

A. Denumirea postului: Asistent cercetare stiintifica, ACS

B. Durata angajarii: determinata (2016-2017)

C. Surse de finantare: proiectele de cercetare 2012-2017

D. Conditii de participare

- Doctor sau doctorand cu sustinerea tezei in 2015
- Experienta in:1) convertori electrochimici de energie: supercapacitori, baterii, pile de combustie, 2) materiale carbonice nanometrice (grafene, oxid de grafene, nanotuburi), lichide ionice, 3) prelucari CNC- laser, interactia materialelor polimere cu radiatia laser, 4) proiectare in solid works

E. Tematica

- Elaborarea si realizarea de supercapacitori miniaturizati pe baza de materiale carbonice nanometrice
- Prelucrarea materialelor polimere prin piroliza laser
- Metode de sinteza -conversie a materialelor carbonice in oxid de grafene, reducerea oxidului de grafene la grafene

F. Bibliografie

Conway, B. E. (1999). Electrochemical Supercapacitors: Scientific Fundamentals and Technological Applications. New York: Plenum Publishers.

Srinivasan, S. (2006). Fuel Cells: from Fundamentals to Applications. Springer

Kirby, B. J. (2010). Micro and Nanoscale Fluid Mechanics: Transport in Microfluidic Devices. Cambridge University Press.

Simon, P., & Gogotsi, Y. (2008). Materials for Electrochemical Capacitors. Nature Materials, 5, 987-994.

Gao, W. (Ed.). (2015). Graphene Oxide: Reduction Recipes, Spectroscopy, and Applications. Springer.

Rapid prototyping: http://www.efunda.com/processes/rapid_prototyping/intro.cfm; Solidworks-tutorials

G. Probe concurs

- Proba scrisa; 2) Proba practica: verificare cunostinte si abilitati lucru cu masini CNC-Laser, proiectare solidworks

H. Fisa postului: 1) Dezvolta/ aplica metode experimentale specifice proiectelor de cercetare, 2) Elaboreaza modele si prototipuri experimentale, 3) Elaboreaza modele teoretice si experimentale 4) Participa la activitatile proiectelor de cercetare, 5) Redacteaza , elaboreaza rapoarte de cercetare, manuscrite publicatii

Director Centru
Prof Ioan SPAMATIN

Proiectele sunt finantate pentru persoane

01.01.2016 - 31.12.2017



Existo post vacant

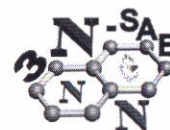




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Research Centre: 3Nano-SAE: Nanosciences – Alternative Energy Sources

Comisia de concurs

Presedinte: prof univ dr ioan STAMATIN

Membrii: Lect dr Sanda Voinea

Lect dr Catalin Berlic

Secretar: Gabriela Lubascu

Director Centru
Prof ioan STAMATIN

