Special Issue

Luminescent Functional Polymers and Polymer Composites

Message from the Guest Editors

Recently, owing to their diverse structural and molecular designand rich photophysical properties, novel photofunctional polymer materials and polymer composites have been widely and wisely used in the fields of biomedical engineering, electroluminescence, organic solar cells, biological sensing and imaging, photodynamic therapy, and more. Synthetic chemists have been able to design and prepare a wide variety of photofunctional polymer materials and polymer composites. Structural studies of these materials have revealed the presence of novel photophysical phenomena, allowing a deeper understanding of the structure–property relationships and extending their potential applications, for example, into the fields of biomedical engineering, tumor therapy, transdermal drug delivery systems, electroluminescence, and organic solar cells. Thus, synthetic efforts in this field have produced a large number of photofunctional polymer materials and polymer composites with rich photophysical properties.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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