor. <i>Journal of Physics: Conference Series</i> , 2018 , 1123, 012008	0.3	
56	Characterization of Micro-heater and Temperature Sensor in Micro-electromechanical System Device for Gas Detection 2018 ,		1
55	Modelling and simulation of surface plasmon resonance breathe acetone sensor based on doped polyaniline-graphene composite. <i>Journal of Physics: Conference Series</i> , 2018 , 1123, 012020	0.3	1
54	MEMS-Based Acetone Vapor Sensor for Non-Invasive Screening of Diabetes. <i>IEEE Sensors Journal</i> , 2018 , 18, 9486-9500	4	21

53	Critical influence of reduced graphene oxide mediated binding of M (M = Mg, Mn) with Co ions, chemical stability and charge storability enhancements of spinal-type hierarchical MCo ₂ O ₄ nanostructures. <i>Electrochimica Acta</i> , 2017 , 243, 119-128	6.7	47
52	Experimental analysis of out-of-plane Lorentz force actuated magnetic field sensor. <i>IEICE Electronics Express</i> , 2017 , 14, 20161257-20161257	0.5	2
51	Pseudocapacitive Charge Storage in Single-Step-Synthesized CoO/MnO ₂ /MnCo ₂ O ₄ Hybrid Nanowires in Aqueous Alkaline Electrolytes. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 21171-21183	3.8	58
50	Large scale synthesis of binary composite nanowires in the Mn ₂ O ₃ -SnO ₂ system with improved charge storage capabilities. <i>Chemical Engineering Journal</i> , 2017 , 327, 962-972	14.7	41
49	MetalMUMPs resonator for acetone vapor sensing 2017 ,		2
48	Effects of frequency and voltage on the output of CMOS-MEMS device 2017 ,		2
47	Post micromachining of MPW based CMOS/MEMS comb resonator and its mechanical and thermal characterization. <i>Microsystem Technologies</i> , 2016 , 22, 2909-2919	1.7	6
46	Optical and capacitive characterization of MEMS magnetic resonator. <i>IEICE Electronics Express</i> , 2016 , 13, 20160773-20160773	0.5	1
45	Modeling and Finite Element Analysis Simulation of MEMS Based Acetone Vapor Sensor for Noninvasive Screening of Diabetes. <i>Journal of Sensors</i> , 2016 , 2016, 1-14	2	9
44	RF-MEMS tunable interdigitated capacitor and fixed spiral inductor for band pass filter applications 2016 ,		1
43	Characterization of PolyMUMPs-based in-plane electromagnetic actuator 2016 ,		1
42	Characterization of embedded microheater of a CMOS/MEMS gravimetric sensor device. <i>Microelectronics Journal</i> , 2016 , 55, 179-188	1.8	2
41	Review on Exhaled Hydrogen Peroxide as a Potential Biomarker for Diagnosis of Inflammatory Lung Diseases. <i>Journal of Biomimetics, Biomaterials and Biomedical Engineering</i> , 2015 , 22, 77-87	0.6	3
40	MEMS 3-DoF gyroscope design, modeling and simulation through equivalent circuit lumped parameter model 2015 ,		1
39	Fabrication and Characterization of a CMOS-MEMS Humidity Sensor. <i>Sensors</i> , 2015 , 15, 16674-87	3.8	23
38	Optical Characterization of Lorentz Force Based CMOS-MEMS Magnetic Field Sensor. <i>Sensors</i> , 2015 , 15, 18256-69	3.8	10
37	Modelling and Simulation of Polysilicon Piezoresistors in CMOS-MEMS Resonator for Biomarker Detection in Exhaled Breath 2015 ,		3
36	A monolithic, low-noise, capacitive readout interface circuit for CMOS-MEMS resonator-based gravimetric chemical gas sensors 2015 ,		1

35	2015,		2
34	Characterization of CMOS-MEMS device for acetone vapor detection in exhaled breath 2015,		2
33	Design and characterization of embedded microheater on CMOS-MEMS resonator for application in mass-sensitive gas sensors 2014,		1
32	A CMOS-MEMS cantilever sensor for capnometric applications. <i>IEICE Electronics Express</i> , 2014 , 11, 20140113-20140113	0.3	1
31	Bismuth-Modified Hydroxyapatite Carbon Electrode for Heavy Metal Detection in Biomatrices. <i>Applied Mechanics and Materials</i> , 2014 , 625, 813-817	0.3	2
30	Design, modeling and simulation of CMOS-MEMS resonator for biomedical application 2014,		6
29	Screen-Printed Carbon Electrodes for the Detection of Boldenone. <i>Applied Mechanics and Materials</i> , 2014 , 625, 809-812	0.3	
28	Improved energy harvesting from low frequency vibrations by resonance amplification at multiple frequencies. <i>Sensors and Actuators A: Physical</i> , 2013 , 195, 123-132	3.9	44
27	Design and modeling of the trapezoidal electrodes array for electrets energy harvester 2013,		2
26	Mass detection using a macro-scale piezoelectric bimorph cantilever 2013,		4
25	Analytical modeling and simulation of a CMOS-MEMS cantilever based CO2 sensor for medical applications 2013,		3
24	A wideband, frequency up-converting bounded vibration energy harvester for a low-frequency environment. <i>Smart Materials and Structures</i> , 2013 , 22, 025018	3.4	37
23	Design and Modeling of a CMOS MEMS Gravimetric Sensor. <i>Applied Mechanics and Materials</i> , 2013 , 446-447, 1073-1077	0.3	
22	Fabrication and characterization of the electrets material for electrostatic energy harvester. <i>Journal of Physics: Conference Series</i> , 2013 , 476, 012120	0.3	1
21	Chopper Stabilized, Low-Power, Low-Noise, Front End Interface Circuit for Capacitive CMOS MEMS Sensor Applications. <i>Modern Applied Science</i> , 2013 , 7,	1.3	3
20	Frequency dependence of average power in vibration energy harvesting 2012,		2
19	Simulation and modeling the effect of temperature on resonant frequency of a CMOS-MEMS resonator 2012,		2
18	Calibration of Helmholtz Coils for the characterization of MEMS magnetic sensor using fluxgate magnetometer with DAS1 magnetic range data acquisition system 2012,		1

17	Design and simulation of mass-sensitive gas sensor based on CMOS-MEMS resonator 2012 ,		2
16	Modeling and microfabrication of a CMOS resonator for magnetic field measurement 2012 ,		1
15	Theoretical analysis of resonant lateral electrostatic Comb drive actuator and sensor 2011 ,		2
14	Analysis of frequency up-conversion based vibration energy harvesting 2011 ,		4
13	Energy harvesting in a low frequency environment 2011 ,		6
12	Analytical modeling of plus shape MEMS paddle bridge resonant sensor for weak magnetic fields 2011 ,		2
11	Characterization and simulation of optimized micro paddle bridge resonator for magnetic field measurements 2011 ,		2
10	Analytical modeling of mass-sensitive gas sensor based on MEMS resonator 2011 ,		1
9	A CMOS MEMS Resonant Magnetic Field Sensor with Differential Electrostatic Actuation and Capacitive Sensing. <i>Advanced Materials Research</i> , 2011 , 403-408, 4205-4209	0.5	2
8	An Electromagnetic Frequency Increased Vibration Energy Harvester. <i>Advanced Materials Research</i> , 2011 , 403-408, 4231-4234	0.5	1
7	Piezoresistive Pressure Sensor Design, Simulation and Modification using Coventor Ware Software. <i>Journal of Applied Sciences</i> , 2011 , 11, 1426-1430	0.3	6
6	Design, simulation, modeling and characterization of micromachined microcantilever using coventorware software 2010 ,		1
5	Design and modeling of MEMS resonator for magnetic field sensing using hybrid actuation technique 2010 ,		7
4	Modeling and characterization of electrostatically actuated CMOS-MEMS Resonator for magnetic field sensing 2010 ,		2
3	Design and simulation of mechanical behavior of MEMS-based resonant magnetic field sensor with piezoresistive output 2010 ,		2
2	Design and simulation of a high temperature MEMS micro-hotplate for application in trace gas detection 2008 ,		5
1	Novel electrospun separator-electrolyte based on PVA-K ₂ CO ₃ -SiO ₂ -cellulose nanofiber for application in flexible energy storage devices. <i>Journal of Applied Polymer Science</i> , 52308	2.9	1