

^{3rd} International Conference on PHARMACEUTICS & NOVEL DRUG DELIVERY SYSTEM & ^{3rd} International Conference on

CHEMICAL ENGINEERING & TECHNOLOGY

Conducting polymers and their application

Feddaoui Oussama Ferhat University, Algeria

Polymers are usually organic substances consist of a very large molecules number, polymers are divided according to their mechanical properties and strength into 3 categories: elastomers, plastics, and fibers .Plastics are typical organic polymers with saturated macromolecule and are generally used as excellent electrical insulators. Since discovery of conductive Polyacetylene (PAc) doped with iodine in late 1970s, the focus on the research for similar materials based on π -conjugated structures led to the development of the electrically conducting polymers and this new field of conducting polymers are established due to their low cost, low density, mechanical flexibility and easy processability. That discovery made Alan.G.Mac

J Pharm Sci Emerg Drugs 2018, Volume:6 DOI: 10.4172/2380-9477-C8-027

December 05-06, 2018 Dubai, UAE

Diarmid. Hidiki Shirakawa and Alan Heeger earned the Noble Prize in Chemistry in 2000, it has a great applications in day to day life. Among the conducting polymers there are 2 types: extrinsic and intrinsic one, extrinsic CPS conduct electricity in pure form while the intrinsic Cps conducts by adding external impurities (doping). Nowadays conducting polymers as functionalized materials hold a special and important position in the field of materials sciences. Due to their unique conductive properties, CPS is usually employed in important applications among them: printable electronics, solar cells, batteries, actuators, sensors etc.

dortumondibvb@gmail.com