

DENİZ SANLI, PhD

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EDUCATION

- Post-doctoral Researcher** Koc University Tupras Energy Center (KUTEM), Istanbul, Turkey
2014-2015 Project: *Investigation of catalytic activity of fresh and spent hydrocracking catalysts* and surface characterization of various metal oxide hydrocracking and hydrotreatment catalysts
- Ph.D.** Koc University, Istanbul, Turkey
2009-2014 Chemical and Biological Engineering
Thesis: *Development of nano-structured composites of silica aerogels with polymers for thermal insulation*
- M.Sc.** Koc University, Istanbul, Turkey
2007-2009 Chemical and Biological Engineering
Thesis: *Determination of statistical correlations between methylated lysine residues Histone H3 tail by molecular dynamic simulations*
- B.Sc.** Istanbul Technical University (ITU), Istanbul, Turkey
2002-2007 Chemical Engineering
Graduation Project: *Biodegradation of Poly(lactic acid)*

PROJECT EXPERIENCE

- 2009-2013** NANOINSULATE: *Development of Nanotechnology-based High-performance Opaque & Transparent Insulation Systems for Energy-efficient Buildings*
Collaborative Research Project granted by European Commission 7th Framework Program for Research, Technological Development and Demonstration (FP7)
- 2009-2013** TRANSVIP: *Development of Transparent Vacuum Insulation Panels*
German-Turkish Research and Development project involving science and industry (2+2 projects) in selected scientific fields within the framework of the Turkish-German Scientific and Technological Cooperation
- 2007-2009** KANILTEK (Cancer Drug Technologies) project, established by a three year long support from DPT (Governmental Planning Organization)

WORKSHOPS

- June 2013** Sustainable Manufacturing of Nanomaterials and Their Organization for Hybrid Device Structures
- July 2011** Life Long Learning Intensive Course: Supercritical Fluids – Green Solvents in Chemical Engineering, Belgrade, Serbia.
- October 2010** International Summer School on Aerogels, Cologne, Germany.
- July 2010** Life Long Learning Intensive Course: Supercritical Fluids – Green Solvents in Chemical Engineering, Budapest, Hungary.

ACADEMIC ACHIEVEMENTS

- Outstanding Achievement Award, Graduate School of Science and Engineering, Koç University.
- Ph.D. graduation; with high honorary degree (GPA: 3.96/4.00), September 2014.
- M.Sc. graduation; high honorary degree (GPA: 4.00/4.00), ranking: 1st in the Chemical & Biological Engineering department as well as in Graduate School of Science and Engineering, June 2009.
- B.Sc. graduation; honorary degree (GPA: 3.41/4.00), ranking: 4th in Chemical Engineering department, 5th in Chemical & Metallurgical Faculty, June 2007.

HONORS & SCHOLARSHIPS

- Research grant for the TRANSVIP project from The Science and Technology Council of Turkey (Tubitak) #109M391
- Research grant for NanoInsulate Project from European Union Seventh Framework Program (FP7/2007 – 2013) under grant agreement no. NMP4-SL-2010-260086.
- Koç University annual scholarship for academic expenditure (2007-2013)
- Koç University full scholarship (including tuition and monthly stipend) during Ph.D. education (2009-2013).
- The scientific and technological research council of Turkey (Tubitak) Full Scholarship during Ph.D. education (2009-2014).
- Koç University full scholarship (including tuition and monthly stipend) during M.Sc. education (2007-2009).
- The scientific and technological research council of Turkey (Tubitak) full scholarship (monthly stipend) during M.Sc. education (2007-2009).

IT CAPABILITIES

- Operating System: Linux, Windows 2007, XP, 7, IOS
- Programming Languages: Python, Fortran
- Molecular Simulation and Computation Software: NAMD, Gaussian, Chemoffice, Chemdraw, Ligandscout, iLibDiverse, Accelrys Discovery Studio Visualizer, VMD, ClustalW, Autodock
- Thermodynamic Computing Tools: GPEC, Sanders, PE 2000
- Microsoft Office
- Mathematical Tools and Numerical Computing Environments: Matlab, OriginLab, Mathcad, FlexPDE

LAB EXPERIENCE

- High pressure, high temperature systems and reaction units;
 - Supercritical Extraction
 - Supercritical Reactive Deposition, Chemical Vapor Deposition
 - Surface Modification with supercritical deposition
 - Thermodynamic phase behavior determination
- Sol-gel chemistry and composite processing
- Clean room and micro-fabrication experience
- Characterization tools: GC-MS, HPLC, FTIR, BET, TPD, TPR, XRD, TGA, DSC, SEM, Contact angle measurements, Nanodrop, UV-VIS-NIR, Thermal conductivity measurement with HotDisk and guarded hot plate, Ultrasound device.

TEACHING EXPERIENCE

Chemical & Biological Engineering Lab (Fall 2010 & 2011 & 2012)
Chemical & Biological Engineering Design (Spring 2010 & 2011 & 2012 & 2013)
Polymer Engineering (Fall 2009)
Thermodynamics (Spring 2009)
Thermodynamics (Graduate course) (Fall 2008)
Thermodynamics (Spring 2008)
General Chemistry (Fall 2007)

LINGUISTICS

Turkish (Fluent, native)
English (Fluent in writing and speaking, TOEFL: 96 in 2007)

PERSONAL INFO

Birth Date 22.08.1984
Gender Female
Hobbies Reading, movies, music, linguistics, puzzles, travel
Websites https://www.researchgate.net/profile/Deniz_Sanli

REFERENCE

Prof. Dr. Can ERKEY
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