

## Publications List – Yakir Knafo

### Peer reviewed journals

- A.1** Y. Ifergan, S. Dadon, A. Ocherasvili, I. Israelashvili, Y. Yehuda-Zada, D. Smadja, L. Carmel, **Y. Knafo**, A. Osovizky, D. Ginzburg, Y. Kadmon, Y. Cohen, T. Mazor, "Development of a Thin, Double-Sided Alpha/Beta Detector for Surface-Contamination Measurements", IEEE Transactions on nuclear science, Vol. 63, Issue 2, Pages.634-638, March. 2016
- A.2** D. Ginzburg, **Y. Knafo**, A. Manor, R. Seif, M. Ghelman, M. Ellenbogen, V. Pushkarsky, I. Ifergan, N. Samyonov, U. Wengrowicz, T. Mazor, Y. Kadmon, Y. Cohen, A. Osovizky, "Personal Radiation Detector at High Technology Readiness Level for DARPA's SN-13-47 and SIGMA Program requirements" NIM Vol 784; June 2015
- A.3** Y. Ifergan, S. Dadon, I. Israelshvili, A. Osovizky, E. Gonen, D. Smadja, **Y. Knafo**, D. Ginzburg, Y. Kadmon Y. Cohen and T. Mazor, "Utilization of Wave-Length Shifter (WLS) fibers Coupled to ZnS(Ag) and Plastic Scintillation for Developed Alpha and Beta Particles" NIM Vol 784; pages 93-96 June 2015

### Conference proceedings

#### אחרי קבלת דרגה

- B.1** **Y. Knafo**, A. Manor, A. Osovizky, R. Rimer "Active control design for energy harvesting and returning energy to an exoskeleton during gait" SIEEE Israel, Nov. (2021)
- B.2** E. Vax, L. Yacobi, R. Rahin, S. Tarem, E. Behar, Y. Ifergan, Y. Yehuda-Zada, E. Broide, Y. Solomon, D. Smadja, S. Dadon, **Y. Knafo**, Y. Kadmon and A. Osovizky, "Directional Gamma Detector", IPS 2021, Feb 2021
- B.3** A. Osovizky, Y. Yehuda-Zada, R. Harran, I. Cohen-Zada, M. Ghelman, R. Sayef, T. Edvevskyi, **Y. Knafo**, A. Manor, D. Smadja, D. Ginzburg, and Y. Kadmon, "A Modular Detection Unit Building Block Configuration for Contamination Detector" IEEE NSS Manchester, Nov. (2019)
- B.4** A. Osovizky, Y. Yehuda-Zada, D. Ginzburg, Y. Ifergan, R. Sayef, M. Ghelman, T. Edvevskyi, **Y. Knafo**, R. Harran, and Y. Kadmon, "Optimization of a Multi-Layered Scintillator for Neutron Detection and Spectroscopy Applications", IEEE NSS Manchester, Nov. (2019)
- B.5** S. Dadon, E. Vax, D. Smadja, Y. Yehuda-zada, Y. Levin, I. Choen-zada, **Y. Knafo**, A. Osovizky, Y. Kadmon, Y. Ifergan, "*Estimation of the Radiation Source Direction based Segmented Cubic Detector Configuration*", ANIMMA VI, Portoroz Slovenia, June (2019)
- B.6** **Y. Knafo**, J. Nir, A. Manor, D. Ginzburg, Y. Kadmon and A. Osovizky.  
"Excitation Voltage Switching Circuit for G.M Detectors" The 28th Conference of the Nuclear Societies in Israel, 2018

#### לפני קבלת דרגה

- B.7** **Y. Knafo**, R. Seif, D. Smidov, M. Raznov, V. Pushkarsky, D. Ginzburg, A. Manor, T. Mazor and Y. Kadmon. "TELEPOLE II – New Development of Extendible Survey Meter Base on Advanced Technologies" The 28th Conference of the Nuclear Societies in Israel, 2016

- B.8** Y. Ifergan, Y. Yehuda zada, E. Vax, B. Sarussi, D. Smadja, S. Dadon, Y. Knafo, T. Mazor, Y. Kadmon and A. Osovizky. "Improving radiation detection level and operational data of pre and post event monitoring systems" International Conference on NUCLEAR SECURITY: Commitments and Actions. Vienna, Austria, December 2016, ISBN:978-92-0-107017-3
- B.9** Y. Ifergan, S. Dadon, A. Ocherashvili, I. Israelshvili, M. Ghelman, Y. Yehoda-zada, A. Osovizky, D. Smadja, L. Carmel, A. Lehrer, Y. Knafo, D. Ginzburg, R. Atias, Y. Kadmon, T. Mazor and Y. Cohen "Development of a thin double side Alpha Beta detector for surface contamination measurement" SCINT Conference, Berkeley 2015.
- B.10** Y. Ifergan, S. Dadon, E. Israelashvili, A. Osovizky, E. Gonen, D. Smadja, Y. Knafo, D. Ginzburg, Y. Kadmon, Y. Cohen and T. Mazor, "Utilization of Wavelength Shifter Fiber Coupled to ZnS(Ag) and Plastic scintillation for Simultaneous Detection of Alpha/Beta Particles", SORMA XV Ann Arbor May (2014)
- B.11** D. Ginzburg, Y. Knafo, A. Manor, R. Seif, M. Ghelman, M. Ellenbogen, V. Pushkarsky, I. Ifergan, N. Samyonov, U. Wengrowicz, T. Mazor, Y. Kadmon, Y. Cohen and A. Osovizky "The Compliance of a new PRD with the ITRAP 10+ testing program" SORMA XV Conference Ann Arbor 2014
- B.12** Y. Knafo, A. Manor, D. Ginzburg, M. Ellenbogen, A. Osovizky, U. Wengrowicz, M. Ghelman, R. Seif, T. Mazor, Y. Kadmon, Y. Cohen. "Flattening the Energy Response of a Scintillator Base Gamma Dose Rate Meter Coupled to SiPM" The 27th Conference of the Nuclear Societies in Israel, 2014. Available from INIS 45114807
- B.13** A. Osovizky, D. Ginzburg, V. Pushkarsky, D. Smidov, E. Vax, Y. Knafo, N. Semyonov, L. Kaplan, Y. Cohen, Y. Kadmon and T. Mazor. "Design of stack monitoring system for ventilation duct at positron emitters production center" The 27th Conference of the Nuclear Societies in Israel, 2014, Available from INIS 45114801
- B.14** A. Osovizky, D. Ginzburg, A. Manor, R. Seif, M. Ghelman, M. Ellenbogen, Y. Cohen, V. Pushkarsky, Y. Knafo, I. Ifergan, D. Sadan, E. Gonen, U. Wengrowicz, R. Atias, T. Mazor, Y. Cohen and Y. Kadmon. "The Compliance of a new PRD with the ITRAP 10+ testing program" The 26th Conference of the Nuclear Societies in Israel, 2012 Available from INIS 4412609

### Oral presentations

#### אחרי קבלת דרגה

- C.1** Y. Knafo, A. Manor, A. Osovizky, R. Rimer "Active control design for energy harvesting and returning energy to an exoskeleton during gait" SIEEE Israel, Nov. (2021)
- C.2** Y. Knafo, J. Nir, A. Manor, D. Ginzburg, Y. Kadmon and A. Osovizky. "Excitation Voltage Switching Circuit for G.M Detectors" The 28th Conference of the Nuclear Societies in Israel, 2018

#### לפני קבלת דרגה

- C.3** Y. Knafo, A. Manor, D. Ginzburg, M. Ellenbogen, A. Osovizky, U. Wengrowicz, M. Ghelman, R. Seif, T. Mazor, Y. Kadmon, Y. Cohen. "Flattening the Energy Response of a Scintillator Base Gamma



Dose Rate Meter Coupled to SiPM" The 27th Conference of the Nuclear Societies in Israel, 2014.  
Available from INIS 45114807

**Posters**

**אחרי קבלת דרגה**

**D.1** **Y. Knafo**, B. Sarussi, A. Manor, Y. Kadmon and A. Osovizky.

"Advanced Electronics Platform Based on MCU for Nuclear Applications" The 28th Conference of the Nuclear Societies in Israel, 2018

**D.2** D.Smidov, **Y. Knafo**, V. Ladyzhensky, A. Manor, A.Osovizky and D. Ginzburg.

"Temperature dependence of Gamma – Neutron Discrimination Using Silicon Photomultiplier and Lil (Eu) Scintillation Crystal" The 28th Conference of the Nuclear Societies in Israel, 2018