

Publication Year	Research Title	KFU Author	Journal Name
2019	The role of service-induced residual stresses in initiating and propagating stress corrosion cracking (SCC) in a 316 stainless steel pressure-relief-valve nozzle set	Mofid Mahdi	Engineering Failure Analysis
	Design of a geothermal heating system	Karthik Silaipillayarputhur	International Conference on Modeling Simulation and Applied Optimization, ICMSAO 2019
	Design of Summer Air-conditioning System	Karthik Silaipillayarputhur	8th International Conference on Modeling Simulation and Applied Optimization (ICMSAO 2019)
	Design of Winter Air-conditioning System	Karthik Silaipillayarputhur	8th International Conference on Modeling Simulation and Applied Optimization (ICMSAO 2019)
	The design of shell and tube heat exchangers – A review	Karthik Silaipillayarputhur	International Journal of Mechanical and Production Engineering Research and Development
	Design of summer air-conditioning system	Tawfiq Al Mughanam	8th International Conference on Modeling Simulation and Applied Optimization
	FEM-Based Study of Precision Hard Turning of Stainless Steel 316L	Mohammed Saber	Materials
	Analysis of Integrated Cylinder-Shaped Steel Flywheels in Flywheel Energy Storing Systems	Mohammed Saber	Port Said Engineering Research Journal
	Corrosion and passive film study of Cermet-coatings deposited by high-velocity oxygen fuel method in an acidic environment	Akbar Niaz	International Journal of Surface Sciences and Engineering
2018	Assessment of the Predictive Capabilities of Existing Models for Physical Properties of Pure Ionic Liquids	Abdulaziz Esinawi	Journal of Molecular Liquids
	Understanding the heat capacity enhancement in ionic liquid-based nanofluids (ionanofluids)	Abdulaziz Esinawi	Journal of Molecular Liquids
	A new insight into pure and water-saturated quaternary phosphonium-based carboxylate ionic liquids: Density, heat capacity, ionic conductivity, thermogravimetric analysis, thermal conductivity and viscosity	Abdulaziz Esinawi	J. Chem. Thermodynamics
	Further development of the predictive models for physical properties of pure ionic liquids: Thermal conductivity and heat capacity	Abdulaziz Esinawi	J. Chem. Thermodynamics
	Thermal Conductivity Enhancement Phenomena in Ionic Liquid-Based Nanofluids (Ionanofluids)	Abdulaziz Esinawi	Aust. J. Chem

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2018	Experimental parametric study of a mixed-mode forced convection solar dryer equipped with a PV/T air collector	Houssam Abdelhafidh CHOUIKHI	Solar Energy
	Numerical Simulation of Concrete Mix Structure and Detection of its Elastic Stiffness	Mofid Mahdi	Journal of Computational Engineering and Physical Modeling
	Three-Dimensional Modelling of Concrete Mix Structure for Numerical Stiffness Determination	Mofid Mahdi	Journal of Computational Engineering and Physical Modeling
	A Study on the solar radiation incident upon the overhead water tanks in Saudi Arabia with different configurations	Karthik Silaipillayarputhur	International Journal of Engineering and Technology
	Basic design of a cooling system for nylon 6, 6 process	Karthik Silaipillayarputhur	International Journal of Engineering and Technology
	Design of a Heat Sink for an Electronic Component in ABB Drive using Different Types of Fins	Karthik Silaipillayarputhur	5th International Conference on Mechanical, Materials and Manufacturing
	Performance charts for multi-pass parallel cross-flow heat exchangers	Karthik Silaipillayarputhur	International Journal of Mechanical Engineering and Robotics Research
	Process safety management in manufacturing industries a review	Karthik Silaipillayarputhur	International Journal of Engineering and Technology
	Design of a Heat Sink for an Electronic Component in ABB Drive using Different Types of Fins	Tawfiq Al Mughanam	5th International Conference on Mechanical, Materials and Manufacturing
	Operational Flammability Limits of Commercial Fuels - A Review	Tawfiq Al Mughanam	Operational Flammability Limits of Commercial Fuels - A Review
	Analytical and Numerical Design Analysis of Concentric Tube Heat Exchanger – A Review	Tawfiq Al Mughanam	Material Science and Engineering
	Performance charts for multi-pass parallel cross-flow heat exchangers	Tawfiq Al Mughanam	International Journal of Mechanical Engineering and Robotics Research
	Verification of the feed-forward control for a piezoelectric actuator using differential flatness approach	Jomah Alzoubi	Journal of Intelligent Material Systems and Structures
2017	Analytical and Numerical Design Analysis of Concentric Tube Heat Exchangers - A Review	Karthik Silaipillayarputhur	4th International Conference on Mechanical, Materials and Manufacturing
	Applications of performance tables on steady state analysis of multipass parallel cross flow heat exchanger	Karthik Silaipillayarputhur	International Journal of Engineering Research in Africa
	Design of A Single Tube Fuel Oil Preheater	Karthik Silaipillayarputhur	Heat Transfer Engineering
	Sensible performance analysis of multi-pass cross flow heat exchangers	Karthik Silaipillayarputhur	2017 International Conference on Mechanical, Aeronautical and Automotive Engineering
	Sensible performance analysis of multi-pass cross flow heat exchangers	Tawfiq Al Mughanam	2017 International Conference on Mechanical, Aeronautical and Automotive Engineering

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2016	Production of Hydrogen from Poly Ethylene Terephthalate (PET)	Abdulaziz Esinawi	Engineering, Technology & Applied Science Research Vol. 6
	Maintenance Engineering in Process Plants	Karthik Silaipillayarputhur	3rd International Conference on Mechanics and Mechatronics Research
	Design of a Dowtherm A pumping system	Karthik Silaipillayarputhur	International Journal of Applied Engineering Research
	Design of a hot oil heat exchanger system	Karthik Silaipillayarputhur	International Journal of Applied Engineering Research
) Creep Evaluation of Traditional and Nuclear Power Plants High Temperature Components, Using Small Pin Loaded One-Bar and Two-Bar Specimens	Mohammed Saber	Nuclear Technology
	Numerical study of the effects of crack location on creep crack growth in weldment	Mohammed Saber	Engineering Fracture Mechanics
	Numerical Simulation to Study the Influence of Welding Sequence on Distortion and Residual Stresses of Butt-Welded Plates	Mohammed Saber	Port Said Engineering Research Journal
	FE Simulation Study of Ultra-Precision Turning of Stainless Steel 316L	Mohammed Saber	17th Int. Conference on Applied Mechanics and Mechanical Engineering
	Numerical Investigation of the Effects of Misalignment on the Pre-mature Failure of the Standard and Sub-size Uniaxial Creep Test Specimens	Mohammed Saber	Proceedings of MECHATECH '16 conference
	Comprehensive Pitting Study of High Velocity Oxygen Fuel Inconel 625 Coating by Using Electrochemical Testing Technique	Akbar Niaz	Materials Engineering and Performance
2015	Electrochemical corrosion testing and characterization of potential assisted passive layer on HVOF Inconel 625 coating	Akbar Niaz	Corrosion Reviews
2014	Biodiesel production and Environmental CO2 cleanup using Oleaginous Microorganisms from Al-Hassa area in Saudi Arabia	Abdulaziz Esinawi	Central European Journal of Engineering
2013	Comprehensive Dynamic Model of a Viscously Damped RF-MEMS Switch Including Squeeze Film and Impact Force Effects'	Abdulaziz Esinawi	Applied Mechanics and Materials
2012	The Effect of High Water Content of Fuel on Diesel Engine Emission	Abdulaziz Esinawi	GJRE