# Dr. Alon Osovizky - Curriculum Vitae

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## *Personal Details*

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| Date and Place of birth: | May 28th, 1965, Beer Sheva, Israel |
| Home Address: | 1 Lilit St. Lehavim 85338 Israel |
| Tel: | Cellular: +972-50-6244017 |
| E-mail | alon@rotemi.co.il |
| Marital Status: | Married, three children |
| Citizenship: | Israeli |
| Military rank: | Lieutenant Colonel |

## *Employment History*

### Current Position

- Since 2015: Manager, Electronics R&D department, Electronic and Control Laboratories Nuclear Research Center Negev (NRCN)
- Since 2015: CTO, Health Physics Instrumentation, Rotem Industries Ltd

### PreviousPositions

- 2013–2015: Research fellow at NIST Center for Neutron Research (NCNR). Developing a scintillation based neutron detector as a novel alternative to $^{3}H$ counter tube.
- 2006-2013: R&D Manager, Health Physics Instrumentation, Rotem Industries Ltd and head of the radiation detection field at NRCN
- 2004-2006: Fellow researcher at Center for Addiction and Mental Health (CAMH), Toronto, Canada. The research was conducted as part of my Ph.D. studies and focused on:
  - Measurement of low activity levels of PET tracers
  - Monitoring of the cyclotron target during bombardment and isotope production
- 2000-2004: Senior R&D engineer of detection systems, Project Manager and Team Leader
- 1995-2000: Junior electronic engineer - development of health physics instrumentation

## ***Professional Activity and Expertise***

- ❖ Managing the R&D of radiation detection systems for Health Physics Instrumentation, Medical Imaging, Industrial Applications and Homeland Security (HLS) special requirements.
- ❖ Expert consultant for Alpha, Beta, Gamma and Neutron radiation detection.
- ❖ Professional guidance of research and development teams
- ❖ Active participation in the International Electrotechnical Commission (IEC) 45B workgroup, formulating standards for HLS instrumentation and area radiation monitoring systems.
- ❖ The Israeli delegate for IAEA professional working committees
- ❖ Leading of large scale technological projects including the literature surveys, feasibility studies, development phases and the performance of the validation stage.
- ❖ Academic guidance for Postgraduate studies
- ❖ Germination of novel technological collaborations between industry and academia
- ❖ Preparation and submission of international research proposals
- ❖ R&D of radiation sensors for Taylor-made solutions
- ❖ Evaluation of the detection alternatives and configuring the system design
- ❖ Initiation of technological and scientific projects
- ❖ Integration of advanced detection technologies into customized solutions
- ❖ Project management including the definition of the project's specifications, working plan, timetable and resources
- ❖ Carrying out experimental studies, modeling, and final Q.A testing
- ❖ Supervision of electronic circuit design and instrument construction
- ❖ Coupling optimization between advanced scintillation crystals and light sensors
- ❖ Growth of novel detection methods
- ❖ Electronic development of pre-amplifiers for solid-state based sensors
- ❖ Definition and development of software user interface and requisite algorithms
- ❖ Monitoring the operation of newly-developed systems for performance upgrade and amplification
- ❖ Technical documentation, scientific publications and patents application
- ❖ Promotion of marketability for mature products and characterization of the market requirements for the development of new detection technologies and products

## ***Education***

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|---|---|---|
| 2003 - 2009 | **Ph.D** | Department of Nuclear Engineering, Ben-Gurion University of the Negev, Beer Sheva, Israel.<br><br>***Topic: "Optimizing Radiation Detector Systems for Data Acquisition and Quality Control in Positron Emission Tomography"***<br><br>Supervisors: Prof. Brenda Laster (BGU) & Prof. Sylvain Houle, University of Toronto (UOT), Toronto, Canada.<br><br>A Joint collaboration with the PET center at the Center for Addiction and Mental Health (CAMH), UOT and BGU |
| 1995-1998 | **M.B.A** | School of Industrial Engineering and Management, Ben-Gurion University of the Negev, Beer Sheva, Israel.<br><br>Master of Business Administration, specializing in Project Management. |
| 1992 - 1994 | **M.Sc.** | Department of Nuclear Engineering, Ben-Gurion University of the Negev (BGU), Beer Sheva, Israel.<br><br>***Topic:*** "***Kinetics of Hydrogen Absorption in Massive Samples of the Intermetallice Compound, LaNi5"***, Thesis grade 95<br><br>Supervisor Prof. Yizhak Jaco<br><br>Industry Scholarship Studies |
| 1988 - 1992 | **B.Sc**. | Department of Electronics and Computers Engineering, Ben-Gurion University of the Negev, Beer Sheva, Israel.<br><br>***Topic:*** "***Three Stage Magnetic Pulse Compression for Laser Production"***, Project grade 95<br><br>Supervisor Prof. Raul Rabinovici<br><br>Collaboration with the industry |

## ***Topics of Scientific Activity***

***Herein is a list of my research fields and activities followed by main publications:***

### ***Detection instrumentation***

- SENTIRAD—An innovative personal radiation detector based on a scintillation detector and a silicon photomultiplier, doi:10.1016/j.nima.2011.01.027
- New Radiation Sensor Embedded in a Metal Detection Unit, doi: 10.1109/TNS.2009.2039580
- Telepole – GM meter on an Extendible Pole, Available from INIS 29045664
- Pin Diode Detector for Radiation Field Monitoring in a Current Mode, Available from INIS 31049532

### ***Electronic design and Simulation***

- Sub-milliwatt spectroscopic personal radiation device based on a silicon photomultiplier, doi:10.1016/j.nima.2010.08.062
- Optimization of $^{6}$LiF:ZnS(Ag) Scintillator Light Yield Using Geant4
- Computational Techniques for Optimizing Performance of a LiF:ZnS(Ag) Neutron Detector using Recorded Waveforms

### ***Isotope Identification***

- Synthetic software γ-ray spectra generation of SNM masking scenarios for homeland security application, doi:10.1117/12.862462
- A Novel Personal Radiation Detection and Identification Device, doi: 10.1109/NSSMIC.2009.5401852
- Synthetic Gamma-ray Spectra for HLS Radio-Nuclides Analysis, doi: 10.1109/NSSMIC.2009.5401630

### ***Nuclear Medicine***

- Radiation levels in cyclotron-radiochemistry facility measured by a novel comprehensive computerized monitoring system, doi:10.1016/S0168-9002(98)01407-7
- A new approach for an HPLC metabolite radiation detection system which increases sensitivity and optimizes data acquisition, 1537
- Cyclotron Target Monitoring During Bombardment for PET Isotope Production, Available from INIS 40014150
- "Measurement of PET Tracers Low Activity Levels During Plasma Samples Analysis", Available from INIS 40014072
- Methods for Determining the Activity Concentration Calibration Factor for Ventilation Duct in Cyclotron Sites, Available from INIS 40014092
- New detection configuration for low activity levels of PET tracers during the analysis of plasma samples, https://www.sciencedirect.com/science/article/pii/S0969804318308273

***SiPM - light sensor technology***

- Optimizing the design of a silicon photomultiplier-based radiation detector, doi:10.1016/j.nima.2011.01.022
- Silicon photomultiplier and radiation detection: follow-up study and the path forward, doi:10.1117/12.862301
- Selection of silicon photomultipliers for a $^{6}$LiF:ZnS(Ag) scintillator based neutron detector, https://iopscience.iop.org/article/10.1088/2399-6528/aab381
- Development of a Thin, Double-Sided Alpha/Beta Detector for Surface-Contamination Measurements, https://ieeexplore.ieee.org/document/7425269

***New algorithm***

- Improving the Detecting Performances of Radiation Portal Monitors Using Matched Filter Algorithm And Generalized Likelihood Ratio Test, doi: 10.1109/NSSMIC.2009.5401563
- Compensation of Scintillation Sensor Gain Variation During Temperature Transient Condition Using Signal Processing Techniques, doi: 10.1109/NSSMIC.2009.5402169
- Improving Activity Estimation in Passive Gamma Scanning for Radioactive Waste Drums
- Estimation of the Radiation Source Direction based Segmented Cubic Detector Configuration

***Homeland Security***

- Decreasing the Minimum Detectable Level of an Advanced Spectroscopic Portal by Using Multiple Detector Approach, doi: 10.1109/NSSMIC.2008.4775219
- Development of Gamma and Neutron Personal Radiation Detector, Available from INIS 38093066
- Radioactive Material Detection System (RMDS) Based on Advanced Spectroscopic Portal Technology, Available from INIS 40014152
- An Integrated Approach For Multi Purpose Fast Deployment Environmental Radiation Monitoring System, doi: 10.1109/NSSMIC.2009.5401561
- Improving the radiation detection level and operational data of pre and post event monitoring systems https://www.iaea.org/publications/12238/international-conference-on-nuclear-security-commitments-and-actions

***Neutron Detection***

- An energy analyzing detector for cold neutrons, doi: 10.1109/NSSMIC.2008.4775219
- Design of a New Cold Neutron Detector, doi: 10.1109/NSSMIC.2008.4775219
- Decreasing the Minimum Detectable Level of an Advanced Spectroscopic Portal by Using Multiple Detector Approach, doi: 10.1109/NSSMIC.2008.4775219
- $^{6}$LiF:ZnS(Ag) Mixture Optimization for a Miniature Highly Efficient Cold Neutron Detector, https://www.nist.gov/publications/6lifznsag-mixture-optimization-miniature-highly-efficient-cold-neutron-detector

## • ***Main Developments***

The following table represents worldwide commercial implementations based on my R&D.

| *Device* | *Main perpose* | *Picture* | *link* |
|---|---|---|---|
| **PDS GO** | A lightweight, small, sensitive, personal gamma radiation detector, designed to meet the ANSI N42.32 & 42.33 radiation detection requirements |  | file:///C:/Users/WIN10/Downloads/PDS-GO_Rotem_09052017.pdf |
| **DRM1D** | A highly stable and accurate dose rate meter with sophisticated software offering special features and optimal performance for telemetry data. |  | file:///C:/Users/WIN10/Downloads/DRM-1D%20(1).pdf |
| **RAM ION** | A portable ion chamber survey meter designed for highly stable and accurate measurement of dose rates and integrated dose of gamma, x-ray and beta radiation. |  | file:///C:/Users/WIN10/Downloads/RAM-ION-18112018.pdf |
| **PDS-100GN/ID** | A Spectrometric Personal Radiation Detector for the detection of nuclear material, with high sensitivity, fast response and embedded spectra acquisition |  | file:///C:/Users/WIN10/Downloads/PDS-100GN-ID.pdf |
| **AMP-100** | High-range waterproof area monitoring instrument designed specifically to be used in high dose rate fields |  | file:///C:/Users/WIN10/Downloads/AMP-100.pdf |
| **TELEPOLE** | A wide range telescopic survey meter designed to obtain readings in a wide range of fields |  | https://www.rotem-radiation.co.il/product/telepole-meter/ |
| **Medi-Smarts** | A comprehensive radiation monitoring system for cyclotron facilities and accelerators. The most respected and used monitoring system available today (over 260 installed systems worldwide) |  | https://www.rotem-radiation.co.il/productsmed/ |
| **RMDS** | Advance Spectroscopic Radiation Detection Portal used for complete vehicle/ pedestrian detection of unknown hidden radioactive moving sources |  | https://www.rotem-radiation.co.il/wp-content/uploads/RMDS.pdf |
| **RAD-ION RI-02** | Smart survey meter for accurate rate & dose measurements and programmable modes for alerting the user to posting and transportation survey requirements |  | https://www.rotem-radiation.co.il/wp-content/uploads/RAD-ION_RI-02_08012017.pdf |
| **FDG Module** | For measuring the 511keV emitters activity during the production in radiochemistry laboratories |  | https://www.rotem-radiation.co.il/wp-content/uploads/2016/06/MediSmarts-FDG-module.pdf |
| **RAM 511** | Continuous air monitoring sampler for extremely low concentration levels required by laboratories producing PET isotopes |  | https://www.rotem-radiation.co.il/wp-content/uploads/2016/06/RAM511AirSamplerforPositronEmitters.pdf |

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## ***References:***

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|---|---|---|
| Dr. Radoslav Radev | International Electrotechnical Commissioon SubCommittee 45B Chairman Radev1@llnl.gov | 1-925-422-3044 |
| Prof. Ehud Behar | Technion, Head of the Department of Physics behar@physics.technion.ac.il | 972-4-829-5561 |
| Prof. Brenda Laster | BenGurionUniversity of the Negev Israel Department of Nuclear Engineering blaster@bgumail.bgu.ac.il | 972-8-646-1317 |
| Prof. Sylvain Houle | Director, CAMH PET Center and Toronto University sylvain.houle@camhpet.ca | 1-416-979-4651 |
| Dr. Paul Schotanus | Technical Manager Scionix Holland scionix@wxs.nl | 31-30-6570312 |
| Dr. Nicholas C. Maliszewskyj | Leader, Data Acquisition and Electronics Group, NIST Center for Neutron Research nicholas.maliszewskyj@nist.gov | 1-301-975-3171 |

# Publications since 2010

## *Peer Reviewed Publications*

1. E. Vax, E. Maecus, T. Mazor, Y. Kadmon, **A. Ososvizky**, "***Collimator-Less Passive Gamma Scanning for Radioactive Waste Drums***", Transactions on Nuclear Science, Vol 67 Issue 4, pages 544-551, Feb. 2020, DOI: 10.1109/TNS.2020.2975239, https://ieeexplore.ieee.org/document/9007031

2. U. Wengrowich, **A. Osovizky**, A Ocheraahvili, Y. Iferagan, Y. Kadmon, A. Raveh, I Orion, "***Neutron Detection Module Based on Li-Glass Scintillator and Array of SiPMs***" Transactions on Nuclear Science, Vol 67 Issue 4, pages 599-602, Jan. 2020, DOI**:** 10.1109/TNS.2020.2968070, https://ieeexplore.ieee.org/document/8966511

3. K. Pritchard, **A. Osovizky**, J. Ziegler, E. Binkley, P. Tsai, N. Hadad, M. Jackson, C. Hurlbut, G. M. Baltic, C. F. Majkrzak, and N. C. Maliszewskyj, **"*Computational Techniques for Optimizing Performance of a LiF:ZnS(Ag) Neutron Detector using Recorded Waveforms*", IEEE** Transactions on Nuclear Science, Vol 67 Issue 1, pages 414-421, Jan. 2020, DOI: 10.1109/TNS.2019.2953875, https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8902007

4. **A. Osovizky**, B. Laster, A.A. Wilson, P. Bloomfield, B. Sarusi, N. Vasdev, T. Bell, A. Garcia, and S. Houle, **"*New Detection Configuration for Low Activity Levels of PET Tracers During the Analysis of Plasma Samples***", applieyd radiation and isotopes Vol. 151, Pages 317-330, Sep 2019, https://www.sciencedirect.com/science/article/abs/pii/S0969804318308273

5. N. C. Maliszewskyj, **A. Osovizky**, K. Pritchard, Y. Yehuda-Zada, E. Binkley, J. Ziegler, P. Tsai, N. Hadad, G. M. Baltic, M. Jackson, C. Hurlbut, and C. F. Majkrzak, "***An energy analyzing detector for cold neutrons***", Nuclear Instrumentation and Methods in Physics Research A Vol. 892, Pages 90-96, Nov 2018, https://www.sciencedirect.com/science/article/pii/S0168900218306235?via%3Dihub

6. Y. Yehuda-Zada, K. Pritchard, J. B. Ziegler, C. Cooksey, K. Siebein, M. Jackson, C. Hurlbut, Y. Kadmon, Y. Cohen, R. M. Ibberson, C. F. Majkrzak, N. Maliszewskyj, I. Orion and **A. Osovizky**, "***Optimization of $^{6}$LiF:ZnS(Ag) Scintillator Light Yield Using Geant4*", Nuclear** Instrumentation and Methods in Physics Research A Vol. 892, Pages 59-69, June 2018**,** https://www.sciencedirect.com/science/article/pii/S0168900218302870

7. **A. Osovizky,** K. Pritchard, Y. Yehuda-Zada, J. Ziegler, E. Binkley, P. Tsai, A. Thompson, N. Hadad, M. Jackson, C. Hurlbut, G. M. Blatic, C. F. Majkrzak and N. C. Maliszewskyj, **" *Design of a New Cold Neutron Detector*** "Nuclear Instrumentation and Methods in Physics Research A Vol. 893,Pages 1-9, June 2018, https://ac.els-cdn.com/S0168900218303486/1-s2.0-S0168900218303486-main.pdf?_tid=978a6635-461a-4c2a-825e-ee42be9e4a5f&acdnat=1525517048_ddee71226364121d68782c5073200ced

8. **A. Osovizky**, K. Pritchard, J. Ziegler, E. Binkley, Y. Yehuda-Zada, P. Tsai, A. Thompson, C. Cooksey, K. Siebein, N. Hadad, M. Jackson, C. Hurlbut, R. Ibberson, G. M. Baltic, C. F. Majkrzakand N. C. Maliszewskyj, "***$^{6}$LiF:ZnS(Ag) Mixture Optimization for a Miniature Highly Efficient Cold Neutron Detector***" IEEE Transactions on nuclear science, vol. 65, No. 4, Pages 1025-1032 April 2018, https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=8304799

9. **A. Osovizky**, K. Pritchard, Y. Yehuda-Zada, J.B. Ziegler, P. Tsai, M. Ghelman, A.K. Thompson, R.M. Ibberson, G. M. Baltic, C.F. Majkrzak and N.C. Maliszewsky, "***Selection of silicon photomultipliers for a $^{6}$LiF:ZnS(Ag) scintillator based neutron detector***", Journal of Physics Communications, Vol 2, Pages 1-15, 2018, http://iopscience.iop.org/article/10.1088/2399-6528/aab381/meta

10. Y. Ifergan, S. Dadon, A. Ocherasvili, I. Israelashvili, Y. Yehuda-Zada, D. Smadja, L. Caemel,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, pp.634-638, ISSN 0018-9499, March. 2016, https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=7425269

11. D. Ginzburg, Y. Knafo, A. Manor, R. Seif, M. Ghelman, M. Ellenbogen, V. Pushkarsky, I. Ifergan, N. Semyonov, U. Wengrowicz, T. Mazor, Y. Kadmon, Y. Cohen and **A. Osovizky**, "***Personal Radiation Detector at a High Technology Readiness Level that Satisfies DARPA's SN-13-47 and SIGMA Program Requirements***" Nuclear Instrumentation and Methods in Physics Research A Vol. 784, Pages 438-447, June 2015, https://www.sciencedirect.com/science/article/pii/S0168900215000923

12. Y. Ifergan, S. Dadon, I. Israelashvili, **A. Osovizky**, E. Gonen, Y. Yehuda-Zada, D. Smadja, Y. Knafo, D. Ginzburg, Y. Kadmon, Y. Cohen, T. Mazor, ***"Utilization of Wavelength-Shifting Fibers Coupled to ZnS(Ag) and Plastic Scintillator for Simultaneous Detection of Alpha/Beta Particles"*** Nuclear Instrumentation and Methods in Physics Research A Vol. 784, Pages 93-96 June 2015, https://www.sciencedirect.com/science/article/pii/S0168900214013370

13. V. Bronfenmakher, B. Sarusi, V. Pushkarsky, D. Ginzburg, Y. Ifergan, B. Asaf, T. Mazor, I. Orion, Y. Cohen and **A. Osovizky**, "***Development of a User Interface Software for Gamma Spectrum Simulation and Analysis",*** publication at Journal of Applied Global Research (JAGR), Vol. 7 Issue 19, Pages 58-66 April 2014, http://www.intellectbase.org/JAGR.php

14. A. Beck, I. Israelashvili, U. Wengrowicz, E.N. Caspi, I. Yaar, **A. Osovizky**, A. Ocherashvili, H. Rennhofer, B. Pedersen, J.-M. Crochemore and E. Roesgen, "***Time Dependent Measurements of Induced Fission for SNM Interrogation",*** JINST Vol. 8 Pages 1-10 Aug. 2013**.** doi:10.1088/1748-0221/8/08/P08011

15. **A. Osovizky**, D. Ginzburg, A. Manor, R. Seif, M. Ghelman, I. Cohen-Zada M. Ellenbogen, V. Pushkarsky, E. Gonen, T. Mazor, Y. Cohen, "***SENTIRAD - Innovative Personal Radiation Detector Based on Scintillation Detector and Silicon Photomultiplier***", Nuclear Instrumentation and Methods in Physics Research A, Vol. 652, issue 1, Pages41-44, Oct. 2011. doi:10.1016/j.nima.2011.01.027

16. D. Ginzburg, , N. Kopeika, J. Paran, 1. Cohen-Zada, M. Ghelman, V. Pushkarsky, E. Marcus, A. Manor, T. Mazor, Y. Kadmon, Y. Cohen and **A. Osovizky** "***Optimization design of silicon photomultipliers based radiation detector***", Nuclear Instrumentation and Methods in Physics Research A, Vol. 652, issue 1, Pages474-478, Oct. 2011. doi:10.1016/j.nima.2011.01.022

17. M. Ghelman, E. Paperno, D. Ginzburg, T. Mazor, Y. Cohen and **A. Osovizky**, "***SubmW Spectroscopic Personal Radiation Device Based on Silicon Photomultiplier***", Nuclear Instrumentation and Methods in Physics Research A, Vol. 652, issue 1, Pages..866-869, Oct. 2011. doi:10.1016/j.nima.2010.08.062

18. **A. Osovizky**, L Cohenzada, E. Vulasky, M. Ghelman. E. Marcus, D. Ginzburg, A. Manor, N. Ankry, V. Pushkarsky, M. Lefevre Y. Kadmon and Y. Cohen, "***New Radiation Sensor Embedded in a Metal Detection Unit***", Nuclear Science, IEEE Transactions on Nuclear Science , vol.57, no.5, Pages..2758-2761, Oct. 2010. doi: 10.1109/TNS.2009.2039580

***Proceedings / conference record***

1. **A. Osovizky**, Y. Yehuda-Zada, R. Harn, I. Cohen-Zada, M. Ghelman, R. Sayef, T. Edvabsky, Y. Knafo, D. Smadja, A. Manor, D. Ginzburg, and Y. Kadmon, ***"A Modular Detection Unit Building Block Configuration for Contamination Detecto***r", IEEE NSS, Manchester UK Oct. 2019
2. **A. Osovizky**, Y. Yehuda-Zada, D. Ginzburg, Y. Ifergan, R. Sayef, Y. Knafo, T. Edvabsky, R. Harn, I. Cohen-Zada, E.Vax, M. Ghelman and Y. Kadmon, "***Optimization of a Multi-Layered Scintillator for Neutron Detection and Spectroscopy Applications***", IEEE NSS, Manchester UK Oct. 2019
3. U. Wengrowicz, **A. Osovizky**, A. Ocherashvili, D. Ginzburg, Y. Ifergan, E. Volasky, Y. Kadmon, A. Raveh, I. Orion, "***Optimization of Neutron detection Module based on Li-Glass scintillator and an array of SIPMs***", ANIMMA VI, Portoroz Slovenia June 2019
4. Vax, E. Marcus, T. Mazor, Y. Kadmon, **A. Osovizky**, "***Improving Activity Estimation in Passive Gamma Scanning for Radioactive Waste Drums***", ANIMMA VI, Portoroz Slovenia June 2019, https://www.epj-conferences.org/articles/epjconf/abs/2020/01/epjconf_animma2019_06010/epjconf_animma2019_06010.html
5. M. Ghelman, N. Kopeka, S. Rotman, T. Edvabsky, Y. Kadmon, **A. Osovizky**, **"*Design and Optimization Method for Compton Camera Based on a Silicon Photomultiplier",*** ANIMMA VI, Portoroz Slovenia June 2019
6. S. Dadon, E. Vax, D. Smadja, **A. Osovizky**, Y. Levin, I. Choen-zada, Y. Yehuda-Zada, Y. Knafo, Y. Kadmon, and Y. Ifergan, ***"Estimation of the Radiation Source Direction based Segmented Cubic Detector Configuration",*** ANIMMA VI, Portoroz Slovenia June 2019
7. **A. Osovizky**, E. Vax, A. Broide, B. Sarusi, U. Wengrowicz, M. Sheinfeld, D. Portnoy, T. Mazor, S. Dadon and Y. Kadmon "***Environmental Radiation Monitoring Metrology***", Safety Standard 505 Technical Committee, Vienna International Centre Dec. 2018
8. Manor, C. Micou, **A. Osovizky** and F. Schulcz, "***LaBr(Ce) Based Personal Radiation Detection and Identification Device***",International Conference on Advancements in Nuclear Instrumentation, Measurement Methods and their Applications, Marseille, France June (2009). https://inspirehep.net/literature/1281873
9. **A. Osovizky**, I. Cohenzada, E. Vulasky, M. Ghelman, E. Marcus, D. Ginzburg, A. Manor, N. Ankry, V. Pushkarsky, M. Lefevre Y. Kadmon and Y. Cohen, "***New Radiation Sensor Embedded in a Metal Detection Unit***", International Conference on Advancements in Nuclear Instrumentation, Measurement Methods and their Applications, p.200, Marseille, France Jun. (2009). doi: 10.1109/ANIMMA.2009.5503723
10. **A. Osovizky** and D. Ginzburg, "***Robust and Flexible Design of Neutron Scintillation Detector Based on Wavelength Shifter and Silicon Photomultiplier***", International Conference on the Security of Radioactive Material: The Way Forward for Prevention and Detection, IAEA Dec. 2018
11. R. Harn, U. Wengrowicz, **A. Osovizky**, A. Manor, T. Mazor, D. Shmidov, D. Ginzburg, Y. Kadmon and M. Ghelman, ***"High Speed Continuous Self Calibrated Density Measuring System Based on a Gamma Source"***, 29th Conference of the Nuclear Societies, Herzliya, Israel, May 2018.

12. Y. Knafo, J. Nir, A. Manor, **A.Osovizky**, D. Ginzburg and Y. Kadmon, ***"Excitation Voltage Switching Circuit for G.M Detectors"***, 29th Conference of the Nuclear Societies, Herzliya, Israel, May 2018.

13. Portnoy, E. Vax, B. Sarusi, **A. Osovizky**, A. Broide and Y. Kadmon, ***"Software Architecture for Developing a Simulator for Environmental Radiation Monitoring System"***, 29th Conference of the Nuclear Societies, Herzliya, Israel, May 2018.

14. T. Edvabsky, **A. Osovizky**, Y. Kadmon and M. Ghelman, ***"Spectral Resolution Improvement by Waveform Estimation Methods"***, 29th Conference of the Nuclear Societies, May 2018, Herzliya, Israel, May 2018.

15. Y. Knafo, B. Sarussi, D. Ginzburg, A. Manor, Y. Kadmon and **A. Osovizky**, ***"Advanced Electronics Platform Based on MCU for Nuclear Applications"***, 29th Conference of the Nuclear Societies, Herzliya, Israel, May 2018.

16. Y. Yehuda-Zada, D. Smadja, T. Kalman Vaknin ,Y. Ifergan, I. Cohen Zada, E. Sheli, A. Ohana, Y. Kadmon and **A. Osovizky,** ***"Light Collection Optimization for Large Area Plastic & ZnS(Ag) Scintillator Embedded in a Thin Detector Configuration"***, 29th Conference of the Nuclear Societies, Herzliya, Israel, May 2018.

17. Y. Knafo, D. Shmidov, V. Ladyzhensky, A. Manor, **A. Osovizky** and D. Ginzburg, ***"Temperature Dependence of Gamma-Neutron Discrimination Using Silicon Photomultiplier and LiI(Eu) Scintillation Crystal"***, 29th Conference of the Nuclear Societies, Herzliya, Israel,May 2018.

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