



Ruđer Bošković Institute

COLLOQUIUM

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III WING LECTURE HALL
RUĐER BOŠKOVIĆ INSTITUTE

APPLICATION OF HYDROGEL IN BIOSCIENCE

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Hydrogels are hydrophilic, three-dimensional and cross-linked polymeric networks capable of imbibing water or biological fluids. Owing to high water content, soft consistency and porosity, hydrogels resemble natural living tissues closely and have been employed in potential applications such as cancer therapy, tissue engineering, bio-sensing, etc. Herein, we will introduce our work on the application of hydrogel in magnetic induction hyperthermia, photothermal therapy, drug delivery, traditional Chinese massage, etc.



PROFESSOR WEI ZHANG

Wei Zhang obtained his Ph.D in University of Leeds, UK in 2008 and then he worked at the Institute of Advanced Technology in University of Surrey, UK. In 2011, he joined Dalian University of Technology. Prof. Zhang's research interests include hyperthermia therapy of cancer, hydrogel for drug delivery and tissue engineering, mechanics of tissue and cell. He has published over 90 SCI journal papers as the first/corresponding author, which have received over 2000 citations with an H-index 24. He has been granted 30 Chinese invention patents, one US patent and 10 software copyrights. He is the Associate Editor of Beni-Suef University Journal of Basic and Applied Sciences, Editor of Modern Chemical Research. He is the principal investigator (PI) of one project and one sub-project of National Key Research and Development Project of China. He is also the PI of 13 projects of National Natural Science Foundation of China, Ministry of Science and Technology of China, and Ministry of Education of China, etc.
