

Presentation

Since the Stone Age, materials have been part of everyday life and human history. Over time, they have become more resilient, smarter to give the objects around us new features. Discover the major families of materials, the scientific approach associated with the design of a new material and the issues of materials in the fields of environment, energy, health and information technologies and the communication seems to be an extremely important challenge for researchers around the world. Research and development in the field of new materials is important because they largely condition the scientific breakthroughs and technological innovations of tomorrow. Materials are often the key to the development of a technology. For example, the democratization of phones and laptops has been allowed in part because of research and development efforts on the materials of the charging batteries of these devices. Materials play a leading role in our society.

Nevertheless, their production and use are not always compatible with a sustainable development perspective. This is particularly the case for organic materials (most often from petroleum products) and hybrid (that is to say, containing an organic part and another inorganic). In addition to being derived from non-renewable raw materials, the preparation and use of such materials is most often harmful to the environment. The research must naturally focus on the development of new methods for the production of such materials. These methods need to be greener, so more environmentally friendly.

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The etymology of the term "organic" is historical. Organic chemistry was, in the beginning, the chemistry of the substances formed by living organisms (plants and animals) by means of a mysterious "vital force." A characteristic of carbon consists in the aptitude of its atoms to be linked to each other by covalent bonds, in an almost indefinite manner, to form carbon chains of great diversity which characterize the so-called "organic" molecules. These carbon chains constitute the skeleton of organic compounds. Organic materials are another family of materials that can be used in a variety of important areas such as electronics, molecular-scale engineering, optics, 3D printing, inhibition of corrosion and pharmacology.



FST Fès

Participation fraters

Students	800 DH
University professor	1000 DH
Industrials	2000 DH

N.B : accomodation is not included

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Registration form

(newsletter to return before **January 24 , 2020**)

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