



Seminario de Estudiantes 2017-A

Invita a la charla

“Silicon microwires by a combination of chemical etching techniques for application in Li ion batteries”

Presenta

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RESUMEN:

The development of portable devices requires new forms of energy storage. At the present days the most commonly used anode material is graphite, because of its low production cost, but it can only provide a capacity of 330 mAh/g. Si has a nominal capacity of 4200 mAh/g, but in its bulk state is useless as an anode, because the incorporation of Li leads to a volume expansion of up to a factor of 4, and the resulting stress fractures the material into dust making it lose electric contact during cycling. A promising solution to this problem is to microstructure Si as arrays of wires. It is proposed the fabrication of silicon wires by the combination of two methods. It is intended to produce wires at a low cost.

Fecha: **21 de febrero de 2017**

Lugar: **Auditorio del IFUAP, Edificio IF1**

Horario: **16:00 hrs.**