

# International Journal of Engineering Research and Applications (IJERA)

**Editor-In-Chief**

**Prof. Manju Sharma**

## Editorial Board Members

Dr. Hadi Arabshahi, Iran

A. K. M Nazmus Sakib, Bangladesh

Dr. Eugen Axinte, Romanian

Dr. Rao, P.hd, USA

Dr. Yaduvir Singh, India

Dr. Aknuas William, Australia

Dr. Shahram Jamali, Iran

## Associate Editorial Board members

Sukumar Senthil Kumar  
Universiti Sains Malaysia,School of Mathematical Sciences,Malaysia

Dr. Prasanta K Sinha  
Durgapur Institute of Advanced Technology & Management, Durgapur

Dr. Bensafi Abd-El-Hamid  
Abou Bekr Belkaid University of Tlemcen,Algeria  
Tamilnadu, India

Dr. A.V.Senthil Kumar  
Director, MCA depart, Hindusthan College of Arts and Science,

Dr. Prasanta K Sinha  
Deputy Director, Durgapur Institute of Advanced Technology & Management,West Bengal

Dr. Suresh Prasad Singh  
H.O.D.(Chemical Engineering), B. I. T. Sindri, Dhanbad

Hari Mohan Pandey  
Middle East College of Information Technology, Under Coventry University, U.K.

Patrick Tiong Liq Yee  
Universiti Teknologi Malaysia, Malaysia,

Dr. V S Giridhar Akula  
Professor and Principal, Avanthi's Scientifi Technological and Research Academy (JNTU), Hyderabad

Dr. Santosh K. Pandey  
Department of Information Technology Board of Studies ,  
The Institute of Chartered Accountants of India

## Contact Details

**Ukraine Office**  
First floor, ST Street,  
Ivano-Frankivsk, 76008, Ukraine

**India Office**  
SC-89, Shastri Nagar,  
Ghaziabad, UP, India

Email: ijera.editor@gmail.com  
Website: www.ijera.com



ISSN 2248-9622  
  
 9 7 7 2 2 4 8 9 6 2 2 0 4 >



# International Journal of Engineering Research and Applications (IJERA)

**Volume 10 - Issue 9  
September - 2020**



All Papers are indexed in Index Copernicus



# International Journal of Engineering Research and Applications (IJERA)

Volume : 10 Issue : 9 : Series-5

ISSN : 2248-9622

September - 2020

## Contents :

**Quantitative Structure-Property Relationship (QSPR) modeling of the second reduction potential of a family of Tetracyanoquinodimethane (TCNQ) molecules using descriptors of quantum chemistry**

*Fatogoma DIARRASSOUBA, Kafoumba BAMBA, Mawa KONÉ, Ahissan Donatien EHOUMAN, Koffi Kan Raymond KOUAMÉ, Nahossé ZIAO*

01-16

**The Operation Parameters of Hydrothermal Liquefaction (HTL) Of Algae into Bio-Oil: A Review**

*Rakhman Sarwono*

17-28

**Study and analysis of privacy preservation and security concerns in big data**

*Tanveer Ahmad Dar, Dr Vikas Lamba, Zubair Ahmad Mir*

29-34

**Applications of Big Data using Wireless Sensor Networks in imparting Smart Nation**

*Zubair Ahmad Mir, Dr Vikas Lamba, Tanveer Ahmad Dar*

35-38

**Implementation of Channel Coding Block for Uplink Base-Band Encoder**

*AHMAD S. ALENEZI*

39-59

**Performance and Evaluation of V<sub>2</sub>O<sub>5</sub> Thin Film Electrode for Electrochemical Supercapacitor: Effect of Electrolytes**

*M. S. Pawar, M. A. Sutar, K. I. Maddani, S. G. Kandalkar*

60-64