



Victoria Fidelsky

Curriculum Vitae

My name is Victoria Fidelsky and I am a Ph.D student in the Grand Technion Energy Program. I strive to excel in my research in order to benefit the scientific community and the energy industry. I hope to continue in the area of energy and computational chemistry in the future.

QUALIFICATIONS

2017 – Today

Technion – Israel Institute of Technology

Ph.D in the Grand Technion Energy Program

2015 – 2017

Technion – Israel Institute of Technology

M.Sc in Energy Engineering
(with thesis)- research on "Theoretical characterization for nickel oxyhydroxide – one of the best water oxidation catalysts for energy applications"

2010 – 2015

Technion – Israel Institute of Technology

B.Sc in Materials Science and Engineering (Cum Laude)
B.Sc in Chemistry (Cum Laude)

2009 – 2010

"HOT" Telecommunications Company

Technical support

2006 – 2009

Israeli Defense Force (Air Force)

Sergeant in central air traffic operation room

ACADEMIC AWARDS & DISTINCTIONS

2015

The Jacob Isler foundation scholarship
Cum Laude B.Sc in Materials Science and Engineering
Cum Laude B.Sc in Chemistry
President's list excellence award

2011 - 2014

Dean's list excellence during six semesters in a row

RESEARCH ACTIVITY & PRESENTATION

2017

2nd Israeli Conference on Computational Modeling of Molecules and Solids- poster presentation

GTEP International Advisory Board Meeting- poster presentation

2015

Recent Advances in Computational Modeling for Energy Applications- poster presentation

Study of Aluminum Behavior in Oligofluorohydrogenat Ionic Liquids-B.Sc graduation project

ACADEMIC PUBLICATIONS

1. Vicky Fidelsky and Maytal Caspary Toroker, "Engineering Band Edge Positions of Nickel Oxyhydroxide through Facet Selection", J. Phys. Chem. C, 2016, 120, 8104–8108.
2. Vicky Fidelsky, Valeria Butera, Jeremie Zaffran and Maytal Caspary Toroker, "Three fundamental questions on one of our best water oxidation catalysts: a critical perspective", Theor Chem Acc, 2016, 135:162.
3. Vicky Fidelsky and Maytal Caspary Toroker, "Enhanced Water Oxidation Catalysis of Nickel Oxyhydroxide through the Addition of Vacancies", J. Phys. Chem. C, 2016, 120 (44), pp 25405–25410.
4. Vicky Fidelsky and Maytal Caspary Toroker, "The secret behind the success of doping NiOOH with iron", Phys. Chem. Chem. Phys. 2017, 19, 7491-7497. [Cover article.](#)
5. Vicky Fidelsky, David Furman, Yuri Khodorkovsky, Yuval Elbaz, Yehuda Zeiri, and Maytal Caspary Toroker, "Electronic Structure of β -NiOOH with Hydrogen Vacancies and Implications for Energy Conversion Applications", MRS Communications, Volume 7, Issue 2, 2017, pp. 206-213.
6. Danny Gelman, Boris Shvartsev, Itamar Wallwater, Shahaf Kozokaro, Vicky Fidelsky, Adi Sagy, Alon Oz, Sioma Baltianski, Yoed Tsur and Yair Ein-Eli, "An Aluminum-Ionic Liquid Interface Sustaining a Durable Al-air Battery", Journal of Power Sources, accepted for publication in 2017.

PERSONAL DETAILS

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Institute of
Technology

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svik22@campus.technion.ac.il

Year of birth- 22.4.88

Country of birth-Russia

Immigration to Israel- 1994

Academic Expertise

Oriented with Linux
operation system

Oriented with VASP
program for DFT
calculations and other
computational chemistry
applications

Oriented with Materials
Studio program for atomic
representations

Oriented with Vesta
program for 3D
visualization program

Languages

English-academic level

Hebrew-native

Russian-well adapted

