

Farid Touati

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.

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	Multiparametric Sensor Node for Environmental Monitoring Based on Energy Harvesting. <i>Atmosphere</i> , 2022 , 13, 321	2.7	
109	Quantification of PV Power and Economic Losses Due to Soiling in Qatar. <i>Sustainability</i> , 2021 , 13, 3364	3.6	7
108	Low-Toxic, Earth-Abundant Nanostructured Materials for Thermoelectric Applications. <i>Nanomaterials</i> , 2021 , 11,	5.4	14
107	Synthesis and Performance of Large-Scale Cost-Effective Environment-Friendly Nanostructured Thermoelectric Materials. <i>Nanomaterials</i> , 2021 , 11,	5.4	6
106	Humidity sensor based on poly(lactic acid)/PANI-ZnO composite electrospun fibers.. <i>RSC Advances</i> , 2021 , 11, 28735-28743	3.7	4
105	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
104	Design and Implementation of Multi-Protocol Data Networks Interface Detector in Heterogeneous IoTs 2020 ,		2
103	Design and Implementation of Cadastral Geo-spatial IoT Network Gateway Analyzer for Urban Scale Infrastructure Health Monitoring 2020 ,		2
102	Capacitive type humidity sensor based on PANI decorated Cu-ZnS porous microspheres. <i>Talanta</i> , 2020 , 219, 121361	6.2	10
101	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
100	Energy Efficient Real time Outdoor Air Quality Monitoring System 2020 ,		5
99	Optical Absorption Enhancement in Polymer BHJ thin Film Using Ag Nanostructures: A Simulation Study. <i>Current Nanoscience</i> , 2020 , 16, 556-567	1.4	
98	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
97	Synthesis of In Situ Photoinduced Halloysite-Polypyrrole@Silver Nanocomposite for the Potential Application in Humidity Sensors. <i>Nanomaterials</i> , 2020 , 10,	5.4	8
96	A Smart Rig for Calibration of Gas Sensor Nodes: Test and Deployment 2020 ,		2
95	Effect of BaTiO3 on the sensing properties of PVDF composite-based capacitive humidity sensors. <i>Ceramics International</i> , 2020 , 46, 2949-2953	5.1	22
94	A Clustering Routing based on Dijkstra Algorithm for WSNs 2019 ,		7

93	Energy-Efficient Transmission Technique based on Dijkstra Algorithm for decreasing energy consumption in WSNs 2019 ,		8
92	Secure Performance of AF and DF Relaying in Cooperative Noma Systems 2019 ,		8
91	Fabrication of polyaniline-graphene/polystyrene nanocomposites for flexible gas sensors.. <i>RSC Advances</i> , 2019 , 9, 12496-12506	3.7	19
90	Geographical Area Network Structural Health Monitoring Utility Computing Model. <i>ISPRS International Journal of Geo-Information</i> , 2019 , 8, 154	2.9	3
89	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
88	One-dimensional facile growth of MAPbI perovskite micro-rods.. <i>RSC Advances</i> , 2019 , 9, 11589-11594	3.7	12
87	Secrecy Performance of AF relaying in Cooperative NOMA over Rician Channel 2019 ,		2
86	Machine Learning Based Photovoltaics (PV) Power Prediction Using Different Environmental Parameters of Qatar. <i>Energies</i> , 2019 , 12, 2782	3.1	49
85	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
84	New Fast Arctangent Approximation Algorithm for Generic Real-Time Embedded Applications. <i>Sensors</i> , 2019 , 19,	3.8	1
83	Design and Implementation of Information Centered Protocol for Long Haul SHM Monitoring 2019 ,		5
82	Degradation analysis in mixed (MAPbI ₃ and MAPbBr ₃) perovskite solar cells under thermal stress. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 1354-1359	2.1	9
81	Enhancement of electrical and optical performance of N719 by co-sensitization. <i>Optical Materials</i> , 2018 , 78, 201-206	3.3	3
80	A Modular IoT Platform for Real-Time Indoor Air Quality Monitoring. <i>Sensors</i> , 2018 , 18,	3.8	77
79	PLA-TiO ₂ nanocomposites: Thermal, morphological, structural, and humidity sensing properties. <i>Ceramics International</i> , 2018 , 44, 16507-16513	5.1	51
78	IoT and IoE prototype for scalable infrastructures, architectures and platforms. <i>International Robotics & Automation Journal</i> , 2018 , 4,	0.2	5
77	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
76	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

75	PV Power Prediction in Qatar Based on Machine Learning Approach 2018 ,		5
74	Structural Health Monitoring Installation Scheme using Utility Computing Model 2018 ,		5
73	Novel Design for Thermal Management of PV Cells in Harsh Environmental Conditions. <i>Energies</i> , 2018 , 11, 3231	3.1	13
72	Design and Simulation of a Green Bi-Variable Mono-Parametric SHM Node and Early Seismic Warning Algorithm for Wave Identification and Scattering 2018 ,		9
71	Indoor test of the fog's effect on FSO link 2017 ,		1
70	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
69	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
68	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
67	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
66	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
65	A BHJ-thin-film/liquid-electrolyte based electrochemical-sensor for visible light-detection. <i>RSC Advances</i> , 2017 , 7, 35445-35450	3.7	6
64	On the Effects of Temperature on the Performances of FSO Transmission under Qatar's Climate 2017 ,		2
63	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
62	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
61	. <i>IEEE Sensors Journal</i> , 2017 , 17, 5169-5179	4	20
60	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
59	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
58	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

57	Diversity-Multiplexing Tradeoff for Log-Normal Fading Channels. <i>IEEE Transactions on Communications</i> , 2016 , 64, 3119-3129	6.9	11
56	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
55	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
54	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
53	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
52	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
51	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
50	Review on organic solar cells 2016 ,		11
49	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
48	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
47	Ultra-high aspect ratio copper nanowires as transparent conductive electrodes for dye sensitized solar cells 2016 ,		1
46	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
45	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
44	Real-time DWT-based compression for wearable Electrocardiogram monitoring system 2015 ,		3
43	Evaluation of FSO link throughput in Qatar 2015 ,		2
42	Feasibility of air quality monitoring systems based on environmental energy harvesting 2015 ,		7
41	Sol-gel deposition and plasma treatment of intrinsic, aluminum-doped, and gallium-doped zinc oxide thin films as transparent conductive electrodes 2015 ,		5
40	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

39	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
38	Atmospheric turbulence effect on hybrid FSO/RF systems 2015 ,		2
37	Outage performance of multi-hop hybrid FSO/RF communication systems 2015 ,		8
36	Embedded gateway services for Internet of Things applications in ubiquitous healthcare 2014 ,		23
35	Development of energy efficient battery electric car for Shell Eco-Marathon competition - Qatar University experience 2014 ,		1
34	A 3G/WiFi-enabled 6LoWPAN-based U-healthcare system for ubiquitous real-time monitoring and data logging 2014 ,		23
33	Outage analysis of hybrid FSO/RF systems based on finite-state Markov chain modeling 2014 ,		20
32	Renewable energy-harvested sensor systems for air quality monitoring 2014 ,		2
31	Highly transparent low sheet resistance electrodes for solar cell applications 2014 ,		1
30	A Real-time BLE Enabled ECG System for Remote Monitoring. <i>APCBEE Procedia</i> , 2013 , 7, 124-131		13
29	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
28	A comparative analysis of BLE and 6LoWPAN for U-HealthCare applications 2013 ,		15
27	Towards u-health: An indoor 6LoWPAN based platform for real-time healthcare monitoring 2013 ,		16
26	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
25	u-Healthcare system: state-of-the-art review and challenges. <i>Journal of Medical Systems</i> , 2013 , 37, 9949	5.1	119
24	Towards understanding the effects of climatic and environmental factors on solar PV performance in arid desert regions (Qatar) for various PV technologies 2012 ,		28
23	2012 ,		9
22	A fuzzy logic based irrigation management system in arid regions applied to the State of Qatar 2012 ,		3

21	Wireless healthcare monitoring system with ZigBee communication link support. <i>International Journal of Networking and Virtual Organisations</i> , 2011 , 9, 169	0.4	4
20	Mobile Robot Navigation Based on Q-Learning Technique. <i>International Journal of Advanced Robotic Systems</i> , 2011 , 8, 4	1.4	21
19	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
18	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	
17	High efficiency switching mode class-E power amplifier design improvements for RF 2009 ,		2
16	Improvement in the efficiency of class-E power amplifier for RF 2008 ,		2
15	An optimized embedded architecture for multi-purpose wireless biomedical system using ZigBee Technology 2008 ,		2
14	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
13	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
12	A 3.1-8 GHz new CMOS mixer topology for IEEE 802.15.3a UWB standard receivers 2007 ,		1
11	A 3 to 5 GHz UWB SiGe HBT Low Noise Amplifier for WPANS IEEE 802.15.3a Standard. <i>Information Technology Journal</i> , 2007 , 6, 579-583	0.7	
10	A 3 to 5 GHz UWB SiGe HBT Low Noise Amplifier 2006 ,		1
9	Low-noise low-power 0.35- μ m SiGe amplifiers for 3.1-10.6GHz UWB radio receivers. <i>IEICE Electronics Express</i> , 2004 , 1, 317-321	0.5	2
8	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
7	Low temperature growth of (100) HgCdTe layers with D ₂ Te in metalorganic vapor phase epitaxy. <i>Journal of Electronic Materials</i> , 1995 , 24, 1093-1097	1.9	4
6	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
5	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
4	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

3	Mechanism of arsenic incorporation in MOVPE growth of CdTe layers. <i>Journal of Crystal Growth</i> , 1992 , 117, 254-258	1.6	2
2	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
1	Photo-Voltaic (PV) Monitoring System, Performance Analysis and Power Prediction Models in Doha, Qatar		2