

Table of contents for issue 1, volume 1076, IOP Conference Series: Materials Science and Engineering

Volume 1076

2021

← [Previous issue](#) [Next issue](#) →

2nd International Scientific Conference of Engineering Sciences (ISCES 2020) 16th-17th December 2020, Diyala, Iraq

Accepted papers received: 26 January 2021

Published online: 25 February 2021

[Open all abstracts](#)

Preface

OPEN ACCESS 011001

2nd-International Scientific Conference of Engineering Sciences (ISCES 2020),
University of Diyala, College of Engineering, Iraq

 [View article](#)  [PDF](#)

OPEN ACCESS 011002

Peer review declaration

 [View article](#)  [PDF](#)

Electrical Power Engineering

OPEN ACCESS 012001

Adaptive Tuning of PID Controller using Crow Search Algorithm for DC motor

Amer Alkrwy, Arkan Ahmed Hussein, Thamir H. Atyia and Muntadher Khamees

 [View article](#)  [PDF](#)

OPEN ACCESS 012002

Electromagnetism-Like Algorithm-Based Parameters Estimation of Double-Diode PV-Module Model

H T Haider, D H Muhsen and H F Mahdi

[View article](#) [PDF](#)**OPEN ACCESS**

012003

PWM Inverter with Digital Microcontroller for Speed Control Applications

Fadhel A Jumaa, Mohanad Aljanabi, Ahmed hussein Duhis and Jameel Kadhim Abed

[View article](#) [PDF](#)**OPEN ACCESS**

012004

The Optimum PV Panels Slope Angle for Standalone System: Case Study in Duhok, Iraq

Mustafa Hussein Ibrahim and Muhammed A. Ibrahim

[View article](#) [PDF](#)**OPEN ACCESS**

012005

Residential Load Scheduling Based Analytical Optimization Method

M J Sultan, M A Tawfeeq and H T Haider

[View article](#) [PDF](#)**OPEN ACCESS**

012006

Assessing of renewable energy for electrical household ancillary based on photovoltaics and wind turbines

Qusay Hassan

[View article](#) [PDF](#)**OPEN ACCESS**

012007

Design and Implementation of Constant Speed control System for the Induction motors Using Programmable logic Controller (PLC) and Variable Frequency Derive (VFD)

Khalid Hussien Khudier, Khalid G. Mohammed and Mayyadah Sahib Ibrahim

[View article](#) [PDF](#)**OPEN ACCESS**

012008

Optimal Location of High Voltage Direct Current (HVDC) Transmission Line using Genetic Algorithm

Z N Abbas and F M Tuaimah

[View article](#) [PDF](#)**OPEN ACCESS**

012009

Optimal Placement of Statcom for Iraqi National (400kV) Super High Voltage Grid System Genetic Algorithm Based Approach

Hassan A Salbi and F M Tuaimah

[View article](#) [PDF](#)

OPEN ACCESS

012010

Technical Assessment for Solar Powered Pumps in IRAQ

Raghad Ali Mejeed and Samah Shyaa Oudah

 [View article](#)  [PDF](#)**OPEN ACCESS**

012011

Power Efficient Wideband Power LNA for WSN

Ahmad S. Abdullah, Sadeq Adnan Hbeeb, Haidar N. Al-Anbagi and Abdulghafor A. Abdulhameed

 [View article](#)  [PDF](#)**Architecture and urban design****OPEN ACCESS**

012012

The role of aesthetic inputs in the sustainable Beauty of Baghdadi House

Maysoon Muhi Hilal

 [View article](#)  [PDF](#)**OPEN ACCESS**

012013

The Effect of Using Building Information Modelling (BIM) (Stages: Design, Execution and Post-Execution)

Mazin Ismael Raheem

 [View article](#)  [PDF](#)**OPEN ACCESS**

012014

Collective Memory as a Source of Knowledge in Architectural Education

Shaimaa M. Hamza, Ibrahim Jawad Kadhim Al-Yousif and Abdullah Saadoon Salman

 [View article](#)  [PDF](#)**OPEN ACCESS**

012015

The Importance of Google Maps for Traffic in Calculating the Level of Service for the Road and Traffic Delay

K S Ali and N M Abid

 [View article](#)  [PDF](#)**OPEN ACCESS**

012016

Living cool: An approach for Architectural “COOL ROOF” to Decrease the Electricity Consumption in Iraq

Saad F Alnuaimi and Wasan M Mohammed

 [View article](#)  [PDF](#)**OPEN ACCESS**

012017

Liquid Architecture

Daood S Al Asadi and Abbas A Al Greiza

 [View article](#)  [PDF](#)

OPEN ACCESS

012018

Employing Sustainable Environmental Technologies in Raising the Efficiency of the Building Ecosystem

Ghada Ghalib Abdulwahab

 [View article](#)  [PDF](#)

Chemical and Petroleum Engineering

OPEN ACCESS

012019

Tertiary amine blend for CO₂ capture: A kinetic investigation using Monoethanolamine, Triethanolamine and Piperazine

Safa Waleed Shakir, Ahmed Daham Wiheeb and Sahar Adnan Ahmed

 [View article](#)  [PDF](#)

OPEN ACCESS

012020

Catalytic Demetalization of Ni⁺² Ions from Aqueous Solutions Using Two Types of Activated Carbon

Suha Anwer Ibrahim, Mohammed Nsaif Abbas, Zaidun Naji Abudi and Thekra Atta Ibrahim

 [View article](#)  [PDF](#)

OPEN ACCESS

012021

The Feasibility of Emulsion Liquid Membrane for the Extraction of Organic Acids from Wastewater

Suheila Abd Alreda Akkar and Sawsan Abd Muslim Mohammed

 [View article](#)  [PDF](#)

OPEN ACCESS

012022

Prediction of Carbon Dioxide Solubility in Monoethylene Glycol /Water Mixtures Employing SRK and PR-EOS with Two Different Mixing Rules

Arkan Jasim Hadi

 [View article](#)  [PDF](#)

OPEN ACCESS

012023

Numerical simulation of the heat losses through the steam injection in enhanced oil recovery process

Maaly Salah Asad, Farhan Lafta Rashid and Hasan Qahtan Hussein

 [View article](#)  [PDF](#)

OPEN ACCESS

012024

Dehydration of Methanol in catalytic fixed bed reactor

Ghassan J hadi

 View article  PDF

OPEN ACCESS

012025

Pre-dissolved Inorganic Carbon (DIC) for cultivation *Chlorella sorokiniana* MH923013, *Coelastrella* MH923011 and *Coelastrella* MH923012

Raghad S Mahdi, Mahmood K H Al-Mashhadani and Ibrahim J Abed

 View article  PDF

OPEN ACCESS

012026

Extraction of prodigiosin using aqueous two phase system

Zahraa Mohammed Jaffer, Khalid W. Hameed and Sahar Ghazi Imran

 View article  PDF

OPEN ACCESS

012027

Performance Evaluation of a Combined Electrocoagulation– Electrooxidation Process for the Treatment of Petroleum Refinery Wastewater

Ali H. Abbar and Sajjad S. Alkurdi

 View article  PDF

OPEN ACCESS

012028

Numerical Study of Latent Heat Storage Unit Thermal Performance Enhancement Using Natural Inspired Fins

Mustafa S. Mahdi, Anees A. Khadom, Hameed B. Mahood and Alasdair N. Campbell

 View article  PDF

OPEN ACCESS

012029

Pre-evaporation of Ethanol as an Effective Method to Improve Single Cell Protein (SCP) Production from Date Palm Residue by *Saccharomyces Cerevisiae*

Salah N. Farhan, Walaa Abid Mahmood and Ali Hussein Ali Godeib

 View article  PDF

OPEN ACCESS

012030

Separation of oil/water emulsions by microbubble air flotation

Sumaya L Al-Dulaimi and Atheer M Al-Yaqoobi

 View article  PDF

OPEN ACCESS

012031

Removal of Ciprofloxacin from Aqueous Solution Using Prepared Biodegradable Potato Cross-linked Starch Ester

F K Al-Jubory, I M Mujtaba and A S Abbas

[View article](#) [PDF](#)

Computer and Information

OPEN ACCESS 012032

Geometric Form Algorithm for Data Hiding

Abdulkreem Mohammed Salih and Karam Mazin Zaki

[View article](#) [PDF](#)**OPEN ACCESS** 012033

Use of Artificial Neural Network method to Predict the Amount of Oxygen in the Tigris River

Faiez Musa L. Alrufaye, Firas H. Neamah, Hakeem I. Mhaibes and Marwah Th. Ali

[View article](#) [PDF](#)**OPEN ACCESS** 012034

A review on Queue Management Algorithms in Large Networks

Mustafa Maad Hamdi, Hussain Falih Mahdi, Mohammed Salah Abood, Ruaa Qahtan Mohammed, Abdulkareem Dawah Abbas and Alaa Hamid Mohammed

[View article](#) [PDF](#)**OPEN ACCESS** 012035

A New Deployment Schema Using Dynamic Relay Vehicle to Improve VANETs Connectivity in Urban Environment

K D Ibrahim, A N Rashid and F S Mubark

[View article](#) [PDF](#)**OPEN ACCESS** 012036

Multi-Criteria Decision Support System for Lung Cancer Prediction

Baidaa Al-Bander, Yousra Ahmed Fadil and Hussain Mahdi

[View article](#) [PDF](#)**OPEN ACCESS** 012037

Medical Image Compression Based on SPIHT-BAT Algorithms

Huda M Salih and Ali Mohammed Kadhim

[View article](#) [PDF](#)**OPEN ACCESS** 012038

Challenges in E- governments: A case study-based on Iraq

Noor A. Jasim, Emad M. Hameed and Sarah A. Jasim

[View article](#) [PDF](#)

OPEN ACCESS

012039

Driverless Cars with Communication System Based On Multiple Access Protocols

Tasneem A. Alani and Salah A. Aliesawi

 [View article](#)  [PDF](#)**OPEN ACCESS**

012040

Design and implementation of a fast sequential multiplier based on iterative addition architecture

Ahmed Salah Hameed and Marwa Jawad Kathem

 [View article](#)  [PDF](#)**OPEN ACCESS**

012041

Designing Substitution Box Based on the 1D Logistic Map Chaotic System

Meryam Saad Fadhil, Alaa Kadhim Farhan and Mohammad Natiq Fadhil

 [View article](#)  [PDF](#)**OPEN ACCESS**

012042

Social Touch Recognition Based on Support Vector Machine and T-Distributed Stochastic Neighbour Embedding as Pre-processing

Ahmed Khudhair Abbas, Adil Ibrahim Khalil and Sameera A. Abdulkader

 [View article](#)  [PDF](#)**OPEN ACCESS**

012043

Efficient Hardware Implementation for Quantum key Distribution Protocol using FPGA

Yasir Amer Abbas and Alharith A. Abdullah

 [View article](#)  [PDF](#)**OPEN ACCESS**

012044

Combined Chi-Square with k-Means for Document Clustering

Ammar Ismael Kadhim and Abood Kirebut Jassim

 [View article](#)  [PDF](#)**OPEN ACCESS**

012045

Skin Disease Classification System Based on Machine Learning Technique: A Survey

Saja Salim Mohammed and Jamal Mustafa Al-Tuwaijari

 [View article](#)  [PDF](#)**OPEN ACCESS**

012046

Evaluating Python, C++, JavaScript and Java Programming Languages Based on Software Complexity Calculator (Halstead Metrics)

Sabah A. Abdulkareem and Ali J. Abboud

[View article](#) [PDF](#)**OPEN ACCESS**

012047

An Inclusive Survey of Machine Learning based Hand Gestures Recognition Systems in Recent Applications

Hind Ibrahim Mohammed, Jumana Waleed and Saad Albawi

[View article](#) [PDF](#)**OPEN ACCESS**

012048

A Comparative analysis study of lung cancer detection and relapse prediction using XGBoost classifier

Rana Dhia'a Abdu-Aljabar and Osama A. Awad

[View article](#) [PDF](#)**Electronic and Communication Engineering****OPEN ACCESS**

012049

Performance Enhancement of Miniaturized Dual-Band Bandpass Filter

Dhuha G. Hammood and Raaed T. Hammed

[View article](#) [PDF](#)**OPEN ACCESS**

012050

An Enhancement Coherent Code Discriminator for Tracking GPS Signal

Ali Abu-Rghaif and Hussein A. Abdulkadhim

[View article](#) [PDF](#)**OPEN ACCESS**

012051

Assessment of Skin Lesions Segmentation on Database ISIC 2018 by Bee Colony Link

Mohanad Aljanabi, Ahmad S. Abdullah, Jabbar K. Mohammed and Nadia Alani

[View article](#) [PDF](#)**OPEN ACCESS**

012052

Performance Analysis of Inter-satellite Optical Wireless Communication (IsOWC) System with Multiple Transmitters/Receivers

Majidah H. Majeed, Riyadh Khlf Ahmed and Raad S Alhumaima

[View article](#) [PDF](#)**OPEN ACCESS**

012053

Review on secure data aggregation in Wireless Sensor Networks

Mohammed Salah Abood, Hua Wang(王华), Hussain Falih Mahdi, Mustafa Maad Hamdi and Ahmad S. Abdullah

[View article](#) [PDF](#)**OPEN ACCESS**

012054

Performance Analysis of Quantum Repeaters Based Hybrid Communications Networks

Marwa Hameed Kadhim, Jawad A. K. Hasan and Raad S. Alhumaima

[View article](#) [PDF](#)**OPEN ACCESS**

012055

Power reduction using high speed with saving mode clock gating technique

Maan Hameed, Hussein Sh. Mogheer and Ali Mansour

[View article](#) [PDF](#)**OPEN ACCESS**

012056

SINR and Capacity Analysis for Multiuser MIMO Interference Channels

Ahmed Abdulameer Naser, Lwaa Faisal Abdulameer and Oguz Bayat

[View article](#) [PDF](#)**OPEN ACCESS**

012057

Secure voice cryptography based on Diffie-Hellman algorithm

Sura F. Yousif

[View article](#) [PDF](#)**OPEN ACCESS**

012058

A Proposed Solution for Route Reply Storm Problem to Improve DSR Protocol Performance in Wireless Sensor Networks

Dheyaa Jasim Kadhim

[View article](#) [PDF](#)**OPEN ACCESS**

012059

Modified Speech Separation Deep Learning Network Based on Hamming window

Hussein A Al-Barhan, Sinan M Elyass, Thamer R Saeed, Ghufraan M Hatem and Hadi T Ziboon

[View article](#) [PDF](#)**OPEN ACCESS**

012060

Characterization of Multimode Interference Based Optical Fiber

Shahad I Younus, Anwaar A Al-Dergazly and A K Abass

[View article](#) [PDF](#)**OPEN ACCESS**

012061

Optimized Design for Improving the Performance of Stator Three-Phase Induction Motor for Industrial Applications Using HHO Algorithm

Khalid G Mohammed, Nasrallah S Khalaf, Qahtan M Yas and Maha A Hutaihit

 [View article](#)  [PDF](#)

OPEN ACCESS

012062

Data Disseminated Energy-Efficient Clustering Algorithm For Avoid Load and Bandwidth Consumption In WSN Integrated IoT Platform

Haider Ali Jasim Alshamary, Emad Hmood Salman and Yousif Allbadi

 [View article](#)  [PDF](#)

OPEN ACCESS

012063

Design of an Efficient Controller for Steam Generator System

Lafta E. J. Alkurawy, Ammar Issa Ismael and Khalid G. Mohammed

 [View article](#)  [PDF](#)

OPEN ACCESS

012064

The Smart Parking System Using Ultrasonic Control Sensors

Yousif Allbadi, Jinan N. Shehab and Musaab M. Jasim

 [View article](#)  [PDF](#)

OPEN ACCESS

012065

Reflection and transmission coefficients measurements for polymer composites with a nano-pzt material using a non-resonant method

Basman M. Al-Nedawe, Israa Hazem Ali, Ahmed Mohammed Ahmed and Hamid M. Mahan

 [View article](#)  [PDF](#)

OPEN ACCESS

012066

On the Trade-offs of 5G networks and Beyond

Yassir Ameen Ahmed Al-Karawi, Montadar Abas Taher and Riyadh khlf Ahmed

 [View article](#)  [PDF](#)

Mechanical and Material Engineering

OPEN ACCESS

012067

Geometry Modification Effect on The Aerodynamic Characteristics of NACA 0015 Using CFD.

K N Abed, YA J Almahdawi and E E Kader

 [View article](#)  [PDF](#)

OPEN ACCESS

012068

Assessment of Stress and Strain Distribution at Crack Tip Using Digital Image Correlation

Zaid S. Hammoudi, Dhia A. Alazawi and Mohanad Nazhan Mohammed

 [View article](#)  [PDF](#)

OPEN ACCESS

012069

Characteristics Study of Gas Turbine Performance with using surface geothermal energy: *Case Study of Iraq*

Layth Abed Hasnawi Al-Rubaye, Itimad D J Azzawi, Ahmed Al-Samari and Hussein Burhan Mohammed

 [View article](#)  [PDF](#)

OPEN ACCESS

012070

Gasoline Engine Simulation Software: A Comparison Review

Wisam S Ghanim, Omer K Ahmed and Obed M Ali

 [View article](#)  [PDF](#)

OPEN ACCESS

012071

Effect of input parameters on MRR and EWR for tool steel AISI L2 by electric discharge machine (EDM)

Shukry H. Aghdeab, Raed R. Shwaish and Tahseen M. Salman

 [View article](#)  [PDF](#)

OPEN ACCESS

012072

Effects of Increasing Mass Scaling in 3D Explicit Finite Element Analysis on the Wire Drawing Process

Jabbar Gattmah, Suha K. Shihab, Muzher Taha Mohamed and Ali Laftah Abbas

 [View article](#)  [PDF](#)

OPEN ACCESS

012073

Experimental Study of Forced Convection Heat Transfer through Porous Media inside a Rectangular Duct of Fully Developed Region

A N Mahdi, M R Hasan and S A Rasheed

 [View article](#)  [PDF](#)

OPEN ACCESS

012074

Simulation between Soldering and Brazing of Copper at 450 Temperature by Zn-Sn Fillet Alloy

Kadhim K. Kahlol, M Aldhaidhawi and Sami A. Nawi

 [View article](#)  [PDF](#)

OPEN ACCESS

012075

Study the flow direction and number of tubes in cross-flow heat exchanger to improve the heat transfer coefficient.

Shatha Ali Merdan and Zena khalefa Kadhim

[View article](#) [PDF](#)**OPEN ACCESS**

012076

Numerical response of aluminium plate (6061-T6) under dynamic loadings.

Nassier A. Nassir and Ayad K. Hassan

[View article](#) [PDF](#)**OPEN ACCESS**

012077

Numerical and Experimental Investigation on the Combustion of Premixed Propane – Air Mixtures

Mohammed Kh Abbas Alhumairi, Nazar Aldabash, Yasseen Almahdawi and Ali Khudhair Al-Jiboory

[View article](#) [PDF](#)**OPEN ACCESS**

012078

Influence study of porous material and diameter on heat transmission from corrugated walls cavity

Mays Subhi Sadeq and Zena Khalefa Kadhi

[View article](#) [PDF](#)**OPEN ACCESS**

012079

Dissimilar Arc Stud Welding AISI 304/ AISI 1008: Mechanical Properties

Firas H. Hameed, Muzher T. Mohamed, Sami A. Nawi and Jabbar Gattmah

[View article](#) [PDF](#)**OPEN ACCESS**

012080

Fabrication and Investigation of Bioceramic Scaffolds by a Polymer Sponge Replication Technique

Auday A. Mehatlaf, Saad B. H. Farid and Alaa A. Atiyah

[View article](#) [PDF](#)**OPEN ACCESS**

012081

Thermal performance of double-pass counter flow and double-parallel flow solar air heater with V-grooved absorber plate

Ali M. Rasham and Basim A. R. Al-Bakri

[View article](#) [PDF](#)**OPEN ACCESS**

012082

Thermodynamic analysis with energy recovery comparison of transcritical CO₂ heat pump system using various expansion devices.

Mohammed Ridha Jawad Al-Tameemi, Khuder N Abed, Thamer Khalif Salem and Zhibin Yu

[View article](#) [PDF](#)

OPEN ACCESS

012083

Evaluation of the Mechanical Characteristics of Hybrid Nanocomposite Materials (TiO₂-SiO₂- ZrO₂)

Hala M. Kadhim, Suha I. Al-Nassar, Wessam Al Azzawi, Abeer A. Shehab, Adel K. Mahmoud and Murat Demiral

 [View article](#)  [PDF](#)

OPEN ACCESS

012084

Drawing the Tensile Curve for Pure Metals and Alloys Depending On Crystal Structure and Acoustic Impedance

Arshed Abdulhamed Mohammed and Wessam Al Azzawi

 [View article](#)  [PDF](#)

OPEN ACCESS

012085

Design exploration study of a smart passive window based on NiTi bent actuator

S Alazzawi and P Filip

 [View article](#)  [PDF](#)

OPEN ACCESS

012086

Numerical and experimental Study of Heat Transfer Enhancement in Contour Corrugated Channel Using nanofluid and Engine Oil

Naseer Dawood Khata, Zena Khalefa Kadim and Kamil Abdulhussein Khalaf

 [View article](#)  [PDF](#)

Civil and Environment Engineering

OPEN ACCESS

012087

Influence of lateral cyclic loading on the piled-raft foundation embedded in layered soil

Wafaa A. Saleh and Jasim M. Abbas

 [View article](#)  [PDF](#)

OPEN ACCESS

012088

Effect of vertical loads on pile group response subjected to lateral cyclic loading with different configuration of piles: experimental study

Jasim M Abbas PHD and Aseel K. Mahmood

 [View article](#)  [PDF](#)

OPEN ACCESS

012089

Numerical Model of Seepage Analysis and Slope Stability for Horan Dam H4 in Iraq

Ahmad I Mahmoud, Haitham A Hussein and Zeyad S Khaled

 [View article](#)  [PDF](#)

OPEN ACCESS

012090

Effect of development reinforcement strut in concrete deep beam

Haider K. Ammash and Maryam M. AL-Mousawi

 [View article](#)  [PDF](#)**OPEN ACCESS**

012091

Shear Strength of Gypseous Soil under Soaking Conditions

W A Zakaria

 [View article](#)  [PDF](#)**OPEN ACCESS**

012092

Using internal in-plane k-shape steel bracing as a simple strengthening technique for RC box beams failed in torsion

Ali Hameed Aziz and Muhammad Hussein Abdallah

 [View article](#)  [PDF](#)**OPEN ACCESS**

012093

Groundwater Modeling of Ahmed Taher and Bakhtiari areas southwest of Khanaqin Basin in Diyala Governorate – Iraq

Qassem H. Jalut

 [View article](#)  [PDF](#)**OPEN ACCESS**

012094

Compressive Capacity of Conventional and Under Reamed Piles in Soft Clay

H O Abbas

 [View article](#)  [PDF](#)**OPEN ACCESS**

012095

Review Paper. Utilization of Low-Cost Adsorbents for the Adsorption Process of Chromium ions.

Mohammed Jaafar Ali Alatabe and Ahmed Alaa Hussein

 [View article](#)  [PDF](#)**OPEN ACCESS**

012096

Assessment the relationship between air pollutant concentrations and meteorological factors in Baghdad city, Iraq

Ahmed Alaa Hussein and Zahraa S. Mahdi

 [View article](#)  [PDF](#)**OPEN ACCESS**

012097

A Critical Review on Expansive Soils Including the Influence of Hydrocarbon Pollution and the Use of Electrical Resistivity to Evaluate their Properties

Ameerah T Mosleh and Nesreen K Al-Obaidy

 [View article](#)  [PDF](#)

OPEN ACCESS

012098

Effect of Screw Piles Spacing on Group Compressive Capacity in Soft Clay

Abeer S Jamill and H O Abbas

 [View article](#)  [PDF](#)

OPEN ACCESS

012099

Effect of fibers types on strength of lightweight foamed concrete

H. Rafal Ahmed and Suhad M. Abed

 [View article](#)  [PDF](#)

OPEN ACCESS

012100

Finite Element Model for the Optimization of Steel I-Beam with Variable Depth

T K Mohammedali, A H Mohammed, R D Khalaf and S Sh Sammen

 [View article](#)  [PDF](#)

OPEN ACCESS

012101

A Critical Review of Subgrade Soil Reinforced with Geo-synthetics

Ghusoon H Oleiwi, Haider H Aodah, Nesreen K Al-Obaidy and Kasim Alomari

 [View article](#)  [PDF](#)

OPEN ACCESS

012102

Proposing a new type of DPC to control moisture movements in brick walls

Malik. H. Assi, Noor S. Taresh and Ghufraan Mohammed Aboud

 [View article](#)  [PDF](#)

OPEN ACCESS

012103

Structural behavior of MRPC beams exposure to riverine simulated circumstances using GFRP and CFRP bars

Abeer Hassan Wenas, Wael Shahadha AbdulKareem and Haider Amer Mushatat

 [View article](#)  [PDF](#)

OPEN ACCESS

012104

Using Phase Change Material to Improve Asphalt Pavement Behavior

Maryam Mohammed Salman and Omar Adel Abd Alwahab

 [View article](#)  [PDF](#)

OPEN ACCESS

012105

Explicit and Combined Effects of Blast and Seismic Loadings on Tall Buildings with and without Shear Walls

Ali K. Kadhum and Khattab S. Abdul-Razzaq

 View article  PDF

OPEN ACCESS

012106

Evaluation of Contractors Performance in Iraqi Construction Projects Using Multiple Criteria Complex Proportional Assessment Method (COPRAS)

Nidal Adnan Jasim

 View article  PDF

OPEN ACCESS

012107

Confinement of Concrete by Fiber Reinforced Polymer Tube: A Review

Wrood H. Sachet and Wissam D. Salman

 View article  PDF

OPEN ACCESS

012108

Geopolymer Concrete, Mortar, and Paste: A Review

Wrood H. Sachet and Wissam D. Salman

 View article  PDF

OPEN ACCESS

012109

Effect of dynamic amplitude on response of single pile embedded in collapsible soil

Noor Deia Abd and Safa Hussain Abid Awn

 View article  PDF

OPEN ACCESS

012110

Comparative Study of Structural Behaviour of Reinforced Concrete Box Girder with Different Numbers of Cells

Zahraa Sermed Zuhdiy and Ali Laftah Abbas

 View article  PDF

OPEN ACCESS

012111

Assessment of Flood Frequency Using Maximum Flow Records for the Euphrates River, Iraq

Saeb F. Saeed, Ayad S. Mustafa and Mustafa Al Aukidy

 View article  PDF

OPEN ACCESS

012112

Flexural Behavior of Polypropylene Fiber Reinforced Concrete Beams with Super elastic Wire Under Repeated Loading

Mohammed Munqith Salman, Noor Ayaad Khalaf and Maan K Alobaidi

[!\[\]\(919a2cb85b99741a73c0c31a427236a8_img.jpg\) View article](#) [!\[\]\(c9cd5a1c35167a83f09a35036fe5dcbd_img.jpg\) PDF](#)

OPEN ACCESS

012113

The Traffic Assessment of the Adjacent Arterial Streets Close to Gates of the Main Campus of the University of Mosul, Iraq

M Y Taha and H H Ali

[!\[\]\(003082e50e3009141f59bd5df831749f_img.jpg\) View article](#) [!\[\]\(f439ede8735757e3190eab35e168f1de_img.jpg\) PDF](#)

OPEN ACCESS

012114

Using Wasted Rubber Material for Reducing Loads and Energy Dispersal in Building Industries: State of the Art

Teeba A. Jassim, Bozhou Zhuang, Amer M. Ibrahim and Ibrahim A. Ali

[!\[\]\(4b7a79268f6ba26c1471d4232fffa85a_img.jpg\) View article](#) [!\[\]\(87d978583253c9bde1db2d6dfafe8de0_img.jpg\) PDF](#)

OPEN ACCESS

012115

Adoption PPP model as an alternative method of government for funding abandoned construction projects in Iraq

Huda Yaseen Khudhaire and Hafeth I. Naji

[!\[\]\(56549452e01ca28bdf2500ced9653143_img.jpg\) View article](#) [!\[\]\(235f8f87c36d896db1ddff2848125c86_img.jpg\) PDF](#)

OPEN ACCESS

012116

Diagnosing the Causes of Poor Quality Management in Iraqi Construction Projects Using Technique of Root Cause Analysis

Nidal Adnan Jasim

[!\[\]\(23a2e9ddc7bb0ef55393d38b772a848d_img.jpg\) View article](#) [!\[\]\(cdc5d03852d90f3a0d1df88fd5fca224_img.jpg\) PDF](#)

OPEN ACCESS

012117

Dissolved Oxygen Sag Curve for Diyala River at Baquba City

Muhanad Mohammed Abbas

[!\[\]\(241407ae374027aec4b030ca93d07b05_img.jpg\) View article](#) [!\[\]\(2ddd94f0aad05ea8a6bbcdcd2ddd1d44_img.jpg\) PDF](#)

OPEN ACCESS

012118

Effect of Longitudinal Maximum Spacing of Shear Reinforcement for wide Reinforced Concrete Beams

Mustafa Gawad Taha and Ali Laftah Abbas

[!\[\]\(3f5477a6ad7457d6c5a54da9edc797f0_img.jpg\) View article](#) [!\[\]\(f70bd7d54b854eafe093341e675f1835_img.jpg\) PDF](#)

OPEN ACCESS

012119

Integrity of Revit with structural analysis softwares

A S Hadi, A M Abd and Mohammed Mahmood

[!\[\]\(6f570b68c0ee531e594eca882aeed36a_img.jpg\) View article](#) [!\[\]\(c4b5194b52bb6c99c098ede6b1658559_img.jpg\) PDF](#)

OPEN ACCESS

012120

Structural Behavior of Hollow-core Reinforced Self-compacting Concrete Two-way Slabs

Yahyia M. Hameed and Murtada A. Ismael

 [View article](#) [PDF](#)**OPEN ACCESS**

012121

Effect of Laying Service longitudinal and Transverse Openings on Reinforced Concrete Hollow Beam Web under Flexural Loadings

Ahmed Abbas Ghali Abu Altemen, Amjad Ali K Sharba, Raad Abdulkadim Naser Al Ameri, Mohammed Kahlil Ibrahim and Mustafa Ozakca

 [View article](#) [PDF](#)**OPEN ACCESS**

012122

Shear strength and Characterization of Reinforced Concrete Deep Beams -A Review

Amjad Ali K Sharba, Hussain Dhafir Hussain and Sura Faleh A Alkhafaji

 [View article](#) [PDF](#)**OPEN ACCESS**

012123

Forecasting construction time for road projects and infrastructure using the fuzzy PERT method

Zahraa Kadhim Nemaa and Gafel Kareem Aswed

 [View article](#) [PDF](#)**OPEN ACCESS**

012124

Behavior of eccentrically loaded normal weight concrete encased steel columns at elevated temperature

Noor Al-Huda Al-Talqani and Haitham Al-Thairy

 [View article](#) [PDF](#)**OPEN ACCESS**

012125

A Comprehensive Study of Franki pile with the other pile models Embedded within cohesionless soils

Mahmood R. Mahmood, Makki K. Muhsin and Ahmed M. Abbas

 [View article](#) [PDF](#)**OPEN ACCESS**

012126

Siesmic Response of Single Pile Soil Structure Interaction Effect of Cordera bridge foundation

Saba Ismael Jawad

 [View article](#) [PDF](#)

OPEN ACCESS

012127

Impact of illegal use of storm network on Tigris River using supervised classification technique

Mohammed S. Shamkhi and Nariman N. Abd

 [View article](#) [PDF](#)**OPEN ACCESS**

012128

Studying the effect of hybrid fibers and silica fumes on mechanical properties of Ultra-High-Performance Concrete

Ammar Oudah Al-Mwanes and Reza Agayari

 [View article](#) [PDF](#)**OPEN ACCESS**

012129

Mosul Dam between the threats of imminent collapse

Maha Rasheed Abdul Hameed and Ali Laftah Abbas

 [View article](#) [PDF](#)**OPEN ACCESS**

012130

Structural Behavior of Composite Slabs with Different Geometry of Profile Steel Sheets

Ibrahim A. Ali, Amer M. Ibrahim and Teeba A. Jassim

 [View article](#) [PDF](#)**OPEN ACCESS**

012131

The Effect of inclined intermediate Sheet Pile on Seepage Properties Under Hydraulic Structure Using SEEP/W Program

Ibtihal H. Salim and Burkan Saeed Othman

 [View article](#) [PDF](#)**OPEN ACCESS**

012132

Behaviour of hybrid blend Composite Materials Reinforced by Aluminium Nanoparticles and Glass Fibres

Mustafa A. Rajab, Salem F. Salman and Mohammad K. Abbas

 [View article](#) [PDF](#)**JOURNAL LINKS**[Journal home](#)[Journal scope](#)[Information for organizers](#)[Information for authors](#)[Contact us](#)

Reprint services from Curran Associates

IOPSCIENCE

Journals

Books

IOP Conference Series

About IOPscience

Contact Us

Developing countries access

IOP PUBLISHING

Copyright 2024 IOP
Publishing

Terms and Conditions

Disclaimer

Privacy and Cookie Policy

Text and Data mining policy

PUBLISHING SUPPORT

Authors

Reviewers

Conference Organisers

IOP Publishing open access
policy

Accessibility

IOP

