

Farid Touati

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2152809/farid-touati-publications-by-citations.pdf>

Version: 2024-04-25

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.

110
papers

1,373
citations

20
h-index

32
g-index

131
ext. papers

1,700
ext. citations

3.3
avg, IF

5.08
L-index

#	Paper	IF	Citations
110	u-Healthcare system: state-of-the-art review and challenges. <i>Journal of Medical Systems</i> , 2013 , 37, 9949	5.1	119
109	A Modular IoT Platform for Real-Time Indoor Air Quality Monitoring. <i>Sensors</i> , 2018 , 18,	3.8	77
108	Ultrahigh Aspect Ratio Copper-Nanowire-Based Hybrid Transparent Conductive Electrodes with PEDOT:PSS and Reduced Graphene Oxide Exhibiting Reduced Surface Roughness and Improved Stability. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 16223-30	9.5	74
107	Investigation of solar PV performance under Doha weather using a customized measurement and monitoring system. <i>Renewable Energy</i> , 2016 , 89, 564-577	8.1	65
106	A simple method for extracting the parameters of the PV cell single-diode model. <i>Renewable Energy</i> , 2017 , 113, 885-894	8.1	53
105	On the Effects of Combined Atmospheric Fading and Misalignment on the Hybrid FSO/RF Transmission. <i>Journal of Optical Communications and Networking</i> , 2016 , 8, 715	4.1	53
104	PLA-TiO ₂ nanocomposites: Thermal, morphological, structural, and humidity sensing properties. <i>Ceramics International</i> , 2018 , 44, 16507-16513	5.1	51
103	Machine Learning Based Photovoltaics (PV) Power Prediction Using Different Environmental Parameters of Qatar. <i>Energies</i> , 2019 , 12, 2782	3.1	49
102	Study of the Effects of Dust, Relative Humidity, and Temperature on Solar PV Performance in Doha: Comparison Between Monocrystalline and Amorphous PVS. <i>International Journal of Green Energy</i> , 2013 , 10, 680-689	3	46
101	Long-term performance analysis and power prediction of PV technology in the State of Qatar. <i>Renewable Energy</i> , 2017 , 113, 952-965	8.1	34
100	A fuzzy logic based irrigation system enhanced with wireless data logging applied to the state of Qatar. <i>Computers and Electronics in Agriculture</i> , 2013 , 98, 233-241	6.5	31
99	Towards understanding the effects of climatic and environmental factors on solar PV performance in arid desert regions (Qatar) for various PV technologies 2012 ,		28
98	Improvement of humidity sensing properties of PVDF-TiO ₂ nanocomposite films using acetone etching. <i>Sensors and Actuators B: Chemical</i> , 2019 , 288, 408-413	8.5	25
97	Embedded gateway services for Internet of Things applications in ubiquitous healthcare 2014 ,		23
96	A 3G/WiFi-enabled 6LoWPAN-based U-healthcare system for ubiquitous real-time monitoring and data logging 2014 ,		23
95	Effect of BaTiO ₃ on the sensing properties of PVDF composite-based capacitive humidity sensors. <i>Ceramics International</i> , 2020 , 46, 2949-2953	5.1	22
94	Mobile Robot Navigation Based on Q-Learning Technique. <i>International Journal of Advanced Robotic Systems</i> , 2011 , 8, 4	1.4	21

93	. <i>IEEE Sensors Journal</i> , 2017 , 17, 5169-5179	4	20
92	Outage analysis of hybrid FSO/RF systems based on finite-state Markov chain modeling 2014 ,		20
91	Mechanism of arsenic incorporation and electrical properties in CdTe layers grown by metalorganic vapor phase epitaxy. <i>Journal of Applied Physics</i> , 1992 , 71, 2669-2674	2.5	20
90	Fabrication of polyaniline-graphene/polystyrene nanocomposites for flexible gas sensors.. <i>RSC Advances</i> , 2019 , 9, 12496-12506	3.7	19
89	Optimization of ITO glass/TiO ₂ based DSSC photo-anodes through electrophoretic deposition and sintering techniques. <i>Ceramics International</i> , 2017 , 43, 10540-10545	5.1	18
88	Towards u-health: An indoor 6LoWPAN based platform for real-time healthcare monitoring 2013 ,		16
87	Feasibility and performance evaluation of a 6LoWPAN-enabled platform for ubiquitous healthcare monitoring. <i>Wireless Communications and Mobile Computing</i> , 2016 , 16, 1271-1281	1.9	15
86	A comparative analysis of BLE and 6LoWPAN for U-HealthCare applications 2013 ,		15
85	Electrical properties and interface chemistry in the Ti/3C-SiC system. <i>IEEE Transactions on Electron Devices</i> , 1999 , 46, 444-448	2.9	14
84	Low-Toxic, Earth-Abundant Nanostructured Materials for Thermoelectric Applications. <i>Nanomaterials</i> , 2021 , 11,	5.4	14
83	Case Study to Analyze the Impact of Multi-Course Project-Based Learning Approach on Education for Sustainable Development. <i>Sustainability</i> , 2020 , 12, 480	3.6	13
82	A Real-time BLE Enabled ECG System for Remote Monitoring. <i>APCBEE Procedia</i> , 2013 , 7, 124-131		13
81	Novel Design for Thermal Management of PV Cells in Harsh Environmental Conditions. <i>Energies</i> , 2018 , 11, 3231	3.1	13
80	One-dimensional facile growth of MAPbI ₃ perovskite micro-rods.. <i>RSC Advances</i> , 2019 , 9, 11589-11594	3.7	12
79	Surface-type nonvolatile electric memory elements based on organic-on-organic CuPc-H ₂ Pc heterojunction. <i>Chinese Physics B</i> , 2015 , 24, 116102	1.2	12
78	Diversity-Multiplexing Tradeoff for Log-Normal Fading Channels. <i>IEEE Transactions on Communications</i> , 2016 , 64, 3119-3129	6.9	11
77	An RF-LO current-bleeding doubly balanced mixer for IEEE 802.15.3a UWB MB-OFDM standard receivers. <i>AEU - International Journal of Electronics and Communications</i> , 2008 , 62, 490-495	2.8	11
76	Review on organic solar cells 2016 ,		11

75	Capacitive type humidity sensor based on PANI decorated Cu-ZnS porous microspheres. <i>Talanta</i> , 2020 , 219, 121361	6.2	10
74	Effect of ambient temperature on the efficiency of the PCPDTBT: PC71BM BHJ solar cells. <i>Applied Physics A: Materials Science and Processing</i> , 2017 , 123, 1	2.6	10
73	An Experimental Performance Evaluation and Compatibility Study of the Bluetooth Low Energy Based Platform for ECG Monitoring in WBANs. <i>International Journal of Distributed Sensor Networks</i> , 2015 , 11, 645781	1.7	10
72	Structural, morphological and optical properties of PEDOT:PSS/QDs nano-composite films prepared by spin-casting. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016 , 83, 64-68	3	10
71	Flexible organic photo-thermogalvanic cell for low power applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 2442-2447	2.1	9
70	2012 ,		9
69	Development of Prototype for IoT and IoE Scalable Infrastructures, Architectures and Platforms. <i>Lecture Notes in Computer Science</i> , 2018 , 202-216	0.9	9
68	Enhancement of optical features and sensitivity of MEH-PPV/VOPcPhO photodetector using CdSe quantum dots. <i>Journal of Luminescence</i> , 2016 , 180, 209-213	3.8	9
67	Degradation analysis in mixed (MAPbI3 and MAPbBr3) perovskite solar cells under thermal stress. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 1354-1359	2.1	9
66	Design and Simulation of a Green Bi-Variable Mono-Parametric SHM Node and Early Seismic Warning Algorithm for Wave Identification and Scattering 2018 ,		9
65	Energy-Efficient Transmission Technique based on Dijkstra Algorithm for decreasing energy consumption in WSNs 2019 ,		8
64	Secure Performance of AF and DF Relaying in Cooperative Noma Systems 2019 ,		8
63	Outage performance of multi-hop hybrid FSO/RF communication systems 2015 ,		8
62	Synthesis of In Situ Photoinduced Halloysite-Polypyrrole@Silver Nanocomposite for the Potential Application in Humidity Sensors. <i>Nanomaterials</i> , 2020 , 10,	5.4	8
61	A Clustering Routing based on Dijkstra Algorithm for WSNs 2019 ,		7
60	Feasibility of air quality monitoring systems based on environmental energy harvesting 2015 ,		7
59	Experimental Setup to Validate the Effects of Major Environmental Parameters on the Performance of FSO Communication Link in Qatar. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 2599	2.6	7
58	Quantification of PV Power and Economic Losses Due to Soiling in Qatar. <i>Sustainability</i> , 2021 , 13, 3364	3.6	7

57	A Real-Time Early Warning Seismic Event Detection Algorithm Using Smart Geo-Spatial Bi-Axial Inclinometer Nodes for Industry 4.0 Applications. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3650	2.6	7
56	Consequence of aging at Au/HTM/perovskite interface in triple cation 3D and 2D/3D hybrid perovskite solar cells. <i>Scientific Reports</i> , 2021 , 11, 33	4.9	7
55	A BHJ-thin-film/liquid-electrolyte based electrochemical-sensor for visible light-detection. <i>RSC Advances</i> , 2017 , 7, 35445-35450	3.7	6
54	Synthesis and Performance of Large-Scale Cost-Effective Environment-Friendly Nanostructured Thermoelectric Materials. <i>Nanomaterials</i> , 2021 , 11,	5.4	6
53	Effect of microwave sintering on the crystal domain and electrical properties of TiO ₂ nanoparticles. <i>Journal of Nanoparticle Research</i> , 2017 , 19, 1	2.3	5
52	Sol-gel deposition and plasma treatment of intrinsic, aluminum-doped, and gallium-doped zinc oxide thin films as transparent conductive electrodes 2015 ,		5
51	n-InAs based photo-thermo-electrochemical cells for conversion of solar to electrical energy. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 775, 267-272	4.1	5
50	Energy Efficient Real time Outdoor Air Quality Monitoring System 2020 ,		5
49	IoT and IoE prototype for scalable infrastructures, architectures and platforms. <i>International Robotics & Automation Journal</i> , 2018 , 4,	0.2	5
48	Design and Implementation of Information Centered Protocol for Long Haul SHM Monitoring 2019 ,		5
47	PV Power Prediction in Qatar Based on Machine Learning Approach 2018 ,		5
46	Structural Health Monitoring Installation Scheme using Utility Computing Model 2018 ,		5
45	Wireless healthcare monitoring system with ZigBee communication link support. <i>International Journal of Networking and Virtual Organisations</i> , 2011 , 9, 169	0.4	4
44	Multi-purpose healthcare telemedicine system with ISM band communication link support. <i>International Journal of Healthcare Technology and Management</i> , 2010 , 11, 176	0.3	4
43	Low temperature growth of (100) HgCdTe layers with DtBTe in metalorganic vapor phase epitaxy. <i>Journal of Electronic Materials</i> , 1995 , 24, 1093-1097	1.9	4
42	Variation of surface morphology with precursor supply ratio in MOVPE CdTe layers. <i>Journal of Crystal Growth</i> , 1993 , 128, 613-616	1.6	4
41	Hybrid transparent conductive electrodes with copper nanowires embedded in a zinc oxide matrix and protected by reduced graphene oxide platelets. <i>Journal of Applied Physics</i> , 2016 , 119, 085303	2.5	4
40	Humidity sensor based on poly(lactic acid)/PANI-ZnO composite electrospun fibers.. <i>RSC Advances</i> , 2021 , 11, 28735-28743	3.7	4

39	Geographical Area Network Structural Health Monitoring Utility Computing Model. <i>ISPRS International Journal of Geo-Information</i> , 2019 , 8, 154	2.9	3
38	Real-time DWT-based compression for wearable Electrocardiogram monitoring system 2015 ,		3
37	Enhancement of electrical and optical performance of N719 by co-sensitization. <i>Optical Materials</i> , 2018 , 78, 201-206	3.3	3
36	A fuzzy logic based irrigation management system in arid regions applied to the State of Qatar 2012 ,		3
35	Investigation of the structural, optical and gas sensing properties of PANI coated Cu-ZnS microsphere composite.. <i>RSC Advances</i> , 2020 , 10, 26604-26612	3.7	3
34	Sol-gel deposited aluminum-doped and gallium-doped zinc oxide thin-film transparent conductive electrodes with a protective coating of reduced graphene oxide. <i>Journal of Nanophotonics</i> , 2016 , 10, 026001	1.1	3
33	Evaluation of FSO link throughput in Qatar 2015 ,		2
32	Design and Implementation of Multi-Protocol Data Networks Interface Detector in Heterogeneous IoTs 2020 ,		2
31	Design and Implementation of Cadastral Geo-spatial IoT Network Gateway Analyzer for Urban Scale Infrastructure Health Monitoring 2020 ,		2
30	Flexible thermo-electrochemical cells using Iodolyte HI-30 for conversion of low-grade heat to electrical energy. <i>RSC Advances</i> , 2016 , 6, 71370-71374	3.7	2
29	Secrecy Performance of AF relaying in Cooperative NOMA over Rician Channel 2019 ,		2
28	On the Effects of Temperature on the Performances of FSO Transmission under Qatar's Climate 2017 ,		2
27	Atmospheric turbulence effect on hybrid FSO/RF systems 2015 ,		2
26	Renewable energy-harvested sensor systems for air quality monitoring 2014 ,		2
25	High efficiency switching mode class-E power amplifier design improvements for RF 2009 ,		2
24	Improvement in the efficiency of class-E power amplifier for RF 2008 ,		2
23	An optimized embedded architecture for multi-purpose wireless biomedical system using ZigBee Technology 2008 ,		2
22	Low-noise low-power 0.35.μm SiGe amplifiers for 3.1-10.6GHz UWB radio receivers. <i>IEICE Electronics Express</i> , 2004 , 1, 317-321	0.5	2

21	Electronic properties in Ga-doped CdTe layers grown by metalorganic vapor phase epitaxy. <i>Journal of Applied Physics</i> , 1992 , 72, 3406-3409	2.5	2
20	Mechanism of arsenic incorporation in MOVPE growth of CdTe layers. <i>Journal of Crystal Growth</i> , 1992 , 117, 254-258	1.6	2
19	A Smart Rig for Calibration of Gas Sensor Nodes: Test and Deployment 2020 ,		2
18	Integration of the inexpensive CuNWs based transparent counter electrode with dye sensitized photo sensors. <i>RSC Advances</i> , 2016 , 6, 53123-53129	3.7	2
17	Photo-Voltaic (PV) Monitoring System, Performance Analysis and Power Prediction Models in Doha, Qatar		2
16	Indoor test of the fog effect on FSO link 2017 ,		1
15	Development of energy efficient battery electric car for Shell Eco-Marathon competition - Qatar University experience 2014 ,		1
14	Wavelet-based Encoding Scheme for Controlling Size of Compressed ECG Segments in Telecardiology Systems. <i>Journal of Medical Systems</i> , 2017 , 41, 166	5.1	1
13	Colloidal distribution of the PCPDTBT and VOPcPhO in the organic amalgam thin films and their optical properties. <i>Applied Physics A: Materials Science and Processing</i> , 2017 , 123, 1	2.6	1
12	Highly transparent low sheet resistance electrodes for solar cell applications 2014 ,		1
11	A 3.1-8 GHz new CMOS mixer topology for IEEE 802.15.3a UWB standard receivers 2007 ,		1
10	A High-Performance Doubly-Balanced Mixer in 0.35- μ m CMOS for Mode-1 MB-OFDM UWB Receivers. <i>Wireless Personal Communications</i> , 2008 , 46, 351-363	1.9	1
9	A 3 to 5 GHz UWB SiGe HBT Low Noise Amplifier 2006 ,		1
8	Ultra-high aspect ratio copper nanowires as transparent conductive electrodes for dye sensitized solar cells 2016 ,		1
7	New Fast Arctangent Approximation Algorithm for Generic Real-Time Embedded Applications. <i>Sensors</i> , 2019 , 19,	3.8	1
6	Secrecy performance analysis of half/full duplex AF/DF relaying in NOMA systems over (κ - μ) fading channels. <i>Telecommunication Systems</i> ,1	2.3	0
5	Impact of moisture contents on the performance of organic bi-layer ITO/OD thermo-electric cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 9720-9724	2.1	0
4	A 3.1-8-GHz direct-conversion mixer in 0.35- μ m CMOS for mode-1 MB-OFDM UWB systems. <i>Analog Integrated Circuits and Signal Processing</i> , 2010 , 63, 369-379	1.2	

- 3 A 3 to 5 GHz UWB SiGe HBT Low Noise Amplifier for WPANS IEEE 802.15.3a Standard. *Information Technology Journal*, **2007**, 6, 579-583 0.7
- 2 Optical Absorption Enhancement in Polymer BHJ thin Film Using Ag Nanostructures: A Simulation Study. *Current Nanoscience*, **2020**, 16, 556-567 1.4
- 1 Multiparametric Sensor Node for Environmental Monitoring Based on Energy Harvesting. *Atmosphere*, **2022**, 13, 321 2.7