

## Editorial

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*International Journal of Engineering and Allied Sciences* (IJEAS) has given substantial emphasis in its values of choosing scholarly activities. Plagiarism matters, excellence of research work and reviewer's remarks were given utmost primacy. The result of such vision will improve the quality of the journal and will help the research community. I would like to thank the authors whose papers have been included in this issue of IJEAS and desire more such scholarly articles in the process of the next issue. In this communication, I take an opportunity to mention some research articles that have been selected for publication in this edition of IJEAS.

The first article appearing in this edition is in the domain of physical science, more specifically in the field of superconductivity. The original research paper entitled "Fractal Nature of Superconducting Percolating Cluster" by Devi Prasad PS tried to explain the percolative behaviour and fractal nature of 123-ortho I phase of YBCO system in detail by Monte Carlo simulation technique. The author observed sharp phase transition curves by increasing the periodicity of the random number generator, exhibiting real phase transition as observed experimentally.

R. C. Gupta in his article, "Photoacoustic spectroscopic study of optical properties of solids" investigate how a photoacoustic spectroscopy can be used to investigate the optical properties of solids. When a chopped intensity modulated light falls on a solid sample, it produces the periodical thermal variation resulting in the acoustic signal. The signal intensity and phase depend on the thermal and optical properties of solid. He used the acoustic signal to study the optical properties of solids.

The article of Manoj Kausik in the field of computational materials. The article, "DFT study of electronic, mechanical and optical properties of Zn-chalcogenides" by Manoj Kausik presents an application of Density Functional Theory to calculate the electronic structure of Be Chalcogenides compound. The electronic structure is further used for the investigation of mechanical and optical properties study. Also he used DFT for the study of thermal properties.

IJEAS also includes a review article entitled "Phytotherapeutic role of medicinal compounds in treating cerebral ischemia" in the domain of medical allied sciences. Prashant Kumar Dhakad and Pramod Kumar Sharma have discussed some plants and their constituents that may guard brain ischemia or delay the neurological syndromes following a stroke. They reviewed those natural compounds with the effects of anti-oxidation, anti-inflammation, calcium antagonization, anti-apoptosis, and anti-excitotoxicity on ischemic brain injury.

I sincerely believe that the researchers will appreciate our endeavor in bringing out the inaugural issue of IJEAS. I express my heartfelt thanks to all the contributors for their scholarly activities in the process of publication of the IJEAS Volume 1, Issue 1.

Bimal Kumar Sarkar  
**Editor-in-Chief**