

Ezzat G Bakhoum

List of Publications by Year in descending order

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52
papers

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687363

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g-index

53
all docs

53
docs citations

53
times ranked

562
citing authors

#	ARTICLE	IF	CITATIONS
1	Controller Synthesis of Tracking and Synchronization for Multiaxis Motion System. IEEE Transactions on Control Systems Technology, 2014, 22, 378-386.	5.2	68
2	Capacitive Pressure Sensor With Very Large Dynamic Range. IEEE Transactions on Components and Packaging Technologies, 2010, 33, 79-83.	1.3	57
3	High-Sensitivity Inductive Pressure Sensor. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 2960-2966.	4.7	42
4	Closed-form solution of hyperbolic geolocation equations. IEEE Transactions on Aerospace and Electronic Systems, 2006, 42, 1396-1404.	4.7	39
5	Mathematical Transform of Traveling-Wave Equations and Phase Aspects of Quantum Interaction. Mathematical Problems in Engineering, 2010, 2010, 1-15.	1.1	37
6	Specific Mathematical Aspects of Dynamics Generated by Coherence Functions. Mathematical Problems in Engineering, 2011, 2011, 1-10.	1.1	33
7	Dynamical Aspects of Macroscopic and Quantum Transitions due to Coherence Function and Time Series Events. Mathematical Problems in Engineering, 2010, 2010, 1-13.	1.1	31
8	Novel Capacitive Pressure Sensor. Journal of Microelectromechanical Systems, 2010, 19, 443-450.	2.5	30
9	High-Sensitivity Miniature Smoke Detector. IEEE Sensors Journal, 2012, 12, 3031-3035.	4.7	18
10	Ultrahigh-Sensitivity Pressure and Vibration Sensor. IEEE Sensors Journal, 2011, 11, 3288-3294.	4.7	17
11	Relativistic Short Range Phenomena and Space-Time Aspects of Pulse Measurements. Mathematical Problems in Engineering, 2008, 2008, 1-20.	1.1	13
12	Miniature Carbon Monoxide Detector Based on Nanotechnology. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 240-245.	4.7	13
13	Transient Aspects of Wave Propagation Connected with Spatial Coherence. Mathematical Problems in Engineering, 2013, 2013, 1-5.	1.1	13
14	Low-Cost, High-Accuracy Method and Apparatus for Detecting Meat Spoilage. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 1707-1715.	4.7	12
15	Novel Electret Microphone. IEEE Sensors Journal, 2011, 11, 988-994.	4.7	10
16	High-Accuracy Miniature Dew Point Sensor and Instrument. IEEE Sensors Journal, 2015, 15, 1482-1488.	4.7	10
17	Electrophoretic coating of carbon nanotubes for high energy-density capacitor applications. Journal of Applied Physics, 2009, 105, 104314.	2.5	9
18	Miniature Moisture Sensor Based on Ultracapacitor Technology. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2012, 2, 1151-1157.	2.5	9

#	ARTICLE	IF	CITATIONS
19	Frequency-Selective Seismic Sensor. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 823-829.	4.7	9
20	Real Time Measurement of Airplane Flutter via Distributed Acoustic Sensing. Aerospace, 2020, 7, 125.	2.2	9
21	Proof of Thomson's theorem of electrostatics. Journal of Electrostatics, 2008, 66, 561-563.	1.9	8
22	Fundamental Disagreement of Wave Mechanics with Relativity. Physics Essays, 2002, 15, 87-100.	0.4	7
23	$\{m S\}$ -Parameters Model for Data Communications Over 3-Phase Transmission Lines. IEEE Transactions on Smart Grid, 2011, 2, 615-623.	9.0	7
24	Third-generation GPS: A low-maintenance, high-reliability future GPS system. International Journal of Communication Systems, 2010, 23, 1431-1442.	2.5	6
25	Animating an equation: a guide to using FLASH in mathematics education. International Journal of Mathematical Education in Science and Technology, 2008, 39, 637-655.	1.4	5
26	Modeling Transitions in Complex Systems by Multiplicative Effect of Temporal Patterns Extracted from Signal Flows. Mathematical Problems in Engineering, 2012, 2012, 1-11.	1.1	5
27	Tunable Ultracapacitor. IEEE Transactions on Industrial Electronics, 2013, 60, 5613-5619.	7.9	5
28	Ultraminiature Angular Position Sensor Based on the Beta-Voltaic Principle. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 533-540.	4.7	4
29	3-Axis, Ultrahigh-Sensitivity, Miniature Acceleration Sensor. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2018, 8, 244-250.	2.5	4
30	On the Equation $\hbar^2 = \hbar^2 v^2$ and the Fine Structure of the Hydrogen Atom. Physics Essays, 2002, 15, 439-443.	0.4	4
31	Novel Technique for Precision Soldering Based on Laser-Activated Gold Nanoparticles. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2015, 5, 852-858.	2.5	3
32	Controller synthesis for assistive robotic device using twisted-string actuation. , 2015, , .		3
33	Experiment for teaching a fundamental principle in electrostatics. Journal of Electrostatics, 2010, 68, 249-253.	1.9	2
34	Novel electric micromotor for consumer electronics applications. IEEE Transactions on Consumer Electronics, 2012, 58, 1103-1109.	3.6	2
35	Electrodynamics and the Mass-Energy Equivalence Principle.. Physics Essays, 2006, 19, 305-313.	0.4	2
36	The Geometric Solution of Laplace's Equation. Journal of Computational Physics, 1996, 123, 274-295.	3.8	1

#	ARTICLE	IF	CITATIONS
37	Novel miniature electrostatic generator. Review of Scientific Instruments, 2008, 79, 015103.	1.3	1
38	Very Small Scale Electrostatic-Confinement Fusion Apparatus. IEEE Transactions on Plasma Science, 2009, 37, 2090-2097.	1.3	1
39	New reflections on electron's energy and wave function in the hydrogen atom. Physics Essays, 2010, 23, 618-620.	0.4	1
40	Gaussian Curvature in Propagation Problems in Physics and Engineering. Mathematical Problems in Engineering, 2012, 2012, 1-10.	1.1	1
41	Propagation Phenomena and Transitions in Complex Systems: Efficient Mathematical Models. Mathematical Problems in Engineering, 2012, 2012, 1-3.	1.1	1
42	MEMS Acceleration Sensor With Large Dynamic Range and High Sensitivity. Journal of Microelectromechanical Systems, 2012, 21, 1043-1048.	2.5	1
43	Solid State Magnetic Field Sensor With Zero Power Consumption. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2014, 4, 86-93.	2.5	1
44	Alpha-Particle-Based Icing Detector for Aircraft. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 185-191.	4.7	1
45	Alternating Coordinate-Momentum Representation for Quantum States Based on Bopp Operators for Modelling Long-Distance Coherence Aspects. Mathematical Problems in Engineering, 2015, 2015, 1-7.	1.1	1
46	Generalized formula for the first derivative of the electric-field intensity. Physical Review E, 1993, 47, 3682-3685.	2.1	0
47	Comment on "Implementation of a Web-Based Educational Tool for Digital Signal Processing Teaching Using the Technological Acceptance Model. IEEE Transactions on Education, 2006, 49, 474-474.	2.4	0
48	On the role of transistors in OpAmp feedback paths. International Journal of Electronics, 2009, 96, 43-49.	1.4	0
49	Experimental demonstration that voltage is a measure of energy. , 2009, , .		0
50	Propagation Phenomena and Transitions in Complex Systems 2012. Mathematical Problems in Engineering, 2012, 2012, 1-3.	1.1	0
51	Precision Repair of Defective Soldering Joints with Gold Nanoparticles and a Low-Power Laser: Tackling a very old problem with new technology.. IEEE Nanotechnology Magazine, 2016, 10, 25-27.	1.3	0
52	MEMS-Scale Angular Position Sensor Based on Ultracapacitor Technology. Journal of Microelectromechanical Systems, 2022, 31, 298-304.	2.5	0