

Farid Touati

List of Publications by Year in descending order

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131
papers

2,058
citations

331259

21
h-index

301761

39
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131
all docs

131
docs citations

131
times ranked

2494
citing authors

#	ARTICLE	IF	CITATIONS
1	A Modular IoT Platform for Real-Time Indoor Air Quality Monitoring. <i>Sensors</i> , 2018, 18, 581.	2.1	142
2	U-Healthcare System: State-of-the-Art Review and Challenges. <i>Journal of Medical Systems</i> , 2013, 37, 9949.	2.2	134
3	Machine Learning Based Photovoltaics (PV) Power Prediction Using Different Environmental Parameters of Qatar. <i>Energies</i> , 2019, 12, 2782.	1.6	104
4	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, 16223-16230.	4.0	88
5	Investigation of solar PV performance under Doha weather using a customized measurement and monitoring system. <i>Renewable Energy</i> , 2016, 89, 564-577.	4.3	85
6	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.	3.3	84
7	A simple method for extracting the parameters of the PV cell single-diode model. <i>Renewable Energy</i> , 2017, 113, 885-894.	4.3	73
8	PLA-TiO ₂ nanocomposites: Thermal, morphological, structural, and humidity sensing properties. <i>Ceramics International</i> , 2018, 44, 16507-16513.	2.3	73
9	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.	2.1	59
10	Effect of BaTiO ₃ on the sensing properties of PVDF composite-based capacitive humidity sensors. <i>Ceramics International</i> , 2020, 46, 2949-2953.	2.3	52
11	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.	3.7	50
12	Long-term performance analysis and power prediction of PV technology in the State of Qatar. <i>Renewable Energy</i> , 2017, 113, 952-965.	4.3	49
13	Mobile Robot Navigation Based on Q-Learning Technique. <i>International Journal of Advanced Robotic Systems</i> , 2011, 8, 4.	1.3	41
14	Towards understanding the effects of climatic and environmental factors on solar PV performance in arid desert regions (Qatar) for various PV technologies. , 2012, , .		39
15	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.	4.0	37
16	Fabrication of polyanilineâ€“graphene/polystyrene nanocomposites for flexible gas sensors. <i>RSC Advances</i> , 2019, 9, 12496-12506.	1.7	31
17	Low-Toxic, Earth-Abundant Nanostructured Materials for Thermoelectric Applications. <i>Nanomaterials</i> , 2021, 11, 895.	1.9	29
18	A comparative analysis of BLE and 6LoWPAN for U-HealthCare applications. , 2013, , .		28

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19	A 3G/WiFi-enabled 6LoWPAN-based U-healthcare system for ubiquitous real-time monitoring and data logging. , 2014, , .		28
20	Optimization of ITO glass/TiO ₂ based DSSC photo-anodes through electrophoretic deposition and sintering techniques. Ceramics International, 2017, 43, 10540-10545.	2.3	28
21	Embedded gateway services for Internet of Things applications in ubiquitous healthcare. , 2014, , .		27
22	A Sinusoidal Encoder-to-Digital Converter Based on an Improved Tangent Method. IEEE Sensors Journal, 2017, 17, 5169-5179.	2.4	27
23	Outage analysis of hybrid FSO/RF systems based on finite-state Markov chain modeling. , 2014, , .		25
24	Case Study to Analyze the Impact of Multi-Course Project-Based Learning Approach on Education for Sustainable Development. Sustainability, 2020, 12, 480.	1.6	25
25	Mechanism of arsenic incorporation and electrical properties in CdTe layers grown by metalorganic vapor phase epitaxy. Journal of Applied Physics, 1992, 71, 2669-2674.	1.1	23
26	Towards u-health: An indoor 6LoWPAN based platform for real-time healthcare monitoring. , 2013, , .		23
27	One-dimensional facile growth of MAPbI ₃ perovskite micro-rods. RSC Advances, 2019, 9, 11589-11594.	1.7	23
28	Capacitive type humidity sensor based on PANI decorated Cu@ZnS porous microspheres. Talanta, 2020, 219, 121361.	2.9	22
29	Synthesis and Performance of Large-Scale Cost-Effective Environment-Friendly Nanostructured Thermoelectric Materials. Nanomaterials, 2021, 11, 1091.	1.9	22
30	Feasibility and performance evaluation of a 6LoWPAN-enabled platform for ubiquitous healthcare monitoring. Wireless Communications and Mobile Computing, 2016, 16, 1271-1281.	0.8	20
31	Humidity sensor based on poly(lactic acid)/PANI@ZnO composite electrospun fibers. RSC Advances, 2021, 11, 28735-28743.	1.7	20
32	Novel Design for Thermal Management of PV Cells in Harsh Environmental Conditions. Energies, 2018, 11, 3231.	1.6	19
33	Review on organic solar cells. , 2016, , .		18
34	Diversity-Multiplexing Tradeoff for Log-Normal Fading Channels. IEEE Transactions on Communications, 2016, 64, 3119-3129.	4.9	18
35	Quantification of PV Power and Economic Losses Due to Soiling in Qatar. Sustainability, 2021, 13, 3364.	1.6	16
36	Electrical properties and interface chemistry in the Ti/3C-SiC system. IEEE Transactions on Electron Devices, 1999, 46, 444-448.	1.6	15

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37	A Real-time BLE Enabled ECG System for Remote Monitoring. APCBEE Procedia, 2013, 7, 124-131.	0.5	15
38	Surface-type nonvolatile electric memory elements based on organic-on-organic CuPc-H ₂ Pc heterojunction. Chinese Physics B, 2015, 24, 116102.	0.7	15
39	Effect of ambient temperature on the efficiency of the PCPDTBT: PC71BM BHJ solar cells. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	15
40	Synthesis of In Situ Photoinduced Halloysite-Polypyrrole@Silver Nanocomposite for the Potential Application in Humidity Sensors. Nanomaterials, 2020, 10, 1426.	1.9	15
41	An RF-LO current-bleeding doubly balanced mixer for IEEE 802.15.3a UWB MB-OFDM standard receivers. AEU - International Journal of Electronics and Communications, 2008, 62, 490-495.	1.7	13
42	Design of Qatar University's first solar car for Shell Eco-marathon competition. , 2012, , .		13
43	A Real-Time Early Warning Seismic Event Detection Algorithm Using Smart Geo-Spatial Bi-Axial Inclinometer Nodes for Industry 4.0 Applications. Applied Sciences (Switzerland), 2019, 9, 3650.	1.3	13
44	An Experimental Performance Evaluation and Compatibility Study of the Bluetooth Low Energy Based Platform for ECG Monitoring in WBANs. International Journal of Distributed Sensor Networks, 2015, 11, 645781.	1.3	12
45	Enhancement of optical features and sensitivity of MEH-PPV/VOPcPhO photodetector using CdSe quantum dots. Journal of Luminescence, 2016, 180, 209-213.	1.5	12
46	Flexible organic photo-thermogalvanic cell for low power applications. Journal of Materials Science: Materials in Electronics, 2016, 27, 2442-2447.	1.1	12
47	Consequence of aging at Au/HTM/perovskite interface in triple cation 3D and 2D/3D hybrid perovskite solar cells. Scientific Reports, 2021, 11, 33.	1.6	12
48	Energy-Efficient Transmission Technique based on Dijkstra Algorithm for decreasing energy consumption in WSNs. , 2019, , .		11
49	Degradation analysis in mixed (MAPbI ₃ and MAPbBr ₃) perovskite solar cells under thermal stress. Journal of Materials Science: Materials in Electronics, 2019, 30, 1354-1359.	1.1	11
50	Experimental Setup to Validate the Effects of Major Environmental Parameters on the Performance of FSO Communication Link in Qatar. Applied Sciences (Switzerland), 2018, 8, 2599.	1.3	11
51	Outage performance of multi-hop hybrid FSO/RF communication systems. , 2015, , .		10
52	Structural, morphological and optical properties of PEDOT:PSS/QDs nano-composite films prepared by spin-casting. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 83, 64-68.	1.3	10
53	A BHJ-thin-film/liquid-electrolyte based electrochemical-sensor for visible light-detection. RSC Advances, 2017, 7, 35445-35450.	1.7	10
54	Secure Performance of AF and DF Relaying in Cooperative Noma Systems. , 2019, , .		10

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55	Feasibility of air quality monitoring systems based on environmental energy harvesting. , 2015, , .		9
56	Design and Simulation of a Green Bi-Variable Mono-Parametric SHM Node and Early Seismic Warning Algorithm for Wave Identification and Scattering. , 2018, , .		9
57	Development of Prototype for IoT and IoE Scalable Infrastructures, Architectures and Platforms. Lecture Notes in Computer Science, 2018, , 202-216.	1.0	9
58	Sol-gel deposition and plasma treatment of intrinsic, aluminum-doped, and gallium-doped zinc oxide thin films as transparent conductive electrodes. Proceedings of SPIE, 2015, , .	0.8	8
59	A Clustering Routing based on Dijkstra Algorithm for WSNs. , 2019, , .		8
60	Effect of microwave sintering on the crystal domain and electrical properties of TiO ₂ nanoparticles. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	7
61	PV Power Prediction in Qatar Based on Machine Learning Approach. , 2018, , .		7
62	IoT and IoE prototype for scalable infrastructures, architectures and platforms. International Robotics & Automation Journal, 2018, 4, .	0.3	7
63	Wireless healthcare monitoring system with ZigBee communication link support. International Journal of Networking and Virtual Organisations, 2011, 9, 169.	0.2	6
64	Hybrid transparent conductive electrodes with copper nanowires embedded in a zinc oxide matrix and protected by reduced graphene oxide platelets. Journal of Applied Physics, 2016, 119, .	1.1	6
65	Investigation of the structural, optical and gas sensing properties of PANI coated Cu@ZnS microsphere composite. RSC Advances, 2020, 10, 26604-26612.	1.7	6
66	Energy Efficient Real time Outdoor Air Quality Monitoring System. , 2020, , .		6
67	A fuzzy logic based irrigation management system in arid regions applied to the State of Qatar. WIT Transactions on Ecology and the Environment, 2012, , .	0.0	6
68	Improvement in the efficiency of class-E power amplifier for RF. , 2008, , .		5
69	Multi-purpose healthcare telemedicine system with ISM band communication link support. International Journal of Healthcare Technology and Management, 2010, 11, 176.	0.1	5
70	Renewable energy-harvested sensor systems for air quality monitoring. , 2014, , .		5
71	Atmospheric turbulence effect on hybrid FSO/RF systems. , 2015, , .		5
72	n-InAs based photo-thermo-electrochemical cells for conversion of solar to electrical energy. Journal of Electroanalytical Chemistry, 2016, 775, 267-272.	1.9	5

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73	Structural Health Monitoring Installation Scheme using Utility Computing Model. , 2018, , .		5
74	Secrecy Performance of AF relaying in Cooperative NOMA over Rician Channel. , 2019, , .		5
75	Geographical Area Networkâ€”Structural Health Monitoring Utility Computing Model. ISPRS International Journal of Geo-Information, 2019, 8, 154.	1.4	5
76	New Fast Arctangent Approximation Algorithm for Generic Real-Time Embedded Applications. Sensors, 2019, 19, 5148.	2.1	5
77	Design and Implementation of Information Centered Protocol for Long Haul SHM Monitoring. , 2019, , .		5
78	Variation of surface morphology with precursor supply ratio in MOVPE CdTe layers. Journal of Crystal Growth, 1993, 128, 613-616.	0.7	4
79	Low temperature growth of (100) HgCdTe layers with D ₂ Te in metalorganic vapor phase epitaxy. Journal of Electronic Materials, 1995, 24, 1093-1097.	1.0	4
80	Low-noise low-power 0.35- μ m SiGe amplifiers for 3.1-10.6GHz UWB radio receivers. IEICE Electronics Express, 2004, 1, 317-321.	0.3	4
81	Real-time DWT-based compression for wearable Electrocardiogram monitoring system. , 2015, , .		4
82	Sol-gel deposited aluminum-doped and gallium-doped zinc oxide thin-film transparent conductive electrodes with a protective coating of reduced graphene oxide. Journal of Nanophotonics, 2016, 10, 026001.	0.4	4
83	On the Effects of Temperature on the Performances of FSO Transmission under Qatar's Climate. , 2017, , .		4
84	Enhancement of electrical and optical performance of N719 by co-sensitization. Optical Materials, 2018, 78, 201-206.	1.7	4
85	A Smart Rig for Calibration of Gas Sensor Nodes. Sensors, 2020, 20, 2341.	2.1	4
86	Electronic properties in Ga-doped CdTe layers grown by metalorganic vapor phase epitaxy. Journal of Applied Physics, 1992, 72, 3406-3409.	1.1	3
87	Mechanism of arsenic incorporation in MOVPE growth of CdTe layers. Journal of Crystal Growth, 1992, 117, 254-258.	0.7	3
88	A 3 to 5 GHz UWB SiGe HBT Low Noise Amplifier. , 2006, , .		3
89	Development of energy efficient battery electric car for Shell Eco-Marathon competition - Qatar University experience. , 2014, , .		3
90	Integration of the inexpensive CuNWs based transparent counter electrode with dye sensitized photo sensors. RSC Advances, 2016, 6, 53123-53129.	1.7	3

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91	An experimental performance evaluation of the hybrid FSO/RF. Proceedings of SPIE, 2017, , .	0.8	3
92	Wavelet-based Encoding Scheme for Controlling Size of Compressed ECG Segments in Telecardiology Systems. Journal of Medical Systems, 2017, 41, 166.	2.2	3
93	HARQ Performance over FSO Channels with Atmospheric Fading and Pointing Errors. , 2018, , .		3
94	A Smart Rig for Calibration of Gas Sensor Nodes: Test and Deployment. , 2020, , .		3
95	Design and Implementation of Multi-Protocol Data Networks Interface Detector in Heterogeneous IoTs. , 2020, , .		3
96	Design and Implementation of Cadastral Geo-spatial IoT Network Gateway Analyzer for Urban Scale Infrastructure Health Monitoring. , 2020, , .		3
97	Photo-Voltaic (PV) Monitoring System, Performance Analysis and Power Prediction Models in Doha, Qatar. , 0, , .		3
98	Secrecy performance analysis of half/full duplex AF/DF relaying in NOMA systems over κ - μ fading channels. Telecommunication Systems, 2022, 79, 213-231.	1.6	3
99	A 3.1-4.8 GHz CMOS Mixer Design using Current Bleeding Technique for UWB MB-OFDM Receivers. , 2007, , .		2
100	A High-Performance Doubly-Balanced Mixer in 0.35- μ m CMOS for Mode-1 MB-OFDM UWB Receivers. Wireless Personal Communications, 2008, 46, 351-363.	1.8	2
101	An optimized embedded architecture for multi-purpose wireless biomedical system using ZigBee Technology. , 2008, , .		2
102	High efficiency switching mode class-E power amplifier design improvements for RF. , 2009, , .		2
103	Evaluation of FSO link throughput in Qatar. , 2015, , .		2
104	Impact of moisture contents on the performance of organic bi-layer ITO/OD thermo-electric cells. Journal of Materials Science: Materials in Electronics, 2016, 27, 9720-9724.	1.1	2
105	Flexible thermo-electrochemical cells using Iodolyte HI-30 for conversion of low-grade heat to electrical energy. RSC Advances, 2016, 6, 71370-71374.	1.7	2
106	Colloidal distribution of the PCPDTBT and VOPcPhO in the organic amalgam thin films and their optical properties. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	2
107	Multiparametric Sensor Node for Environmental Monitoring Based on Energy Harvesting. Atmosphere, 2022, 13, 321.	1.0	2
108	A 3.1-4.8 GHz new CMOS mixer topology for IEEE 802.15.3a UWB standard receivers. , 2007, , .		1

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109	Wireless healthcare monitoring system. , 2009, , .		1
110	Highly transparent low sheet resistance electrodes for solar cell applications. , 2014, , .		1
111	Ultra-high aspect ratio copper nanowires as transparent conductive electrodes for dye sensitized solar cells. , 2016, , .		1
112	Indoor test of the fog's effect on FSO link. Proceedings of SPIE, 2017, , .	0.8	1
113	Secure two-user AF relaying networks using cooperative jamming. , 2018, , .		1
114	Optimal Consensus Time Synchronizations for Wireless Sensor Networks. , 2020, , .		1
115	A Fully Functional Secure Ubiquitous Healthcare Monitoring System. , 2014, , .		1
116	Analysis and design of fully-integrated low-noise amplifiers for optical receivers. , 2007, , .		0
117	Designing a Wireless Network For Al-Khuwair Area in The Sultanate of Oman. , 2007, , .		0
118	A 0.35- μ m CMOS Mixer for 3.1-4.8 GHz UWB MB-OFDM Receivers. , 2007, , .		0
119	Co-design implementation of wireless bio-implant for real-time control and monitoring. , 2008, , .		0
120	Design of high efficiency switching mode power amplifier for RF and micro-wave. , 2009, , .		0
121	A 3.1-4.8-GHz direct-conversion mixer in 0.35- μ m CMOS for mode-1 MB-OFDM UWB systems. Analog Integrated Circuits and Signal Processing, 2010, 63, 369-379.	0.9	0
122	Hybrid thin-films of Graphene materials and metallic nanowires for next generation transparent electrodes. , 2013, , .		0
123	Metal nanowire-graphene composite transparent electrodes. , 2014, , .		0
124	Transparent conducting electrodes based on thin, ultra-long copper nanowires and graphene nano-composites. Proceedings of SPIE, 2014, , .	0.8	0
125	Secure half-duplex dual-hop AF relaying networks with partial relay selection. , 2019, , .		0
126	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.	0.3	0

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127	Development of innovative indoor/outdoor air quality monitoring for environmental impact assessment in the State of Qatar. , 2014, , .		0
128	Optical Absorption Enhancement in Polymer BHJ thin Film Using Ag Nanostructures: A Simulation Study. Current Nanoscience, 2020, 16, 556-567.	0.7	0
129	Power Generation Voting Prediction Model of Floating Photovoltaic System. , 2021, , .		0
130	Reliable Photovoltaics Output Power Prediction in Qatar. , 2021, , .		0
131	Photovoltaic System Ensemble Prediction System. , 2021, , .		0