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Enzymatic reduction of oxygen by small laccase. A rapid freeze-quench EPR study

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List of publications

- 1) Faezeh Nami, Peter Gast, Edgar J.J. Groenen, Rapid Freeze-Quench EPR Spectroscopy: Improved Collection of Frozen Particles, *Applied Magnetic Resonance*, 47 (2016) 643–653.
- 2) Farzad Deyhimi, Faezeh Nami, Peroxidase-catalyzed electrochemical assay of hydrogen peroxide: A ping-pong mechanism, *International Journal of Chemical Kinetics*, 44 (2012) 699–704.
- 3) Farzad Deyhimi, Faezeh Nami, Modeling and optimization of a peroxidase reaction with 4-fluoro phenol by response surface methodology based on potentiometric method, *Journal of Molecular Catalysis B: Enzymatic* 68 (2011) 162–167.
- 4) Faezeh Nami, Farzad Deyhimi, Prediction of activity coefficients at infinite dilution for organic solutes in ionic liquids by artificial neural network, *The Journal of Chemical Thermodynamics* 43 (2011) 22–27.

Curriculum Vitae

Faezeh Nami

Born on 22/11/1983 in Bastak, Iran.

Research Experience

03/2012 – Now PhD candidate in EPR/biophysics, Leiden University,
Leiden, The Netherlands

Project: Detection and characterization of intermediates involved in the enzymatic reduction of oxygen by small laccase.

Supervisors: Prof. dr. Edgar J.J. Groenen
Prof. dr. Gerard W. Canters

09/2007 – 02/2012 PhD candidate in physical chemistry, Shahid Beheshti
University, Tehran, Iran

Project: Modeling and prediction of kinetic parameters of biochemical reactions and thermodynamic parameters of ionic liquids using chemometric methods

Supervisor: Prof. dr. Farzad Deyhimi

Education

09/2005 – 09/2007 MSc in (bio)physical chemistry, Shahid Beheshti
University, Tehran, Iran

09/2001 – 09/2005 BSc in chemistry, Kharazmi University, Tehran, Iran

Teaching Experience

Teaching assistant for the bachelor courses of
Quantum mechanics for physics students (Leiden University)
Physics B for Life Science and Technology students (Leiden University)
Physical chemistry for chemistry students (Shahid Beheshti University)
Practical physical chemistry for chemistry students (Shahid Beheshti
University)

Attended Conferences

Dutch chemistry conference, CHAINS, Veldhoven, 6-8 December 2016

23rd meeting of the Benelux EPR group, Ghent, Belgium, 22 May, 2015
Dutch chemistry conference, CHAINS, Veldhoven, 17-18 November 2014
HRSMC symposium, Amsterdam, 21 November 2014
IXth EF-EPR conference, Marseille, France, 9-11 September 2014
Enzyme mechanism by biological systems, Manchester, UK, 1-4 June 2014
Chemistry in relation to physics and materials sciences, Veldhoven, 10-11
February 2014
HRSMC symposium, Leiden, 21 November 2013
Dutch biophysics meeting, Veldhoven, 1-2 October 2013
21st meeting of the Benelux EPR group, Leuven, Belgium, 23 May, 2013
Physics@FOM, Veldhoven, 22-23 January 2013
Dutch biophysics meeting, Veldhoven, 1-2 October 2012
Casimir spring school, Arnemuiden, 14-16 June 2012

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I am thankful to Dr. Peter Gast who was always around with great ideas in case of any problems with the instruments.

I would like to express my sincere thanks to Lionel Ndamba who introduced me to protein expression and purification. I admire his patience and enormous help with preparing the protein for my experiments.

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