# Roshdy A Abdelrassoul

List of Publications by Year
in descending order

| | | 1684188 | 1588992 |
|---|---|---|---|
| 35 papers | 114 citations | 5 h-index | 8 g-index |
| 35 all docs | 35 docs citations | 35 times ranked | 105 citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Adaptive free space optic system based on visibility detector to overcome atmospheric attenuation. Results in Physics, 2019, 14, 102392. | 4.1 | 20 |
| 2 | High‐efficiency thin‐film polycrystalline‐silicon solar cells. Journal of Applied Physics, 1979, 50, 919-921. | 2.5 | 13 |
| 3 | Potential for economic solar desalination in the Middle East. Renewable Energy, 1998, 14, 345-349. | 8.9 | 11 |
| 4 | Comparative Study of Spectrum Sensing for Cognitive Radio System Using Energy Detection over Different Channels. , 2016, , . | | 11 |
| 5 | Genetic Algorithm-Optimized PID Controller for Better Performance of PV System. , 2016, , . | | 11 |
| 6 | Design and simulation of RF MEMS comb drive with ultra-low pull-in voltage and maximum displacement. Microsystem Technologies, 2018, 24, 3443-3453. | 2.0 | 9 |
| 7 | Enhancement of the Silicon Solar Cell Efficiency by Spin-Coated Polythiophene Films Embedded with Gold or Palladium Nanoparticles on the Rear Contact. ACS Omega, 2021, 6, 13077-13086. | 3.5 | 7 |
| 8 | A New Simple Model for the Single-Electron Transistor (SET). , 2006, , . | | 5 |
| 9 | Low-power CMOS circuits for analog VLSI programmable neural networks. , 2003, , . | | 4 |
| 10 | Neural based prediction of scattering and noise parameters for solid state microwave transistors. , 2014, , . | | 4 |
| 11 | Low-voltage CMOS switched resistor filters. , 0, , . | | 2 |
| 12 | Chemical-vapor deposited large-area multicrystalline epitaxial silicon solar cells on upgraded metallurgical silicon/graphite substrates. Renewable Energy, 2001, 23, 399-408. | 8.9 | 2 |
| 13 | Analysis of anomalous current–voltage characteristics of silicon solar cells. Renewable Energy, 2001, 23, 409-416. | 8.9 | 2 |
| 14 | A New Fast and Accurate Steady State Master Equation Model for Capacitively-Coupled Single-Electron Transistor (SET). , 2006, , . | | 2 |
| 15 | A high - speed analog comparator in 0.5 &#x03BC;m CMOS technology. , 2008, , . | | 2 |
| 16 | Miniaturized MIMO direct conversion transceiver (MIMO-DCT) system with integrated antenna for LTE and wireless communication applications. , 2016, , . | | 2 |
| 17 | MINIATURIZED BEAM-SWITCHING ARRAY ANTENNA WITH MIMO DIRECT CONVERSION TRANSCEIVER (MIMO-DCT) SYSTEM FOR LTE AND WIRELESS COMMUNICATION APPLICATIONS. Progress in Electromagnetics Research C, 2018, 85, 9-23. | 0.9 | 2 |
| 18 | Analysis of anomalies in current-voltage characteristics of silicon solar cells. , 0, , . | | 1 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | Performance Analysis of OFDM with M-ary Modulation in Sum of Frequency-Selective Arbitrary Nakagami-m Fading Channels. , 2007, , . | | 1 |
| 20 | Properties of II-VI Semiconductor Thin Films Prepared by Vacuum Evaporation for Photovoltaic Application. , 2007, , . | | 1 |
| 21 | Performance with application to folded cascode of a near-ballistic limit carbon nano transistor (CNT) circuits. , 2012, , . | | 1 |
| 22 | Hybrid Signature Scheme Integrating Elliptic Curve Cryptosystem with Ong, Schnorr, and Shamir Digital Signature Scheme. Journal of Physics: Conference Series, 2020, 1454, 012006. | 0.4 | 1 |
| 23 | Mobility Degradation Models for Electrons in Inversion Layers of Silicon. Journal of King Saud University, Engineering Sciences, 1999, 11, 71-82. | 2.0 | 0 |
| 24 | An accurate analytical model of the AlGaAs/GaAs high electron mobility transistor (HEMT). , 0, , . | | 0 |
| 25 | Low-power CMOS analog front-end for wireless communication. , 0, , . | | 0 |
| 26 | Modeling transconductance- and capacitance-voltage characteristics of AlGaAs/GaAs HEMTs. , 0, , . | | 0 |
| 27 | Performance characteristics of avalanche photodiodes. , 0, , . | | 0 |
| 28 | Efficient Utilization of Orthogonal Variable Spreading Factor Trees Using Two levels Of Hierarchies and Adaptive Rate Control Mechanism. , 2007, , . | | 0 |
| 29 | A new very low-voltage, low-power CMOS RF mixer. , 2008, , . | | 0 |
| 30 | Triangular-shaped RF MEMS switched air gap capacitor in imec's SiGe-MEMS platform. , 2013, , . | | 0 |
| 31 | A New Design and Implementation of Packets in Digitizer Used in Earthquakes Monitoring Systems. , 2016, , . | | 0 |
| 32 | RF MEMS capacitive switch fixed-fixed structure analysis. , 2016, , . | | 0 |
| 33 | Synthesis and Characterization of Neodymium Oxide Doped Phosphate Glass Matrix for Solar Cell Application. , 2019, , . | | 0 |
| 34 | LNA Design Optimization Using DNA Computing. Journal of Physics: Conference Series, 2020, 1447, 012048. | 0.4 | 0 |
| 35 | MRC Diversity Reception of OFDM with M-ary Modulation over Frequency-Selective Nakagami-m Fading Channels. , 2007, , 245-257. | | 0 |