Which model has supercapacitor in St Petersburg Russia

Can a metal-polymer composite be used to make flexible supercapacitors?
A research team comprising scientists from Tomsk Polytechnic University has developed a metal-polymer composite which exhibits high electrochemical activity. As demonstrated by colleagues from St. Petersburg,the obtained material,following functionalization,can be utilized in the fabrication of flexible supercapacitors.

What equipment was used in the St Petersburg University Research Park?
The team of scientists used the infrastructure of the St Petersburg University Research Park, namely the equipment of: the Centre for Physical Methods of Surface Investigation; the Centre for X-Ray Diffraction Studies; and the Interdisciplinary Resource Centre for Nanotechnology.

Can metal nanoparticles be used in supercapacitors?
In a collaborative effort, TPU chemists and scientists from St. Petersburg have developed an electrically conductive metal-polymer composite on a polymer substrate for use in supercapacitors. In this regard, metal nanoparticles were deposited onto polyethylene terephthalate (PET) and then fused into the polymer surface by laser processing.

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How to model a supercapacitor? Here, it is shown that consistent modelling of a supercapacitor can be done in a straightforward manner by introducing a dynamic equivalent ...

The problem of energy extraction from a supercapacitor (within the given duration tau) under an impulse load has been considered. It has been shown that for each tau there exists an optimal ...

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Physicists from St Petersburg University develop a new method of bonding carbon nanotubes to a substrate for supercapacitors Scientists from St Petersburg University, Omsk ...

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The findings of St Petersburg University scientists will significantly improve the efficiency of pulse power sources that generate a large amount of energy in a short time. ...

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