Publications

Mechanical Engineering Department

Year 2017

Journals

Activating Carbon Fibers and Date Pits for Use in Liver Toxin Adsorption

A Seyedzadeh, A Mwafy, WK Ahmed, K Pandurangan, A Hilal-Alnaqbi

Poisoning: From Specific Toxic Agents to Novel Rapid and Simplified ...

Biodegradable Scaffolds for Gastric Tissue Regeneration

Y Greish, S Pulikkot, AHI Mourad, SM Karam

Scaffolds in Tissue EngineeringMaterials, Technologies and Clinical ...

Method For Treating A Biological Fluid

AH Alnaqbi, AH Mourad, AA Alshehhi, MS Almarzooqi, RY Aljaberi, ...

US Patent App. 15/490,594

Mixture model for biomagnetic separation in microfluidic systems

SA Khashan, A Alazzam, B Mathew, M Hamdan

Journal of Magnetism and Magnetic Materials 442, 118-127

Improving the performance and emission characteristics of a diesel engine fueled by jojoba methyl esterdiesel-ethanol ternary blends

HE Saleh, MYE Selim

Fuel 207, 690-701

Using PCM embedded in building material for thermal management: performance assessment study

E Elnajjar

Energy and Buildings 151, 28-34

Time and frequency analyses of dual-fuel engine block vibration

FK Omar, MYE Selim, SA Emam

Fuel 203, 884-893

Dielectrophoresis based focusing in microfluidic devices

A Alazzam, F Alnaimat, A Hilal-Alnagbi, W Waheed, B Mathew

2017 IEEE Regional Symposium on Micro and Nanoelectronics (RSM), 207-211

Serviceable bioreactor

AA Hilal-Alnagbi, AHI Mourad

US Patent 9,718,029

Experimental assessment of a direct-contact water in a cooler liquid gallium bath heat exchanger bubbling hot

SAB Al Omari, AAK Bashir, MI Al Hammadi, FJ Al Hamalawi, E Elnajjar, ...

INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER 86, 71-80

Experimental assessment of a direct-contact heat exchanger bubbling hot water in a cooler liquid gallium bath

SAB Al Omari, AAK Bashir, MI Al Hammadi, FJ Al Hamalawi, E Elnajjar, ...

International Communications in Heat and Mass Transfer 86, 71-80

Polymeric nanobiocomposites for biomedical applications

MS Mozumder, A Mairpady, AHI Mourad

Journal of Biomedical Materials Research Part B: Applied Biomaterials 105 (5 ...

Flight Dynamics and control using folding wingtips: an experimental study

J Mills, R Ajaj

Aerospace 4 (2), 19

Design and Verification of a Blood Cell Separation Microfluidic Device.

A Gawanmeh, A Alazzam, B Mathew

International Journal of Online Engineering 13 (6)

Visualization and quantification of oil in single microalgal cells

M Al Ahmad, S Al-Zuhair, A Hilal-Alnaqbi, F Mustafa

Journal of applied phycology 29 (3), 1195-1202

Smart drill guide device for muscle training of hand drilling operations

AHI Mourad, AA Alshehhi, MS Al Kaabi

US Patent App. 14/947,372

Metal chips compactor

AHI Mourad, E Al Ali, RA Al Ali, KA Al Hougani, YA Al Nuaimi, ...

US Patent App. 15/351,665

Load testing system and device for sustain load measurement over time in different environmental conditions

AI Mourad, AH Alnaqbi

US Patent App. 14/942,110

Photo-thermal characteristics of water-based Fe3O4@ SiO2 nanofluid for solar-thermal applications

S Khashan, S Dagher, S Al Omari, N Tit, E Elnajjar, B Mathew, ...

Materials Research Express 4 (5), 055701

Production simulator system for flexible routing optimization in flexible manufacturing systems

JE Abu Qudeiri

Proceedings of the Institution of Mechanical Engineers, Part B: Journal of ...

Simple bottom-up hierarchical control strategy for heaving wave energy converters

A Wahyudie, MA Jama, TB Susilo, O Saeed, CSA Nandar, K Harib

International Journal of Electrical Power & Energy Systems 87, 211-221

Adsorption Study of Albumin Bound Bilirubin Over Date Pits Activated Carbon

A Hilal-Alnagbi, AHI Mourad

Advanced Science Letters 23 (5), 4251-4253

Microdevice for continuous flow magnetic separation for bioengineering applications

SA Khashan, S Dagher, A Alazzam, B Mathew, A Hilal-Alnaqbi

Journal of Micromechanics and Microengineering 27 (5), 055016

Lab-on-chip for liquid biopsy (LoC-LB) based on dielectrophoresis

B Mathew, A Alazzam, S Khashan, M Abutayeh

Talanta 164, 608-611

Novel microfluidic device for the continuous separation of cancer cells using dielectrophoresis

A Alazzam, B Mathew, F Alhammadi

Journal of separation science 40 (5), 1193-1200

Flight Dynamics and Control of a Morphing UAV: Bio inspired by Natural Fliers

R Ajaj

UNIVERSITY OF SOUTHAMPTON SOUTHAMPTON United Kingdom

On the injection molding processing parameters of HDPE-TiO2 nanocomposites

AH Mourad, M Mozumder, A Mairpady, H Pervez, U Kannuri

Materials 10 (1), 85

Comparative Study of Non-Productive Tool Path Length for Contour Parallel Machining

H Abdullah, R Ramli, DA Wahab, JA Qudeiri

Journal of Mechanical Engineering, 211-220

Cancer and Biotechnology: A Matchup that Should Never Slowdown

B Baig, A Hilal-Alnaqbi, A Amin

Biotechnology and Production of Anti-Cancer Compounds, 73-97

Microfluidic platforms for bio-applications

A Alazzam, B Mathew, S Khashan

Advanced Mechatronics and MEMS Devices II, 253-282

3D culture of mouse gastric stem cells using porous microcarriers.

R AlKhatib, A Hilal-Alnagbi, M Naciri, R Al-Majmaie, P Saseedharan, ...

Frontiers in bioscience (Scholar edition) 9, 172-179

Mechanical Engineering Department, College of Engineering, United Arab Emirates University, PO Box 15551, Al-Ain, UAE, 2 School of Chemical and Bioprocess Engineering ...

R AlKhatib, A Hilal-Alnagbi, M Naciri, R Al-Majmaie, P Saseedharan, ...

Frontiers in Bioscience 9, 172-179

Multilayers polyethylene film for crop protection in harsh climatic conditions

A Dehbi, B Youssef, C Chappey, AHI Mourad, P Picuno, D Statuto

Advances in Materials Science and Engineering 2017

Conferences

Thermomechanical Characteristics of Compacted and Non-Compacted Plain Weave Woven Laminated Composites

MH Al Kuwaiti, AHI Mourad

ASME 2017 Pressure Vessels and Piping Conference, V03AT03A024-V03AT03A024

Tribological Analysis of Thermal Spray Coatings of Ni and Al2O3 With Dispersion of Solid Lubricants in Wear Modes

JV Christy, AHI Mourad, S Tiwari

ASME 2017 Pressure Vessels and Piping Conference, V06AT06A034-V06AT06A034

Fabrication and wear analysis of aluminium matrix composite reinforced by SiC micro and nano particles AH Idrisi, AHI Mourad

ASME 2017 Pressure Vessels and Piping Conference, V06AT06A033-V06AT06A033

Analysis of dielectrophoresis based 3D-focusing in microfluidic devices with planar electrodes

A Hilal-Alnaqbi, A Alazzam, S Dagher, B Mathew

2017 39th Annual International Conference of the IEEE Engineering in ...

Factors Affecting How the Engineering Students Select Their Discipline at UAE University: A Case Study MYE Selim, AHI Mourad

European Conference of Education ECE2017, June 30 – July 1st, 2017, Brighton ...

Board# 148: MAKER: Generations of NC Machining through Laboratory Work

S Sivaloganathan, R Ganithi

2017 ASEE Annual Conference & Exposition

Investigation of DNA Sequences Utilizing Frequency-Selective Nanopore Structures

A Hilal-Alnaqbi, M Al Ahmad, TA Rizvi, F Mustafa

International Conference on Bioinformatics and Biomedical Engineering, 3-11

Adsorption of Bilirubin Toxin in Liver by Chitosan Coated Activated Carbon Prepared from Date Pits
A Mwafy, A Seyedzadeh, WK Ahmed, BA Ahmad, B Mathew,
International Conference on Bioinformatics and Biomedical Engineering, 247-260
Dynamic modeling and simulation for virtual evaluation of inverted wheeled robot controllers
KH Harib, KAF Moustafa, S Al Hebsi
2017 7th International Conference on Modeling, Simulation, and Applied
Reducing NOx emissions from small LPG furnace by direct water injection
SAB Al Omari, S Aljailani, A Al, E Alansari, M Alzaabi, O Al Jallad
ICTEA: International Conference on Thermal Engineering 2017
Chaotic Mixing Using Vortex in a CylindricalL Micromixer
A Safi, E Elnajjar, A Hussain
ICTEA: International Conference on Thermal Engineering 2017
The Effect of Date Seeds size and Type on the Oil Extraction Percentage
E Elnajjar, S Al-Zuhair, S Al Omari, A Alnaqbi, S Hassan
ICTEA: International Conference on Thermal Engineering 2017
A framework for the selection of heavy construction equipment
E Zaneldin, S Sivaloganathan
Proceedings of the International Annual Conference of the American Society
Evidence needed to destroy and replace machining capability
S Sivaloganathan, E Zaneldin, R Ganithi
Proceedings of the International Annual Conference of the American Society
Using FMEA Analysis for Assessing Air Conditioners Remanufacturing Processes
B Salah, M Alkahtani, A Ziout
Proceedings of the International Conference on Industrial Engineering and
Book Chapters
Patents