

## Professor Yuri Aristov

Boreskov Institute of Catalysis  
(BIC), Novosibirsk, Russia

***Adsorption heat transformation and storage: Opportunities and challenges***



**Professor Yuri Aristov** received his BSc and MSc in Mechanochemistry from the Moscow Physico-Technical Institute (1977), PhD in Catalysis (1984) and Doctoral Degree in Energy Storage/Transformation (2003) from the Boreskov Institute of Catalysis (BIC), Novosibirsk, Russia. Currently he is a Professor of Physical Chemistry (2007), the Leading Scientist and a Head of Group of Energy Accumulating Materials and Processes at BIC.

His research interests cover radiation chemistry, low temperature electron tunneling, fractal analysis of porous solids, thermochemical heat storage. He is currently working on adsorptive systems for transformation/storage of low temperature heat as well as on novel composite sorbents for heat storage, gas drying, maintaining relative humidity, regeneration of heat and moisture in ventilation system, etc. He is an author of more than 230 papers in peer-reviewed journals (cited in Scopus > 6,000 times, h-factor = 45), 28 patents, 8 book chapters and 2 books. Prof. Aristov (with co-authors) received the Koptuyug Memorial Award of the Russian Academy of Sciences on the sorption heat conversion technologies and apparatuses (2013).

Thursday  
**26<sup>th</sup> November 2020**  
9am (GMT)  
Zoom

## Dr Devrim Aydin

Eastern Mediterranean  
University, Cyprus

***Recent developments and future directions on sorption based energy storage applications***



**Dr Devrim Aydin** completed his PhD at The University of Nottingham, UK, in 2016 and he is currently working as an Assistant Professor at the Department of Mechanical Engineering, Eastern Mediterranean University, Cyprus. He is experienced on absorption materials and processes, heat storage and solar thermal systems, evaporative cooling and desiccant technologies. Dr Aydin has worked on a number of funded projects on absorption heating and cooling and published over 40 papers in refereed journals and conferences. He is the supervisor/co-supervisor of several MSc and PhD students. Dr Aydin is currently researching the development of efficient composite materials and processes for absorption/adsorption based heating, cooling and energy storage. He is a regular reviewer of several journals including Energy Conversion and Management, Renewable Energy and Applied Thermal Engineering.

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