



Editorial note



Prof. A.A. Farghali



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In this year, we celebrated the ranking of our university “Beni-Suef University” as the 1st Egyptian University, 601-800 world wide and 301-400 in the physical sciences, 101-150 in the young universities as Times Higher Education published. It is also a great pleasure to announce that for the 1st time we are included at Shanghai ranking (901-1000). We are willing to compete next year on advanced positions.

Faculty of Postgraduate studies for advanced sciences (PSAS) is an exclusive faculty, a 1st class learning place that relocates you from multidisciplinary, interdisciplinary to transdisciplinary research in FOUR main departments working collectively to achieve the best prototypical education on both regional and international level.

PSAS is distinguished by an expertly qualified team working together with a large number of research facilities in the specified laboratories.

It is gratifying to note that the agenda of the conference covers a wide range of very interesting items related to the nanotechnology, biotechnology, environmental sciences and all energy related subjects and especially those directly related to aspects of all advanced sciences.

We are aware of the tremendous effort made, by all faculty members from day 1 up until now.

No matter how much we can do by ourselves on the national level, whether it be research or development, it is never enough. In a spirit of true cooperation, we were proud to announce for the first time reviewing and publishing international proceedings in IOP conference series: materials science and engineering. The editorial board of this issue Dr.A.A.Farghali and Dr.A.H.Zaki and Dr.S.I.El-Dek.

We can, and must, track PSAS as a multi-dimensional concept, encompassing the economic, social, institutional and physical elements of the excellent research educational platform, in a wider sense, it would be relatively easy to affect the necessary adjustments for a truly effective cooperation on the regional and international basis. This is fully consonant with our official position taken and the full support of the concept of internationalization





This special issue on “Materials sciences and engineering” resulted from the 2017, 4th International conference on advanced sciences ICAS4, held in Hurghada, Egypt on 7-10 th November, 2017. This international conference is the 4th one organized by our group at the Faculty of postgraduate studies for advanced sciences brought together academics, scientists, engineers and postgraduate students to exchange and share their knowledge and research results on all aspects of multidisciplinary sciences and to discuss practical challenges and solutions. The topics covered include:

- Materials Sciences and Nanotechnology
- Biotechnology and life sciences
- Renewable energy science and engineering
- Environmental science and industrial development.

The event was coorganized with Vigo University-Spain and the ENNN (Egyptian national nanotechnology network) and sponsored by many Egyptian industrial communities. Following the submission of abstracts to the international conference, 10 extended full papers have been reviewed from 25 categorized in Materials science and nanotechnology session and chosen for inclusion in this special issue. Collectively, these papers have addressed several key issues. I am therefore delighted to present these papers for all readers.

