

## Published Research in the Faculty of Engineering

Paper No.	Year
29	2020-2019
15	2019-2018
4	2018-2017

No.	Authors Names	Paper title	Journal Name
1	Prof. Ala'a Al-Halhouli	Development of active centrifugal pump for microfluidic platforms	Micromachines
2	Dr. Firas Al-Kalil	Study the possibility of using modified asphalt mixtures with waste plastic in high temperature areas	International Journal of Emerging Trends in Engineering Research
3	Prof. Ala'a Al-Halhouli	Clinical evaluation of stretchable and wearable inkjet-printed strain gauge sensor for respiratory rate monitoring at different body postures	Applied Science (Switzerland)
4	Lect. Qusai Radwan Soud	Numerical investigation of sand-basalt heat storage system for beam-down solar concentrators	Case studies in thermal engineering
5	Prof. Ala'a Al-Halhouli	Conductivity and stretchability of inkjet-printed silver nanoparticle patterns: Effect of the number of printed layers	International Journal of Mechanical Engineering and Robotics Research

No.	Authors Names	Paper title	Journal Name
6	Prof. Ala'a Al-Halhouli	Clinical evaluation of stretchable and wearable inkjet-printed strain gauge sensor for respiratory rate monitoring at different measurements locations	Journal of Clinical Monitoring and Computing
7	Prof. Ala'a Al-Halhouli	High-Efficiency small sample microparticle fractionation on a femtosecond laser-machined microfluidic disc	Micromachines
8	Prof. Ala'a Al-Halhouli	Sheath-less high throughput inertial separation of small microparticles in spiral microchannels with trapezoidal crosssection	RSC Advances
9	Prof. Ala'a Al-Halhouli	Optimization of geometry parameters of inkjet-printed silver nanoparticle traces on PDMS substrates using response surface methodology	Material

كلية الهندسة

Faculty of Engineering

No.	Authors Names	Paper title	Journal Name
10	Prof. Ala'a Al-Halhouli	Fabrication and evaluation of a novel non-invasive stretchable and wearable respiratory rate sensor based on silver nanoparticles using inkjet printing technology	Polymers
11	Prof. Ala'a Al-Halhouli	Troubleshooting maintenance of concentrated photo-voltaic (CPV) system- a case study	Journal of ecological engineering
12	Prof. Ala'a Al-Halhouli	Clinical evaluation of stretchable respiratory rate and wearable inkjet-printed strain gauge sensor for monitoring at different measurement locations	Journal of clinical monitoring and computing
13	Prof. Ala'a Al-Halhouli	High-efficiency small sample micro particle fractionation on femtosecond laser-machined microfluidic disc	Micromachines

---

No.	Authors Names	Paper title	Journal Name
14	Dr. Firas Al-Kalil	investigation assessment of modified performance of used tire concrete mixtures	International Journal of Emerging Trends in Engineering Research
15	Dr. Firas Al-Kalil	Evaluating corrosion deterioration in self-compacted reinforced concrete beams and prisms using different tests	Construction and Building Materials
06	Dr. Ayman Awad	Guidelines for Civil Structures Demolition Selection to Enhance Environmental Protection	International Journal of Emerging Trends in Engineering Research (IJETER)
17	Dr. Firas Al-Kalil	Fresh and hardened properties of recycled concrete aggregate modified by iron powder and silica	International Journal of GEOMATE
18	Dr. Firas Al-Kalil	Utilizing of Polyethylene and Plastic Wastes for Paving Asphalt Modification in Jordan	International Journal of Current Research

---

No.	Authors Names	Paper title	Journal Name
19	Dr. Ayman Awad	Fresh and hardened properties of recycled concrete aggregate modified by iron powder and silica	International Journal of GEOMATE
20	Dr. Ayman Awad	Utilizing of Polyethylene and Plastic Wastes for Paving Asphalt Modification in Jordan	International Journal of Current Research
21	Dr. Firas Al-Kalil	Re-Evaluating Elements of an Existing Multi Multi-Level Intersection	International Journal of Engineering Research and Technology
22	Dr. Firas Al-Kalil	A Review of the Status of Scientific Research and Practical Techniques Related to Using Cement Kiln Dust to Stabilize Weak Soils	International Journal of Advanced Trends in Computer Science and Engineering
23	Dr. Firas Al-Kalil	Sustainable pavement performance during freezing and variable immersion periods in water	International Journal of Advanced Trends in Computer Science and Engineering

No.	Authors Names	Paper title	Journal Name
95	Dr. Yazan Abu Aishah	Using Safety System During the Design Phase to Minimize Waste in Construction Projects (In Press, published online 24Sep2020)	Journal of King Saud University – Engineering Sciences
96	Dr. Yazan Abu Aishah	Project Manager Interventions in Occupational Health and Safety During the Pre-Construction Phase in the Gaza Strip (1,14,2020,20-30)	The Open Civil Engineering Journal
97	Dr. Yazan Abu Aishah	Factors Affecting Sustainability Performance During the Construction Stage in Building Projects-Consultants' Perspective (1,14,2020,17-26)	The Open Construction and Building Technology Journal
98	Dr. Yazan Abu Aishah	Factors Affecting Defects Occurrence in the Construction Stage of Residential Buildings in Gaza Strip (2,167,2020,1-12)	SN Applied Sciences: A Springer Nature Journal
99	Dr. Yazan Abu Aishah	Risk Factors Affecting the Performance of Construction Projects in Gaza Strip(1,14,2020,94-104)	The Open Civil Engineering Journal

No.	Authors Names	Paper title	Journal Name
30	Dr. Ayman Awad	UTILIZATION OF WASTE PLASTICS TO ENHANCE THE PERFORMANCE OF MODIFIED HOT MIX ASPHALT	International Journal of GEOMATE
31	Dr. Ayman Awad	Early-high-strength concrete pavement with recycled aggregates and silica	International Journal of Civil Engineering and Technology (IJCIET)
32	Dr. Ayman Awad	Fresh and hardened properties of recycled concrete aggregate modified by iron powder and silica	International Journal of GEOMATE
33	Dr. Firas Al-Kalil	UTILIZATION OF WASTE PLASTICS TO ENHANCE THE PERFORMANCE OF MODIFIED HOT MIX ASPHALT	International Journal of GEOMATE
34	Dr. Firas Al-Kalil	Early-high-strength concrete pavement with recycled aggregates and silica	International Journal of Civil Engineering and Technology (IJCIET)
35	Dr. Firas Al-Kalil	Eco-friendly hot mix asphalt by using recycled concrete aggregate and waste plastic	International Journal of Civil Engineering and Technology (IJCIET),



No.	Authors Names	Paper title	Journal Name
36	Dr. Ayman Awad	Utilizing of Polyethylene and Plastic Wastes for Paving Asphalt Modification in Jordan	International Journal of Current Research
37	Lect. Rawan Al-Eghnimat	Fresh and Hardened Concrete Properties of Recycled Concrete Aggregate Modified by Iron Powder and Silica	The Geomate International Society
38	Dr. Firas Al-Kalil	Fresh and hardened properties of recycled concrete aggregate modified by iron powder and silica	International Journal of GEOMATE
39	Dr. Firas Al-Kalil	Utilizing of Polyethylene and Plastic Wastes for Paving Asphalt Modification in Jordan	International Journal of Current Research
40	Dr. Bashar Abdulrahman	linearization for Digital Predistortion Adaptive Power Amplifiers	Polytechnique D'Orleans
41	Dr. Salam Alfar	Investigation of the effectiveness of repairs and protection materials/techniques of alleviating durability problems.	Jordanian Journal of Civil Engineering

---

No.	Authors Names	Paper title	Journal Name
42	Dr. Salam Alfar	Seismic retrofitting study of an industrial building Aqaba-Jordan	Jordanian Journal of Civil Engineering
43	S. As'ad, A. Al-Salaymeh, and S. Kiwan	Design and Testing of Novel Thermal Receiver on Solar Dish System	Fifth Global Conference on Renewable and Energy Efficiency for Desert Regions GCREEDER 2016
44	Mohanad Halawani and Samer As'ad	Troubleshooting Maintenance of Concentrated Photo-Voltaic (CPV) – A Case Study	The Ninth Jordanian International Mechanical Engineering Conference (JIMEC 2018)
45	S. As'ad, A. Al-Salaymeh, and S. Kiwan	Design and Testing of Dish System Using CSP with Thermal Heat Storage	OmniScriptum GmbH & Co. KG Bahnhofstraße 28, D-66111 Saarbrücken