

Editorial, Volume 4 (2019)

On behalf of the Editorial Board, it is with great pride and sincere privilege that I am writing this message to present the volume 4 (2019) of the *To Physics Journal*. The issue comes from a long process, and we took all the necessary steps to make it a high-caliber scientific publication. We are relying on the collaboration of all our Editors, reviewers, and contributors to make it a contemporary, lively, and relevant publication.

This issue features 11 scientific papers from various subjects on the scope of the journal. It is clear from this collection of articles that the research in this particular area is flourishing. It is hoped that this article will motivate researchers to contribute to the future advancement of this interesting research area.

The first contribution is by M. Mahdavi, F. Vaziri. This study aims to investigate the effect of time-dependent electric fields on growth rates of Weibel instabilities in diluted plasma systems at the presence of relativistic electrons and also non-relativistic background electrons, where pseudo-Maxwellian distribution functions were used for both electrons in kinetic theory

In the second paper, by Rosen Iliev, Boyko Rangelov, reveals the fractal structure of gas giants and their moons. For this purpose, fractal analysis of Jupiter, Saturn, Uranus, Neptune, and 182 moons was performed based on their radius (size).

In the third paper by Abdelmadjid Maireche, three-dimensional modified radial Schrödinger equation has been performed for the generalized Hellmann–Kratzer potential model by using the improved approximation scheme to the centrifugal term for any l-states and generalized Bopp's shift method

The fourth paper is by Majid Farahmandjou, Somayeh Shadrokh, Ali Moghimi, In this research, rod-like shaped cobalt oxide magnetic nanoparticles (Co_3O_4) were synthesized by simple co-precipitation method using cobalt chloride as precursor and sodium borohydride (NaBH_4) as reducing agent.

The fifth paper, by A.U. Anonaba, U.S. Mbamara, and E.C. Mbamala, study shows that *Ananas Comosus* stalk has low thermal conductivity but high thermal resistivity compared with those of other good thermal insulators.

In the sixth paper, by Nasibeh Delfan, Amir Pishkoo, Mahdi Azhini, the rule of forming Cantor set (for just the first iteration) is used to compare the radiation of single ideal dipole and two smaller ideal dipoles made in the first iteration.

In the seventh paper, by Rosen Iliev, the study focuses on the spatial-temporal relationships of the bare surfaces with the local environment within the Bulgarian part of the small border mountain of Ograzhden.

The eighth paper, by Boris Georgievich Golovkin, shown that all possible distributions of molecules of an ideal gas with zero dimensions of monatomic molecules that collide elastically with each other are in equilibrium, and with nonzero dimensions, an equilibrium universal distribution of the gas molecules along with the velocities and angular momentum must arise.

In the ninth paper, by Augusto Espinoza and Andrew Chubykalo has shown that, by virtue of the existence so-called electrokinetic field encountered in electromagnetic phenomena, a new form of the energy density of the electromagnetic field is obtained.

In the tenth paper, by Takeo R.M. Nakagawa and Ai Nakagawa, is concerned with intelligent virtual agents with reference to the soft turbulence in Bénard convection. It is found that the super complex systems can be only explored by syntheses together with intuition and/or imagination.



Finally, In the paper by Fakhri Khajvand Jafari, Mohammad Reza Mardanbeigi, Amir Pishkoo, discusses about the fractal Taylor series for fractal elementary functions, sine, cosine, exponential function, etc. and then we compare the graph of these fractal functions with their counterparts in standard calculus on the interval $[0,1]$. To Physics Journal has adopted new policies in 2019.

We welcome new Editorial Board members who began their terms in 2019, and We thank Editorial Board members who rotated off the Board in 2019.

As an Editorial team, our goal for 2020 is to build on the good foundation laid in 2019, improve the reputation of the journal and improve its indexing databases, citation, and impact factor. In this regard, we welcome articles/papers that cover wide-ranging topics in Physics Journal.

We are also committed to making speedy editorial decisions. Quality reviewer reports first editorial decisions within 6–8 weeks, and second (and final) editorial decisions within 4 weeks' of receiving revised papers are all part of our vision for taking the journal forward.

We promise to improve and promote our role in this partnership and therefore look forward to your valued contributions to the journal in 2020.

Finally, I would like to take this opportunity to show gratitude to all of the authors, referees, and Editorial Board members for their immense efforts and contributions in making this issue valuable reading for all who are fascinated by the recent advancements in the various arena of chemistry. I anticipate that the readers will definitely enjoy the contributors' work published in this issue as much as we have. Finally, I wish you a happy and wonderful 2020.

Chief Editor

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