



Editorial

Journal of Physics Research and Application

Hari Mohan Srivastava*

Professor Emeritus Department of Mathematics and Statistics, University of Victoria, Canada

*Corresponding author: Hari Mohan Srivastava, Professor Emeritus Department of Mathematics and Statistics, University of Victoria, Canada, Email: harimsri@math.uvic.ca

Editorial

Physics from ancient greek means 'knowledge of nature', is the natural science that studies matter, its motion and behavior through space and time, and the related entities of energy and force. Physics is one of the most fundamental scientific disciplines, and its main goal is to understand how the universe behaves. Physics is one of the oldest academic disciplines and, through its inclusion of astronomy, perhaps the oldest. Over much of the past two millennia, physics, chemistry, biology, and certain branches of mathematics were a part of natural philosophy, but during the Scientific Revolution in the 17th century these natural sciences emerged as unique research endeavors in their own right.

Physics intersects with many interdisciplinary areas of research, such as biophysics and quantum chemistry, and the boundaries of physics are not rigidly defined. New ideas in physics often explain the fundamental mechanisms studied by other sciences and suggest new avenues of research in academic disciplines such as mathematics and philosophy.

Journal of Physics Research and Application is a peer-reviewed multidisciplinary journal. It covers theoretical, experimental as well as computational and numerical methods for exploring structures of Physics.* Edited and reviewed by experts who contribute to the setting and improvement of standards procedures.* The journal publishes articles on: Modern physics, General physics, Applied physics, Condensed matter physics, Mechanics, Thermodynamics and statistical mechanics, Nuclear physics, Earth physics, Electronics, Electromagnetic, Mathematical physics, Quantum mechanics, High energy physics, Astrophysics, Biophysics, Material science and Engineering.

Journal of Physics Research and Application is a peer-reviewed multidisciplinary scholarly journal aims to publish reliable source of scientific information on Physics Research and applied fields. The journal provides platform for the scientists who has expertise in physics science disciplines for conducting experimental and theories on progress of physics research and its significant advances.

Journal of Physics Research and Application accepts only original articles applied to all areas of pure physics. Some of the keywords are:

Applied Physics

Applied physics is the application of the science of physics to helping human beings and solving their problems. It differs from engineering because engineers solve well-defined problems. Applied physicists use physics or conduct physics research to develop new technologies or solve engineering problems. It is usually considered as

a bridge or connection between physics and engineering. Applied physicists can also be interested in the use of physics for scientific research.

Biophysics

Biophysics has been critical to understanding the mechanics of how the molecules of life are made, how different parts of a cell move and function, and how complex systems in our bodies—the brain, circulation, immune system, and others—work. Biophysics is a vibrant scientific field where scientists from many fields including math, chemistry, physics, engineering, pharmacology, and materials sciences, use their skills to explore and develop new tools for understanding how biology—all life—works.

Physical scientists use mathematics to explain what happens in nature. Life scientists want to understand how biological systems work. These systems include molecules, cells, organisms, and ecosystems that are very complex. Biological research in the 21st century involves experiments that produce huge amounts of data. How can biologists even begin to understand this data or predict how these systems might work?

This is where biophysicists come in. Biophysicists are uniquely trained in the quantitative sciences of physics, math, and chemistry and they are able tackle a wide array of topics, ranging from how nerve cells communicate, to how plant cells capture light and transform it into energy, to how changes in the DNA of healthy cells can trigger their transformation into cancer cells, to so many other biological problems.

Biophysicists work to develop methods to overcome disease, eradicate global hunger, produce renewable energy sources, design cutting-edge technologies, and solve countless scientific mysteries. In short, biophysicists are at the forefront of solving age-old human problems as well as problems of the future.

Earth Physics

Earth science or geoscience includes all fields of natural science related to the planet Earth. This is a branch of science dealing with the physical and chemical constitution of the Earth and its atmosphere. Earth science can be considered to be a branch of planetary science, but with a much older history. Earth science encompasses four main branches of study, the lithosphere, the hydrosphere, the atmosphere, and the biosphere, each of which is further broken down into more specialized fields.

There are both reductionist and holistic approaches to Earth sciences. It is also the study of Earth and its neighbors in space. Some Earth scientists use their knowledge of the planet to locate and develop energy and mineral resources. Others study the impact of human activity on Earth's environment, and design methods to protect the planet. Some use their knowledge about earth processes such as volcanoes, earthquakes, and hurricanes to plan communities that will not expose people to these dangerous events.

Journal of Physics Research and Application was started in 2107 and its hybrid one means both open access and subscription based. The journal accepts all types of write ups related to physics and our journal follows double blind peer reviewed process. It accepts short

communication, short review papers, articles, letter to editor beside full length articles.

We have already published some articles in this year which are on radiography and Viscoelasticity.

The article by Osman H (Vol-4: issue 1) described how neutron scattering correction conducted by MATLAB perfectly eliminates the blur in the NR image. This measurement validates the method to be successfully applied for quantitative measurement.

In volume 3 Issue 1 there is a short communication on gravity which gives a detailed explanation on gravity with light and universe by Schroeder P. There is another article by Javad Fardaei on gravity entitled "Gravity is a Myth" in which gives all the explanation on all aspects of gravity.