

John Ojur Dennis

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4545056/john-ojur-dennis-publications-by-citations.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
87	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
86	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
85	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
84	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
83	A Review of Actuation and Sensing Mechanisms in MEMS-Based Sensor Devices. <i>Nanoscale Research Letters</i> , 2021 , 16, 16	5	40
82	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
81	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
80	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
79	Physical reduction of graphene oxide for supercapacitive charge storage. <i>Journal of Alloys and Compounds</i> , 2020 , 822, 153636	5.7	25
78	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
77	Fabrication and Characterization of a CMOS-MEMS Humidity Sensor. <i>Sensors</i> , 2015 , 15, 16674-87	3.8	23
76	A Review of Carbon Nanotubes Field Effect-Based Biosensors. <i>IEEE Access</i> , 2020 , 8, 69509-69521	3.5	22
75	MEMS-Based Acetone Vapor Sensor for Non-Invasive Screening of Diabetes. <i>IEEE Sensors Journal</i> , 2018 , 18, 9486-9500	4	21
74	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
73	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
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	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
70	Optical Characterization of Lorentz Force Based CMOS-MEMS Magnetic Field Sensor. <i>Sensors</i> , 2015 , 15, 18256-69	3.8	10
69	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
68	Optimization of the Electrochemical Performance of a Composite Polymer Electrolyte Based on PVA-KCO-SiO Composite. <i>Polymers</i> , 2020 , 13,	4.5	8
67	Design and modeling of MEMS resonator for magnetic field sensing using hybrid actuation technique 2010 ,		7
66	Post micromachining of MPW based CMOSMEMS comb resonator and its mechanical and thermal characterization. <i>Microsystem Technologies</i> , 2016 , 22, 2909-2919	1.7	6
65	Design, modeling and simulation of CMOS-MEMS resonator for biomedical application 2014 ,		6
64	Energy harvesting in a low frequency environment 2011 ,		6
63	Piezoresistive Pressure Sensor Design, Simulation and Modification using Coventor Ware Software. <i>Journal of Applied Sciences</i> , 2011 , 11, 1426-1430	0.3	6
62	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
61	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
60	Design and simulation of a high temperature MEMS micro-hotplate for application in trace gas detection 2008 ,		5
59	A CMOS-MEMS cantilever sensor for capnometric applications. <i>IEICE Electronics Express</i> , 2014 , 11, 20140113-20140113	0.13	4
58	Mass detection using a macro-scale piezoelectric bimorph cantilever 2013 ,		4
57	Analysis of frequency up-conversion based vibration energy harvesting 2011 ,		4
56	Plasmonic Biosensors for the Detection of Lung Cancer Biomarkers: A Review. <i>Chemosensors</i> , 2021 , 9, 326	4	4
55	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
54	Analytical modeling and simulation of a CMOS-MEMS cantilever based CO2 sensor for medical applications 2013 ,		3

53	Modelling and Simulation of Polysilicon Piezoresistors in CMOS-MEMS Resonator for Biomarker Detection in Exhaled Breath 2015 ,		3
52	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
51	Acetone Vapor-Sensing Properties of Chitosan-Polyethylene Glycol Using Surface Plasmon Resonance Technique. <i>Polymers</i> , 2020 , 12,	4.5	3
50	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
49	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
48	Experimental analysis of out-of-plane Lorentz force actuated magnetic field sensor. <i>IEICE Electronics Express</i> , 2017 , 14, 20161257-20161257	0.5	2
47	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
46	Design and modeling of the trapezoidal electrodes array for electrets energy harvester 2013 ,		2
45	MetalMUMPs resonator for acetone vapor sensing 2017 ,		2
44	Effects of frequency and voltage on the output of CMOS-MEMS device 2017 ,		2
43	2015 ,		2
42	Characterization of CMOS-MEMS device for acetone vapor detection in exhaled breath 2015 ,		2
41	Bismuth-Modified Hydroxyapatite Carbon Electrode for Heavy Metal Detection in Biomatrices. <i>Applied Mechanics and Materials</i> , 2014 , 625, 813-817	0.3	2
40	Frequency dependence of average power in vibration energy harvesting 2012 ,		2
39	Theoretical analysis of resonant lateral electrostatic Comb drive actuator and sensor 2011 ,		2
38	Modeling and characterization of electrostatically actuated CMOS-MEMS Resonator for magnetic field sensing 2010 ,		2
37	Design and simulation of mechanical behavior of MEMS-based resonant magnetic field sensor with piezoresistive output 2010 ,		2
36	Analytical modeling of plus shape MEMS paddle bridge resonant sensor for weak magnetic fields 2011 ,		2

35	Characterization and simulation of optimized micro paddle bridge resonator for magnetic field measurements 2011 ,		2
34	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
33	Simulation and modeling the effect of temperature on resonant frequency of a CMOS-MEMS resonator 2012 ,		2
32	Design and simulation of mass-sensitive gas sensor based on CMOS-MEMS resonator 2012 ,		2
31	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
30	Characterization of embedded microheater of a CMOSMEMS gravimetric sensor device. <i>Microelectronics Journal</i> , 2016 , 55, 179-188	1.8	2
29	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
28	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
27	Optical and capacitive characterization of MEMS magnetic resonator. <i>IEICE Electronics Express</i> , 2016 , 13, 20160773-20160773	0.5	1
26	Design and characterization of embedded microheater on CMOS-MEMS resonator for application in mass-sensitive gas sensors 2014 ,		1
25	MEMS 3-DoF gyroscope design, modeling and simulation through equivalent circuit lumped parameter model 2015 ,		1
24	A monolithic, low-noise, capacitive readout interface circuit for CMOS-MEMS resonator-based gravimetric chemical gas sensors 2015 ,		1
23	Fabrication and characterization of the electrets material for electrostatic energy harvester. <i>Journal of Physics: Conference Series</i> , 2013 , 476, 012120	0.3	1
22	Design, simulation, modeling and characterization of micromachined microcantilever using coventorware software 2010 ,		1
21	Analytical modeling of mass-sensitive gas sensor based on MEMS resonator 2011 ,		1
20	An Electromagnetic Frequency Increased Vibration Energy Harvester. <i>Advanced Materials Research</i> , 2011 , 403-408, 4231-4234	0.5	1
19	Calibration of Helmholtz Coils for the characterization of MEMS magnetic sensor using fluxgate magnetometer with DAS1 magnetic range data acquisition system 2012 ,		1
18	Modeling and microfabrication of a CMOS resonator for magnetic field measurement 2012 ,		1

17	Metal oxide nanotubes via electrodeposition for battery-electrochemical capacitor hybrid device. <i>Synthetic Metals</i> , 2022 , 284, 116991	3.6	1
16	RF-MEMS tunable interdigitated capacitor and fixed spiral inductor for band pass filter applications 2016 ,		1
15	Characterization of PolyMUMPs-based in-plane electromagnetic actuator 2016 ,		1
14	Characterization of Micro-heater and Temperature Sensor in Micro-electromechanical System Device for Gas Detection 2018 ,		1
13	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
12	Template-assisted electrodeposited cupric oxide nanotubes and hierarchical nanospikes for tailoring electrode-electrolyte interfacial charge transfer. <i>Ceramics International</i> , 2021 ,	5.1	1
11	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
10	Characterization of MEMS comb capacitor. <i>Microsystem Technologies</i> , 2020 , 26, 1387-1392	1.7	0
9	Design and Simulation of a Miniaturized RF-MEMS Reconfigurable Microstrip Compline Band Pass Filter. <i>Journal of Physics: Conference Series</i> , 2018 , 1123, 012006	0.3	0
8	Screen-Printed Carbon Electrodes for the Detection of Boldenone. <i>Applied Mechanics and Materials</i> , 2014 , 625, 809-812	0.3	
7	Design and Modeling of a CMOS MEMS Gravimetric Sensor. <i>Applied Mechanics and Materials</i> , 2013 , 446-447, 1073-1077	0.3	
6	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	
5	Cellulose Nanofibers from Palm Bio-waste as Separator Membrane for EDLC. <i>Springer Proceedings in Complexity</i> , 2021 , 453-461	0.3	
4	Design, modelling and testing of CMOS-MEMS switch. <i>Microsystem Technologies</i> , 2021 , 27, 2543-2552	1.7	
3	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	
2	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	
1	Design of tunable interdigital capacitor. <i>Journal of Physics: Conference Series</i> , 2018 , 1123, 012008	0.3	