

Energy Colloquium

High Energy Chemistry: Principles, Implications and Applications

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Skolkovo Innovation Center

Technopark, Building 3, Room 402



ABSTRACT:

High energy chemistry may be defined as a specific field of chemical physics dealing with molecular systems under strongly non-equilibrium conditions. In a wide context, it is related to chemical reactions induced by ionizing radiation, light, discharge plasma, ultrasonic waves, etc. This talk will briefly introduce basic concepts in this area with particular impact to the radiation chemistry. It will focus on the principal features of such processes resulting from involvement of different unrelaxed states and spatial inhomogeneity of the primary chemical events. The second part of the talk will present an overview of existing and emerging technologies based on radiation chemistry, including modification of polymers, fabrication of different-type nanostructures, manufacturing hydrogels and other materials for biomedical applications.

Non-Skoltech attendees should request access to the building in advance by sending their passport details to energy.colloquium@skoltech.ru

Colloquium schedule and information on how to get to the colloquium can be found at <http://www.skoltech.ru/en/energy-colloquium/>