

Publications

Electrical Engineering

Year 2018	
<i>Journals</i>	
1.	Fajr I. M. Ali, Falah Awwad, Yaser E. Greish, and Saleh T. Mahmoud. "Hydrogen Sulfide (H ₂ S) gas sensor." IEEE sensors Journal, 10 December 2018; DOI: 10.1109/JSEN.2018.2886131
2.	Mohammad I. Daoud, Ayman A. Atallah, Falah Awwad, Mahasen Al-Najjar, and Rami Alazrai. "Automatic Superpixel-based Segmentation Method for Breast Ultrasound Images." Expert Systems with Applications (Elsevier), Available online 22 November 2018.
3.	Asma Wasfi, Falah Awwad, and Ahmad I. Ayesh. "Graphene-based Nanopore Approaches for DNA Sequencing: A Literature Review." Biosensors and Bioelectronics (Elsevier), Volume 119, 15 November 2018, Pages 191-203.
4.	Khadija Said, Naser Qamhieh, Falah Awwad, and Ahmad I Ayesh, "Fabrication and Characterization of Size-Selected Cu Nanoclusters using a Magnetron Sputtering Source". Sensors & Actuators: A. Physical (Elsevier), 277 (2018) 112–116.
5.	Abdul Rehman Said, Khadija Said, Falah Awwad, Naser N. Qamhieh, Saleh T. Mahmoud, Mohammed A. Meetani, Saeed Tariq, and Ahmad I. Ayesh. "Design, Fabrication, and Characterization of Hg ²⁺ Sensor Based on Graphite Oxide and Metallic Nanoclusters". Sensors & Actuators: A. Physical (Elsevier), 271 (2018): 270-277.
6.	Faiq Khalid, Osman Hasan, Syed Rafay Hasan, and Falah Awwad. "Runtime Hardware Trojan Monitors Through Modeling Burst Mode Communication Using Formal Verification". Integration, the VLSI Journal (Elsevier), 61 (2018): 62-76.
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8.	O. Siddiqui, R. Ramzan, M. Omar and N. Bastaki "Lorentz Reflect-Phase Detector for Dielectric and Moisture Sensing" IEEE Sensors Journal, DOI: 10.1109/JSEN.2018.2869401. Vol.18, Issue 22, Page. 9236-9242, 15 Nov, 2018. (JCR IF 2.617)
9.	O. Siddiqui, R. Ramzan, M. Amin, M. Omar and N. Bastaki, "Lorentz Reflect-Phase Detector for Moisture and Dielectric Sensing." IEEE Sensors Journal, vol. 18, no. 22, pp. 9236-9242, Nov. 15, 2018. doi: 10.1109/JSEN.2018.2869401
10.	H. Shareef, M.S. Ahmed, A. Mohamed, E. Al Hassan, Review on Home Energy Management System Considering Demand Responses, Smart Technologies, and Intelligent Controllers. IEEE Access, 2018, 6 (1), pp. 24498-24509, DOI: 10.1109/ACCESS.2018.2831917, Abs./Ind.: ISI. impact factor: 3.557, Q1 (2017 JCR). Pages:11
11.	E. Al-Hassan, H. Shareef, M. M. Islam, A. Wahyudie, A.A. Abdrabou, Improved Smart Power Socket for Monitoring and Controlling Electrical Home Appliances, IEEE Access, 2018, 5(1) pp.49292- 49305 , DOI: 10.1109/ACCESS.2018.2868788, Abs./Ind.: ISI. impact factor: 3.557, Q1 (2017 JCR). Pages:15
12.	M.M. Islam, H. Shareef, A. Mohamed, Optimal Location and Sizing of Fast Charging Stations for Electric Vehicles by Incorporating Traffic and Power Networks, IET Intelligent Transport Systems, 2018, 12(8), pp. 947 – 957, DOI:10.1049/iet-its.2018.5136, Abs./Ind.: ISI. impact factor: 1.387, Q2 (2017 JCR). Pages:11.
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16. I. Abubakar, S. N. Khalid, M. W. Mustafa, M. Mustapha, H. Shareef, Residential Energy Consumption Management Using Arduino Microcontroller, Advanced Science Letters, 2018, 24(6), pp. 3887-3893, DOI: <https://doi.org/10.1166/asl.2018.11505>, Abs./, Ind.: Scopus, Pages: 7
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22. E. Al-Hassan, H. Shareef, M. Islam, Addy Wahyudie, A. Abdrabou, "Improved Smart Power Socket for Monitoring and Controlling Electrical Home Appliances", IEEE Access Vol. 6, pp. 49292-49305, 2018.
23. M. Jama, Addy Wahyudie, and H. Noura, "Robust Predictive Control for Heaving Wave Energy Converters", Control Engineering Practise, vol. 77, pp. 138-149, 2018.
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25. H. M. Alkhoori, A. Lakhtakia, J. K. Breakall, and C. F. Bohren, "Plane-wave scattering by an ellipsoid composed of an orthorhombic dielectric-magnetic material," J. Opt. Soc. Am. A 35, 1549-1559 (2018).
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27. A.M. Gaouda, A. Abdrabou, K. Shaban, M. Khairalla, A. M. Abdrabou, R. El Shatshat, M. Salama, "A smart IEC 61850 merging unit for impending fault detection in transformers," IEEE Transactions on Smart Grid, vol. 9, no. 3, pp. 1812-1821, 2018.
28. T. Khalifa, A. Abdrabou, K. Shaban K, A.M. Gaouda,"Heterogeneous Wireless Networks for Smart Grid Distribution Systems: Advantages and Limitations," Sensors MDPI, 2018;18(5):1517.
29. E. Al-Hassan, H. Shareef, M. M. Islam, A. Wahyudie and A. Abdrabou, "Improved Smart Power Socket for Monitoring and Controlling Electrical Home Appliances," in IEEE Access, vol. 6, pp. 49292-49305, 2018.
30. M. Al Ahmad, A. Najar, A. El Moutaouakil, N. Nasir, M. Hussein, S. Raji, A. H. Alnaqbi, "Label-Free Cancer Cells Detection Using Optical Sensors," IEEE Access, (in press), 2018

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36. Case Study: A Learning-Centered Continuous Ph. D. Advance Course Redesign Process: Mahmoud Al Ahmad, TOJET: The Turkish Online Journal of Educational Technology, vol. 17, no. 2, 2018.
37. Bilirubin detoxification using different phytomaterials: characterization and in vitro studies: Betty Titus Mathew, Shaima Raji, Sawsan Dagher, Ali Hilal-Alnaqbi, Abdel-Hamid Ismail Mourad, Sulaiman Al-Zuhair, Mahmoud Al Ahmad, Khaled Abbas El-Tarabily, Amr Amin, International journal of nanomedicine, Dove Press, vol.13 , 2018.
38. Electrical Detection, Identification, and Quantification of Exosomes: Mahmoud Al Ahmad, IEEE Access, vol. 6, pp. 22826-22817, 2018.
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44. M. S. Laghari, "A Priority Based Course Planning System for Electrical Engineering Department", International Journal of Information and Education Technology (IJIET), Vol. 8, No. 8, pp. 546-552, 2018.
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47. Ahmad Hassan, Najif Ismail, Abdel-Hamid Mourad, Yasir Rashid & Mohammad S. Laghari, "Preparation and Characterization of Expanded Clay-Paraffin Wax-Geopolymer Composite Material", Materials, Vol. 11, No. 11, 2018.

Conferences

1. Mahmoud Al Ahmad, Abdulellah Shaman, and Mousa Hussein, "Displacement Extraction of Piezoelectric Films." 2018 IEEE 5th International Conference on Engineering Technologies and Applied Sciences (ICETAS), Bangkok, Thailand, 22-23 Nov. 2018.
2. Elham Serria, and M I Hussein, "A Novel Yin-Yang Fractal Antenna for Multiband Applications in Communication." 22nd International Microwave and Radar Conference MIKON, Poznań, Poland, May 15-17 2018.
3. Syed Jehangir, Mousa Hussein, Rifaqat Hussain, and Mohammad S. Sharawi, "A Wideband Multi-Beam Yagi based MIMO Antenna System with Multiple Parasitic Directors," The 12th European Conference on Antennas and Propagation, EuCap2018, London, UK, on 9-13 April 2018.
4. Tri B. Susilo, Syed S. Jehangir, M. I. Hussein, and Addy Wahyudie, "A Plasmonic Nanoantenna Array for Solar Energy Applications." 5th International Conference on Renewable Energy: Generation and Application, ICREGA'18, Al Ain, UAE, 26-28 February, 2018.
5. Asad Ahmed, Osman Hasan and Falah Awwad. "Formal Stability Analysis of Control Systems." In Springer CCIS proceedings - Sixth International Workshop on Formal Techniques for Safety-Critical Systems (FTSCS 2018), Gold Coast, Australia, November 16, 2018.
6. Falah Awwad. "Highly Selective Conductometric Sensors with Metallic Nanoclusters for Detection of Hg²⁺ Ions in Water." IEEE 2018 Life Sciences Conference (LSC 2018), Montreal, Quebec, Canada, October 28-30, 2018.
7. Aisha M. Pasha, Hebatallah M. Ibrahim, Syed Rafay Hasan, Rabie Belkacemi, Falah Awwad, and Osman Hasan. "A Utility Maximized Demand-Side Management for Autonomous Microgrid." 18th annual IEEE Canada Electrical Power and Energy Conference (EPEC 2018), Toronto, Ontario, Canada, October 10-11, 2018.
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11. H. Shareef, M M. Islam, S. S. Stephen, Evaluation of Nature-Inspired Algorithms for Battery Parameter Estimation in Renewable Energy Generation Systems, 12th International Power Engineering, Optimization and Computing Conference, 14-15 July 2018, HIG Hotel, Langkawi, Malaysia. pp.1-6
12. S. Khan, H. Shareef, A. Wahyudie, An Improved No-load Voltage Model for Proton Exchange Membrane Fuel Cell Systems Using Curve Fitting Method (ID-295), 6th International Renewable and Sustainable Energy Conference (IRSEC 18), 05-08 Dec. 2018 Rabat, Morocco, pp.1-6
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41. Aaesha AlAli a, Shaikha AlDhaheri b, Mohammad Abdul-Hafez, "Design of a Potable Water Quality Monitoring System Based on Wireless Sensor Networks", The International Conference on Energy, Water & Environmental Sciences (ICEWES 2018), UAE, November 13-15, 2018.
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Book Chapters

1. A. Najar, A. El Moutaouakil, "Hybrid silicon nanowires for solar cells applications," Emerging Solar Energy Materials, IntechOpen, <http://dx.doi.org/10.5772/intechopen.74282>

Patents

1. Rashad Ramzan, Muammad Amin, Omar Farooq Siddiqui, Nabil Bastaki. "Microstrip Fano Resonator." US Patent Application No. 20180226706A1. August 9, 2018.