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PREFACE

Preface

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The Tunisian Chemical Society (TCS) organized the third edition of the Science and Engineering of Polymeric Materials conference (SEPM 2018) in Sousse, Tunisia from 18 to 21 March 2018. SEPM is now an established conference that brings to light the latest developments in the field. During the Third SEPM, 11 renowned speakers gave outstanding invited lectures on click chemistry in polymer science, vitrimers, self-healing polymers, biosourced materials and polymers for life science, to name but these aspects.

In this issue, we feature 3 papers from invited speakers at SEPM 2018. Elisabetta Ranucci and her co-workers summarize the recent developments on polyamidoamines for biomedical applications, while the team of Mehmet Tasdelen features the growing role of click chemistry in the design of new polymeric architectures. Finally, Tobias Robert and his research group shed a light on 1,3-propanediol as diol derived from renewable resources (instead of petrochemical derived diols) for the making of polyesters for resin applications.

In the same area of research, this issue contains a study by Iroegbu and Hlangothi on furfuryl alcohol as a versatile, eco-sustainable compound from non-edible lignocellulosic agricultural biomass for the making of several materials such as polymer concrete and resins.

The issue also contains other contributions which concern interpenetrated porous materials from semi-interpenetrating polymer networks, soy polymer for anti-corrosion applications, copper-containing polyether thin films, and inorganic silica-based polymer capsules loaded with MgO nanoparticles.

In this issue, we also feature 3 contributions by invited speakers to another event: Matériaux et Applications aux DIspositifs et CApteurs (MADICA 2018), namely Vlastimil Matějec (saliva pH optical sensor), Aziz Amine (microRNA-21 detection using glod/carbon nanostructures) and Claire Bordes (sensors based on Surface-Enhanced Raman Scattering gold substrates).

MADICA is a scientific event with a long history in Tunisia. The 11th edition of MADICA was held in the city of Mahdia, Tunisia from 6 to 8 November 2018. It gathered experts in materials science and technology for micro- and nanotechnologies for chemical sensors, biosensors, optoelectronic devices and microsystems.

This second issue of Chemistry Africa (CHAF), in its second year/second volume, highlights the intense activity of our peers in Tunisia in organizing remarkable scientific events in chemistry that gather renowned speakers, experts and newcomers in the respective fields of polymer science and engineering, as well as sensors and actuators. Chemistry Africa will pursue playing its crucial role as a niche for the best research studies in Tunisia, Africa and worldwide.

We do hope that readers of CHAF will enjoy the content of this issue and find it valuable for their actual fundamental and applied research on chemistry of polymers and sensors.

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