CURRICULUM VITAE

Prof. Doron Naveh

July 29, 2017

Personal Details

First Name: Doron

Surname: Naveh

Address: 20 Haoranim St. Petach-Tikva, Israel.

Phone: +972-52-2368266

Email: doron.naveh@gmail.com

Homepage: http://2D-Electronics.com

Education

PhD	2003-2008	Weizmann Institute of Science, Rehovoth, Israel.
	Advisor	Prof. Leeor Kronik
	Subject	Understanding and Predicting Novel Magnetic Phenomena in Materials: A First-Principles Study.
MSc	2001-2003	Department of Physics, Ben-Gurion University, Beer Sheva, Israel.
	Advisor	Prof. Salman Rosenwaks and Prof. Ilana Bar.
	Subject	Pulsed Laser Deposition of Marine-Origine Materials
BSc	1996-2001	Deparment of Physics and Department of Materials Engineering, Ben-Gurion University, Beer-Sheva, Israel.

Academic Appointments

2019 - present **Associate Professor**, Faculty of Engineering, Bar-Ilan University, Ramat- Gan, Israel.

2012 - 2019 **Senior Lecturer**, Faculty of Engineering, Bar-Ilan University, Ramat- Gan, Israel.

2009 - 2012 **Postdoctoral Researcher**, Department of Electrical and Computer Engineering, Carnegie-Mellon University, Pittsburgh, Pennsylvania, USA.

2008 - 2009 **Postdoctoral Fellow,** Department of Aerospace and Mechanical Engineering, Princeton University, Princeton, New-Jersey, USA.

2001 - 2003 **Teaching Assistant**, Department of Physics, Ben-Gurion University, Beer-Sheva, Israel

Teaching Experience

Lecturer:

From Devices to Circuits & Systems	graduate;	Bar-Ilan University; 2018- present
Advanced Nanoelectronic Device	graduate;	Bar-Ilan University; 2013- present
Graphene and 2D Semiconductor Technology	graduate;	Bar-Ilan University; 2014- present
Nanoelectronic Device	undergraduate;	Bar-Ilan University; 2013-present
Introduction to Semiconductor Device	undergraduate;	Bar-Ilan University; 2016- 2017
Introduction to Semiconductor Device Lab	undergraduate;	Bar-Ilan University; 2013-present
Advanced Laboratory in Nanoelectronics	undergraduate;	Bar-Ilan University; 2013-2015

Research Grants

1. ”Soft-Doping of 2D Layered Materials”, Israel Science Foundation, 2015-2019, Amount: 1,037,792 NIS.
2. ”Laboratory for Nanoelectronic Device”, Israel Science Foundation, 2015-2019, Amount 1,100,000 NIS.
3. "Graphene Priniting Technologies", Kamin, new competitive program of Chief Scientist of the Israeli Ministry of Economy, 2013-2015, Amount: 800,000 NIS.
4. "Graphene-Based Ultrafast Pulsed Fiber Lasers", MEIMAD program of Israeli Ministry of Economy and Israel Ministry of Defense, 2014-2017, together with Dr. Fridman (BIU), Amount: 1,500,000 NIS.
5. Graphene-Based IR Sensors, Israel Ministry of Defense, 2013-2020, Amount 1,400,000 NIS.
6. Institutional Equipment Funding, together with Lior Klein and Doron Gerber, Israel Science Foundation, 2016, Amount: 1,100,000 NIS
7. Automation and Computer Interfaced Characterization of Electronic Devices for Engineering Graduate Student Teaching Laboratory, Intel Corp. 2013-2015, Amount: 75,000 NIS
8. “Nanowire arrays for high power laser coatings”, ALTIA MAGNET, 2016-2021, Amount: (approximate) 1,300,000 NIS
9. “Hybrid Graphene-InSb Photodetectors”, Ministry of Economy and Trade, 2017-2018, Amount: 500,000 NIS

10. "Graphene Membranes" Sponsored Research WAVES Inc. 2016-2019, Amount: 1,400,000 NIS
11. "LEAF 2D" Horizon 2020 FET OPEN, 2018-2021, 3,000,000 NIS
12. "Integrating 2D Semiconductors with Functional Polymers for Nanoscale Optoelectronics", NSF–BSF, 2018-2021, 735,000 NIS
13. "Graphene Magnet", 2020, 3,900,000 NIS

Total: 18,048,000 NIS

Conference Organization, Management and Special Sessions:

1. Organizer, Israel-Italy Binational Workshop on 2D Materials, Bar-Ilan University, Nov. 2019
2. Co-Organizer, Winter School on 2D Materials, Weizmann Institute of Science, Israel, 2019
3. Co-Organizer, GeNano Meeting on 2D Materials, Berlin, 2019
4. Co-Organizer, Israel-UK Synergy Workshop on 2D Materials & Devices, Exeter University, UK, 2018
5. General chair, Flatlands: Beyond Graphene, Bar-Ilan University, Israel, 2015
6. Workshop on Energy Efficient Electronics, Technical Committee, Bar-Ilan, Israel, 2012

Reviewer for Journals:

Member of the editorial board: NPJ 2D Materials and Applications, Nature Publishing; Nanotechnology; Journal of Physics Condensed Matter; Physical Review Letters; Physical Review B; Nature Communications; Scientific Reports, NPJ 2D Materials and Applications; American Chemical Society; Advanced Materials; Royal Chemical Society.

Membership in Professional Societies

Member of the American Physical Society, Israel Vacuum Society.

Invited Talks

1. Flatlands Beyond Graphene 2019, Toluse France, "Nobel Metal Intercalation For Sensitive Photodetection in MoS_2".
2. Department of Electrical Enginering Seminar, Yale University 2019, "Graphene Varacor of Fast optoelectronics".
3. FLATLANDS Beyond Graphene 2018, Leipzig September 2018, "Molecular Passivation of WSe_2".

4. “Protective Molecular Passivation of Black Phosphorous” Micro-Nano Engineering, INL Portugal, Sept. 2017.

5. “2D Materials Optoelectronics: From Graphene to Black Phosphorus”, XIX International Workshop on The Physics of Semiconductor Devices, New Delhi, Dec. 2017.

6. “2D Materials Optoelectronics: From Graphene to Black Phosphorus”, IIT Bombay, Dec. 2017.

7. “2D Materials Optoelectronics: From Graphene to Black Phosphorus”, Indian Institue of Science Education and Research, Indore, Dec. 2017.

8. “Protective Molecular Passivation of Black Phosphorous” FlATLANDS, EPFL, Switzerland, Sept. 2017.

9. “Vertically Aligned MoS_2”, University of California Davis – Department of Chemistry, Aug. 2017.

10. “Protective Molecular Passivation of Black Phosphorous” International symposium on Physics and Device Applications of 2D Materials, Fudan University, Shanghai, Jul. 2016.

11. "2D Layered Materials for Nano-Electronics", Nano-Israel, Tel-Aviv, February 2016.

12. "2D Materials for Electronics: From Graphene to Semiconductor Heterostructures", Israel Vacuum Society, Weizmann Institute of Science, September 2015

13. "Optical Alignment of Momentum and Spin Orientation in Topological Insulators", International symposium on Physics and Device Applications of 2D Materials, Nanjing, China, July 2015

Visiting and Post-Doctoral Researchers

1. Dr. Avner Haran 2013-2014
2. Dr. Vlada Artel 2013-2017
3. Dr. Anna Peled 2014-2015
4. Dr. Eldad Peretz 2015-2016
5. Dr. Ofer Sinai 2015-2017
6. Dr. Arnab Gohsh 2018-2019
7. Dr. Koushik Majihi 2018-2019

Graduate Students

Current

Ph.D

1. Moshe Kirshner, Hybrid Graphene-Topological Insulators IR Photodetectors

2. Chen Stern, Hybrid Silicon Layered-Materials Electronic Devices
3. Rafael Snitkoff, Photodetectors for Hyperspectral Sensing
4. Avraham Twitto, Novel Mid-Infrared Photodetectors

M.Sc

5. Adi Levi, Hybrid Graphene-Black Phosphorus Mid Infrared Photodetectors, 2016-2019
6. Noam Gotlib, Chiral Molecules Adsorbed on MoS_2, 2016-2019
7. Yehiel Nagar, Soft-Doping of 2D Materials 2018-2020

Graduated

M.Sc

1. Omry Cohen, MoS2 Photodiode Devices (2015)
2. Moshe Kirshner, Hybrid Graphene Photodetectors (2015)
3. Ohad Meshulam, Graphene-Neuron Cell Interfaces (2019)

PhD

1. Hadas Alon, Soft-Doping of 2D Materials (2019)