Yehonaday Bekenstein

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Education

2004-2007 BA (at HU) Exact Sciences Program (Physics and Chemistry) 2008-2009 MA (at HU) Physics;

Thesis Topic: Electrical measurements through single DNA molecules.

Mentor Prof. Danny Porath

2010-Present | PhD (at HU) Physics;

Thesis Topic: Electrical properties of cage-like colloidal semiconductor/metallic hybrid quantum dots.

Mentors Prof. Uri Banin and Prof. Oded Millo.

Latest academic awards:

Schuller prize 2013 – for Experimental physics

NanoIsrael 2012 International conferences – best poster award

HU faculty of science- 2012 best poster award

HU nano-center conference 2011 – best poster award

HU representation experiences

Selected talk at Prof Anthony Legget's class Global young scientist summit 2013 Singapore

Israel presidential conference 2012 & 2011

HU Scientific address to the public - Israel train 2010

experience

2009 – present | Head of the physics programs in the youth educational division HU.

Writing and developing educational programs suitable for the youth.

2008 – present | Teaching assistant; Physics department HU. Instructor of bachelors third year physics lab.

12/2009-1/2010 | Research collaboration at Columbia university with Prof Shalom Wind's group.

Learning advanced nanoscale lithographic techniques.

7/2007-10/2007 | Summer project at Soreq Applied Research Accelerator Facility(SARAF)-Soreq nuclear research center.

Conducting simulations of beam profiles for accelerated particles.

2004-2005 | Israel Aerospace Industries(IAI). Systems Missiles and Space Group.

Member of research and development team.

1998-2004 | Naval officer in the Israeli navy.

Publications

- Periodic negative differential conductance in a single metallic nanocage Y Bekenstein, K Vinokurov, TJ Levy, E Rabani, U Banin, O Millo Physical Review B 86 (8), 085431
- 2. Electronic properties of hybrid Cu2S/Ru semiconductor/metallic-cage nanoparticles Y Bekenstein, K Vinokurov, U Banin, O Millo Nanotechnology 23 (50), 505710
- 3. Controlling Localized Surface Plasmon Resonances in GeTe Nanoparticles Using an Amorphous-to-Crystalline Phase Transition
 Mark J. Polking, Prashant K. Jain, Yehonadav Bekenstein, Uri Banin, Oded Millo, Ramamoorthy Ramesh, and A. Paul Alivisatos
 Physical Review Letters 111 (3), 037401
- 4. Colloidal Semiconductor Nanorod Couples Via Self-Limited Assembly Guohua Jia, Amit Sitt, Gal B. Hitin, Ido Hadar, Yehonadav Bekenstein, Yorai Amit, Inna Popov, Uri Banin- submitted
- 5. Exceptional hazard in the inflation of heart shaped balloons Brosh Koby MD, Bekenstein Yehonadav, Tamar Goldman, Israel Strassman MD, Acta Ophthalmologica- 2013