# IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE)

### **Managing Editor Board**

- Dr. S.Prakash Sathyabama University, India
- ❖ Dr. Idris, Musibaudeen Olatunde The Federal Polytechnic Ede, Osun State, Nigeria
- ❖ Dr. Salah Hamed Ramadan Ali National Institute for Satandards (NIS), Egypt
- Dr. Mohammad Valipour University of Tehran, Iran
- Dr. Abdul Latif Qureshi
  Mehran Univ. of Engg. & Tech., Jamshoro, Pakistan
- Dr. Trouzine Habib
  LGCE, Sidi Bel Abbes University, Algeria

### **International Editorial Board**

- Dr. Said Abdel-Aleem Farag Hawash National Water Research Center (NWRC), Egypt
- Dr. S. K. Mangal PEC University of Technology, India
- Dr. Rajeshkumar U. Sambhe Sant Gadge Baba Amravati University, Amravati, India
- Dr. Aginam, Chukwurah Henry Nnamdi Azikiwe University Awka, Anambra Nigeria
- Dr. Pramod Kumar Gupta IIT Roorkee, India
- Dr. P.Sivaprakash
  Karpagam Institute of Technology, India

### **Contact Us**

Website URL: www.iosrjournals.org Email: iosrjournals@gmail.com Support@iosrmail.org







### **Qatar Office:**

IOSR Journals Salwa Road Near to KFC and Aziz Petrol Station, DOHA, Qatar

### **India Office:**

IOSR Journals SC-89 A, Shastri Nagar, Ghaziabad, UP, India

### **Australia Office:**

43, Ring Road, Richmond Vic 3121 Australia

### **New York Office:**

8th floor, Straight hub, NS Road, New York, NY 10003-9595



# IOSR Journal of Mechanical and Civil Engineering

International Organization of Scientific Research

**IOSR** Journals



## **Contents:**

Contents.	
Study of Using Sum to Improve Digital Archives Integrity of Traditional Architectures with 3D Laser Scanning Technology	01-07
Performance Investigation of Expander-Compressor Unit in Vapor Compression Refrigeration System Using Alternative Refrigerants	08-15
Study on Mechanical Behavior of Aluminum Alloy 6061 Based Composites a Review	16-20
The Effectiveness Of The Utilization Of Pedestrian Bridge (On Perintis Kemerdekaan Road In Makassar City)	21-25
The Operational Utilities Of The Syukuran Aminuddin Amir Airport In Luwuk, Banggai Regency of Central Sulawesi	26-30
Mechanical Properties and Flexural behavior of Papercrete Concrete	31-36
The Effect Of Bagasse Ash Addition In The Eco-Cement Of Egg Shell And Simping Shell To Mechanical Properties	37-40
A Study on Stabilization of Expansive Soil with Ground Granulated Blast Furnace Slag and Flash	41-46
Skills and Competency Gaps Analysis of Motor Mechanics in the Informal Sector: A Case Study for Meru Township in Kenya	47-53
Influential Codes for Optimum Design Parameters of Wide Span Circular R.C. Halls	54-69
Experimental Study of Fins Effect on Thermal Performance of HPHX for Air Conditioning System	70-78
Progression and Forecasting of Steel Demandin Kenya	79-88
Effect of Calcium Salts on the Index Properties of Expansive and Non Expansive Soils In The Presence Of Bagasse Ash and Lime	89-95