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Latest trends in nanotechnology for developing renewable energy solutions

The rapid universal energy crisis, environmental pollution, and human impact on the climate accelerate the search for new material to evolve renewable energies which have different characteristics such as environment-friendly, cost-effective and highly efficient. These issues motivate researchers around the globe to develop new solutions for replacing the traditional fossil-based energy resources and studying different materials to enhance their structural and optical properties for using them effectively in solar cells, sensors, and other applications. Nanotechnology acquiring a lot of attention currently and large expectations have been built in the academic community as well as industry and investors to fabricate and evolve new structures at the nanoscale as well as adjusting their parameters such as energy band gap and efficiency to produce novel materials and devices in many applications and different fields. The purpose of this presentation is to cover the most recent advances of nanotechnology in sustainable energy applications. Solar cells are described as the most significant example of the contributions of nanotechnology in the energy sector which is the ultimate solution to one of the great challenges of our lifetime, i.e., the production and use of energy, without compromising our environment.

Biography

Ali Abu Odeh working currently as a Lecturer at Khawarizmi International College, United Arab Emirates. Prior to this position, I worked in the college of engineering in United Arab Emirates University and Qatar University. I earned my Ph.D. degree in Nanoelectronic Engineering from University Malaysia Perlis in January 2018. His master degree was in Electrical and Computer Engineering from New York Institute of Technology since 2007. At the Institute of Nano Electronic Engineering (INEE) of University Malaysia Perlis, I gained exposure to research in solar cell and biosensor applications. He published many ISI and Scopus indexed papers with impact factor. He is an editorial board member of International Journal of Nanotechnology and Application (IJNA). Also, I served as a reviewer, session chair and committee member of many conferences. I received two awards for my researches in University Malaysia Perlis.

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