

Shervin Khakpour



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Current Position:

- Early-Stage Researcher November 2013
Institute on Membrane Technology, National Research Council of Italy (ITM-CNR)
Project title: “*Bioartificial liver using hepatocytes and endothelial cells*”.
- Ph.D Candidate November 2013
Department of Chemical Engineering & Materials, University of Calabria

Grants:

- Marie Curie Fellowship (ESR) November 2013 – October 2016
Initial Training Network “*BIOART - Training network for developing innovative (bio)artificial devices for treatment of kidney and liver disease*”.

Trainings:

- Professional Doctorate in Engineering (PDEng) April 2013 – October 2013 (Resigned)
Product and Process Design (PPD), Eindhoven University of Technology, Eindhoven, The Netherlands.
Subjects: Applied Statistics, Polymer Reaction Engineering, Polymer Physics, Polymer Rheology, Polymer Processing, Process Economics, Project Management, Methods and Techniques for Design, Product Design, Professional Development.
- M.Sc Internship October 2011 – January 2012
Membrane Biochemistry & Biophysics group, Department of Chemistry, Faculty of Science, University of Utrecht.
Subject: “*Heat-Induced Tranexamic Acid Release from Thermosensitive Liposomes*”.

Education:

- M.Sc Chemical Engineering April 2012
Delft University of Technology, Delft, The Netherlands. (Faculty of Applied Sciences scholarship)
Thesis: “*In vitro study towards Magnetic Drug Targeting: Development of an Optical Technique for Investigation of Particle Distribution and Local Capture Efficiency*”.
- B.Sc Chemical Engineering July 2009
Sharif University of Technology, Tehran, Iran.
Thesis: “*Mathematical Modeling of a Slurry Reactor for Direct Synthesis of Di-Methyl Ether from Syngas*”.

Skills:

- Languages: Persian (native), English (advanced), French (basic), Arabic (basic).
- Software: Matlab, Aspen, Hysys, Pipesys.
- Experimental skills: Preparation and characterization of SPIONs and Liposomes, PDMS channel fabrication, dynamic light scattering, spectrophotometry, spectrofluorometry, size exclusion chromatography, optical density measurement, hemocytometry.

Research Interests:

Transport phenomena in biological systems ~ Tissue engineering, Biomimetic bioartificial organs ~ Nanoplatfrom-assisted drug delivery, targeting and controlled release ~ (Multifunctional) nanomaterials for therapeutic/diagnostic applications and tissue regeneration.