

**NIKOLOPOULOS DIMITRIOS**  
**RADIATION-HEALTH PHYSICIST**

**CURRICULUM VITAE**

**Date: 17/12/2021**

## **ANALYTICAL CURRICULUM VITAE**

### **1. PERSONAL INFORMATION**

Full name: Nikolopoulos Dimitrios

Date of birth: 25/8/1971

Place of birth: Athens, Attica, Greece

Nationality: Hellenic

Address of residence: Korytsas 36-40, Vironas, 16231, Athens, Greece

Telephones of residence: +3-6977208318

Current address of work: University of West Attica,  
Department of Industrial Design and Production Engineering,  
Petrou Ralli & Thivon 250, GR122 44, Aigaleo, Greece

Telephones of work: +3210-5381338

Electronic post: [dniko@uniwa.gr](mailto:dniko@uniwa.gr)  
[nikolopoulosdimitrios@gmail.com](mailto:nikolopoulosdimitrios@gmail.com)

Skype : dimitriosnikolopoulos  
dr.dimitrios.nikolopoulos

Internet <http://env-hum-comp-res.daidalos.teipir.gr/>

url-1 <http://scholar.google.gr/citations?user=BuZ2IJQAAAAJ&hl=el>

url-2 <https://orcid.org/0000-0002-8559-9440?lang=en>

url-3 [https://www.researchgate.net/profile/Dimitrios\\_Nikolopoulos6](https://www.researchgate.net/profile/Dimitrios_Nikolopoulos6)

### **2. PRESENT PLACE**

Professor, University of West Attica

### **3. MILITARY MILITARY SERVICE**

21 April 1999 - 23 February 2001 Service as an Officer of the Hellenic Army

## **4. EDUCATION - FURTHER TRAINING - DIPLOMAS**

### **4.1. Basic levels**

1977-1983, Municipal School of Kallithea

(Grades: Excellent)

1983-1986, High school of Kallithea

(Grades: Excellent)

1986-1989, Lyceum of Kallithea

(Grades Excellent)

### **4.2. University progress & degrees**

Department of Physics, National University of Athens University (1990-1994)

Collaborator (1990-1992) of the Medical Imaging team of the Nuclear Physics sector, Department of Physics, Athens University, Head: Prof. Dr.G.Tzanakos, former Professor of Nuclear Physics.

-Collaborator (1992-1994) of the Medical Physics team of the Nuclear Physics sector, Department of Physics, Athens University, Head: Prof.Dr. A.Aggelopoulos, former Professor of Nuclear Physics .

Degree (1994) in Physics: 7.76.

### **4.3. Post-Graduate training**

Doctor Candidate (1994) in the Medical Physics Department, Medical Faculty of the University of Athens in the subject “Study of exposure of the Greek population to Radon-222”, Head: Prof.Dr.C.Proukakis.

Training-work (1994-1997) in the Laboratory of Radionuclides (Department of Whole-body Radiation) in the Ippokrateion of Hospital Athens under the supervision of Medical Physics Department, Medical Faculty of the University of Athens.

- Training (1997-2000) in environmental and medical radiation focusing on dosimetry, human effects and risk estimation, Medical Physics Department, Medical Faculty of the University of Athens.

- PhD degree (2000) in the subject “Study of exposure of the Greek Population to Radon-222”, Medical Physics Department, Medical Faculty of the University of Athens, Degree: Excellently.

#### **4.4.Post-Doctoral training**

Collaborator (2000-2004), Laboratory of Medical Physics, Medical Faculty of Athens University.

Teaching Assistant & Collaborator (2000-2007), Department of Medical Instrumentation and Technology, TEI of Athens.

Teaching Assistant & Collaborator (2000-2013), Department of Physics, Chemistry and Material Technology, TEI of Piraeus.

#### **4.5. Continuous training**

##### *Conferences (participation):*

- 1) Pan-Hellenic Congress of Physics Pan-Hellenic Congress “10 years afterwards the accident in Chernobyl-the repercussions of accident in Greece”, Amphitheater EKEFE Dimokritos, Saint Friday Attica of 22-23 April 1996.
- 2) Meeting “Radon and Cesium, Two radioactive elements in the city of Karditsa”, EBE (Commercial and Craft-based Chamber), Karditsa of 25 May 96.
- 3) Scientific Meeting “Radon and Greek Residence”, Amfitheatro EKEFE Dimokritos, Saint Friday Attica, 6 June 1996.
- 4) European Conference on Protection Against Radon at Home and at Work, Praha Czech Republic, June 2-6 1997.
- 5) The Second Regional Mediterranean Congress on Radiation Protection, Tel-Aviv, Israel, November 16-20 1997.
- 6) 1st Southeastern-European Regional Radon Workshop, Athens, Greece, 3-5 April 1997.
- 7) 1st Meeting of Researchers that deals with Radon in Greece, Laboratory of Nuclear Technology E.M.P, Athens, 23 January 1998.
- 8) Pan-Hellenic Congress of Radioactivity of Environment, Athens EKEFE “DIMOKRITOS”, 23-24 November 2001.
- 9) 7th International Symposium Natural Radiation Environment, Rhodes, Greece, 20-24 May, 2002.
- 10) MEDICON 2004, the 10th Mediterranean Conference of the International Federation for Medical and Biological Engineering, IFMBE.

- 11) European Conference on Protection Against Radon at Home and at Work, June 29  
July 6 2004, Praha
- 12) 4th European Symposium on Biomedical Engineering, 25-26-27 June 2004, Patra  
Greece.
- 13) 1st International Conference "From scientific computing to computational engineering",  
IC-SCCE, 8-10 September, 2004, Athens, Greece.
- 14) Nuclear Science Symposium (NSS) and Medical Imaging Conference (MIC) and  
Semiconductor X-ray and g-ray detectors Workshop, October 16-22, 2004, Rome.
- 15) European Radiology Congress (ECR), February, Wien 2004
- 16) Pan-Hellenic Radiological Congress of XIV 29 September-2 October 2004, Athens 18.
- 17) European Radiology Congress 2005, Wien
- 18) Congress SPECIAL TRAINING PROGRAM Archimedes, POLYTECHNIC COLLEGES  
Athens 2005
- 19) 1st IC-EpsMSO LFME Patra Greece.
- 20) 1st European Conference on Molecular Imaging Technology 9-12 May 2006, Marseille,  
France
- 21) 3rd International Conference on Imaging Technologies in Biomedical Sciences:  
ITBS2005 Milos Greece. European Nuclear Medicine Symposium 2006
- 22) 10th International Symposium on Radiation Physics (ISRP-10), 17-22 September,  
2006, Coimbra, Portugal
- 23) IC-CCSE 2006, International Conference of Computational Methods in Sciences and  
Engineering
- 24) EUROPEAN SYMPOSIUM ON BIOMEDICAL ENGINEERING, 2006, Patra Greece
- 25) European Geophysical Union, EGU 2009, Vienna, Austria

- 26) European Geophysical Union, EGU 2010, Vienna, Austria
- 27) European Geophysical Union, EGU 2011, Vienna, Austria
- 28) erA-7, 2012, The Conference for International Synergy in Energy, Environment, Tourism and contribution of Information Technology in Science, Economy, Society and Education
- 29) erA-8, 2013, The Conference for International Synergy in Energy, Environment, Tourism and contribution of Information Technology in Science, Economy, Society and Education
- 30) BIOMEPP 2013, 2nd International Conference on Biomedical Instrumentation and Related Engineering and Physical Sciences
- 31) RPM 2014, Varna, Bulgaria - 2nd International conference on radiation protection in medicine
- 32) ICCE-2014, International Conference on Clean Energy-2014, June 8-12, 2014, Istanbul, Turkey
- 33) erA-9, 2014, The Conference for International Synergy in Energy, Environment, Tourism and contribution of Information Technology in Science, Economy, Society and Education
- 34) erA-10, 2015, The Conference for International Synergy in Energy, Environment, Tourism and contribution of Information Technology in Science, Economy, Society and Education.
- 35) European Conference on Protection Against Radon at Home and at Work, Praha, Workshop, June 2-6 1997.
- 36) 1<sup>st</sup> Southeastern - European Regional Radon Workshop, Athens, Laboratory Intercomparison II, 3-5 April 1997.

#### **4.6. Technical-Technological skills**

- Measurement of radon and progeny
- Measurement of environmental ionising and non-ionising radiation
- Monte Carlo simulation of medical imaging detectors
- EGSnrcMP -GATE/GEANT 4, MCNP expertise
- Experimental and theoretical techniques of scintillator physics
- Nanophosphors and Quantum Dots.
- Radiation-Health dosimetry and safety
- Health Effects of Electromagnetic Radiation
- Signal Analysis methods-Wavelets
- Chaos-Fractals
- Entropy and Block Entropy techniques-Symbolic Dynamics
- Environmental EM radiation-Soil radon- Earthquake precursors
- Data reduction and error analysis
- Statistics and non-linear methods
- Medical Imaging
- g++,gfortran (skilled), BASIC, Pascal
- Linux (experienced user), Octave, GNUplot (experienced user)
- Operating systems: LINUX, UNIX, Windows (experienced user)
- Applications PC: Open-Libre Office, Word, Excel, Access, PowerPoint, SPSS, Mathematica, Minitab, StatPlus, PC Origin, ROOT, Grace e.tc. (experienced user)

#### **4.7. Foreign Languages**

English (excellent)

German (very well)

## **5. UNIVERSITY TEACHING**

### **5.1. Basic degree**

*LABORATORY OF MEDICAL PHYSICS OF UNIVERSITY ATHENS (1994-1996)*

Laboratory exercises in Medical Physics, Medical School, University of Athens

*f. TEI of ATHENS (2001-2006)*

Ionising Radiations, I, II, III

Quality assurance in Nuclear Medicine

Quality assurance in Radiotherapy

Compartmental Analysis

Dosimetry in Nuclear Medicine

Linear Accelerator

TOTAL OF HOURS OF TEACHING: 760

*f. TEI of PIRAEUS (2002-today)*

Laboratory exercises in Physics

Physics, Digital Communications (lectures)

TOTAL OF HOURS OF TEACHING: >5,000

*Supervision of postgraduate thesis: >30*

*UNIVERSITY of WEST ATTICA*

Physics (lectures), Signals and Systems (lab)

TOTAL OF HOURS OF TEACHING: 160

## **5.2.POSTGRADUATE DEGREE**

*LABORATORY OF MEDICAL PHYSICS UNIVERSITY OF PATRAS (2002-2005 & 2017-2020)*

MSc course in Medical Physics:

- Qualitative assurance in Nuclear Medicine
- Radiopharmaceuticals
- Dosimetry in Nuclear Medicine
- Interaction of Radiation with Matter

f.Piraeus University of Applied Sciences & Nottingham University,

"MSc in Education Sciences and Learning Technologies" (2015-2016)

University of West Attica,

“Erasmus+ LMPI Licence, MASTER Professionnels Pour Le Developpement, L' Administration, La Gestion, La Protection Des Systemes Et Reseaux Informatiques Dans Les Entreprises En Moldavie, Au Kazakhstan, Au Vietnam” (2017-2019)

## **6. ACADEMIC PLACES**

- 1.Laboratory of Radioisotopes (Department of Whole-body Radiation) Ippokation Hospital Athens, Laboratory of Medical Physics of Medical Faculty of Athens University (1994-1997)
- 2.Laboratory of Medical Physics of Medical Faculty of Athens University (1994-2001)
- 3.Department of Medical Instrumentation and Technology, f.TEI of Athens (2001 - 2006)
- 4.Department of Physics, Chemistry and Material Science, f.TEI of Piraeus (2001-2011)
- 5.Department of Electronic Computer Systems Engineering, f,TEI of Piraeus (2014-2018)
- 6.Department of Informatics and Computer Engineering, University of West Attica (2018-2019)
- 7.Department of Industrial Design and Production Engineering, University of West Attica (2019-)

## **7. COLLABORATIONS**

1. f.TEI of Piraeus, Greece
2. f.TEI of Athens, Greece, Department of Electronics
3. Athens University, Medical School, Greece, Laboratory of Medical Physics.
4. f.TEI of IONIAN ISLANDS, Greece, Department of Ecology and Environment.
5. University of Aegean, Greece, Department of Environment.
- 6.University of Cranfield, UK, School of Applied Sciences

7. Brunel University, UK, Department of Electronic Engineering

8. Georgian Technical University, Georgia

9. University of Patras, Medical School, Laboratory of Medical Physics.

10. National Technical University of Athens, Department of Mechanical engineers, Sector of Nuclear Technology.

## **8. EDITORIAL COMMITTEE**

Reviewer in the following peer-reviewed scientific journals

1. *Nature Scientific Reports*, Nature Publishing Group, Impact Factor 5.525

2. *Journal of Exposure Science and Environmental Epidemiology*, Nature Publishing Group, Impact Factor 2.927

3. *Journal of Environmental Radioactivity*, Elsevier, Impact Factor 1.339

4. *The Science of the Total Environment*, Elsevier, Impact Factor 3.536

5. *Radiation Measurements*, Elsevier, Impact Factor 1.455

6. *Applied Radiation and Isotopes*, Elsevier, Impact Factor 1.172

7. *Journal of Atmospheric and Solar-Terrestrial Physics*, Elsevier, Impact Factor 1.790

8. *Earthquake Science*, Elsevier.

9. *Radiation and Environmental Biophysics*, Springer, Impact Factor 1.696

10. *Journal of Radioanalytical and Nuclear Chemistry*, Springer, Impact Factor 1.520

11. *Acta Geophysica*, Springer, Impact Factor 1.704

12. *Environmental Monitoring and Assessment*, Springer, Impact Factor 1.663.

13. *Analytical Methods*, RCS, Impact Factor 1.547

14. *Environmental Science: Processes and Impacts*, RCS Publishing, Impact Factor 2.401

15. *Geomatics, Natural Hazards and Risk*, Taylor & Francis. Impact Factor 2.332

16. *Geosciences*, MDPI Publishing (OA), Impact Factor 1.82
17. *Atmosphere*, MDPI Publishing (OA), Impact Factor 1.704
18. *Remote Sensing*, MDPI Publishing (OA), Impact Factor 4.118
19. *Mathematical and Computational Applications*, MDPI Publishing (OA),
20. *Sensors*, MDPI Publishing (OA), Impact Factor 3.72
21. *IJERPH*, MDPI Publishing (OA)
22. *Scientific World Journal*, Hindawi (OA).
23. *Journal of Earth Science Research*, Bowen Publishing (OA)
24. *Journal of Earth Science and Climatic Changes*, OMICS (OA)
25. *Environmental Engineering and Management Journal*, Technical University of IASL.

## 9.SCIENTIFIC RESEARCH

### INTERNATIONAL FULL PAPERS IN PEER-REVIEWED INDEXED JOURNALS AND BOOKS

*The following journals and books are indexed by order in GoogleScholar, CrossRef, SCOPUS, SCI & SCI expanded, EntrezPubMed, Index Copernicus, EBSCO, OCLC, RefSeek, ProQuest, HINARI, Sherpa Romeo, Open J Gate, Geramics Journal Seek, Google*

1.ANTONOPOULOS A, GEORGIU E, KYRIAKIDIS M, **NIKOLOPOULOS D**, TOUTOUZAS P, PROUKAKIS C. Early post-exercise Thallium-201 Reinjection after sublingual Nitroglycerin Augmentation: Effects on Detection of Myocardial Ischemia and/or Viability. *Clin Cardiol* 1998; 21(6):419-426.

Impact Factor: 2.431

2. ANTONOPOULOS A, GEORGIU E, KYRIAKIDIS M, **NIKOLOPOULOS D**, PROUKAKIS C, TOUTOUZAS P. Thallium-201 for detection of myocardial viability: comparison of early postexercise reinjection and imaging with 4 and 18-24 hours redistribution imaging. *Cardiology* **1998**; 90(2):137-144.

3. **NIKOLOPOULOS D**, LOUIZI A, PETROPOULOS N, SIMOPOULOS S, PROUKAKIS C. Experimental study of cup-type radon dosimeters. *Rad Prot Dosim* **1999**; 83(3):263-266.

4. ANTONOPOULOS A, **NIKOLOPOULOS D**, GEORGIU E, KYRIAKIDIS M, PROUKAKIS C. Blood pressure elevation after phenylephrine infusion may adversely affect myocardial perfusion in patients with coronary artery disease. *Int J Cardiol* **2002**; 84(2-3):201-209.

5. **NIKOLOPOULOS D**, LOUIZI A, KOUKOULIOU V, SEREFOGLOU A, GEORGIU E, NTALLES K, PROUKAKIS C. Radon survey in Greece-Risk Assessment. *J Environ Radioactiv* **2002**; 63(2):173-176.

6. LOUIZI A, **NIKOLOPOULOS D**, KOUKOULIOU V, KEHAGIA K. Study of two areas in Greece with enhanced radon concentrations. *Rad Prot Dosim* **2003**; 106(3):219-226.

7. VOGIANNIS E, **NIKOLOPOULOS D**, LOUIZI A, HALVADAKIS C. Radon variations during treatment in thermal spas of Lesbos Island (Greece). *J Environ Radioactiv* **2004**; 75(2):159-170

8. VOGIANNIS E, **NIKOLOPOULOS D**, LOUIZI A, HALVADAKIS C. Radon exposure in the

thermal spas of Lesvos island-Greece. *Rad Prot Dosim* **2004**; 111(1):1-7.

**9.**LIAPARINOS P, KANDARAKIS I, CAVOURAS D, **NIKOLOPOULOS, D**, VALAIS I. Simulating the emission efficiency and resolution properties of fluorescent screens by Monte Carlo methods. *IEEE Nucl Sci Symp Conf Rec* **2004**; 2:1187-1191.

**10.**VALAIS I, KANDARAKIS I, **NIKOLOPOULOS D**, SIANOUDIS I, DIMITROPOULOS N, CAVOURAS D, NOMICOS C, PANAYIOTAKIS G. Luminescence efficiency of (Gd<sub>2</sub>SiO<sub>5</sub>:Ce) scintillator under X-ray excitation. *IEEE Nucl Sci Symp Conf Rec* **2004**; 5:2737-2741.

**11.**VOGIANNIS E, **NIKOLOPOULOS D**, LOUIZI A, HALVADAKIS C. Radon variations during treatment in thermal spas of Lesvos Island (Greece). *J Environ Radioactiv* **2004**; 76(3):283-294

**12.**GERANIOS A, **NIKOLOPOULOS D**, LOUIZI A, KARATZI A. Multiple Radon Survey in Spa of Loutra Edipsou (Greece). *Rad Prot Dosim* **2004**; 112(2): 251-258.

**13.**PETALAS A, VOGIANNIS S, **NIKOLOPOULOS D**, HALVADAKIS CP. Preliminary survey of outdoor gamma dose rates in Lesvos Island (Greece). *Rad Prot Dosim* **2005**; 113:336-341

**14.****NIKOLOPOULOS D**, LOUIZI A, SEREFOGLOU A, MALAMITSI J. Radon exposure of the Greek population due to radon. *Radioactivity in the Environment* **2005**; 7:425-430.

**15.**LOUIZI A, **NIKOLOPOULOS D**, SEREFOGLOU A, MALAMITSI J. Preliminary study of two

high radon areas in Greece. *Radioactivity in the Environment* **2005**; 7:431-437.

**16.**CAVOURAS D, KANDARAKIS I, **NIKOLOPOULOS D**, KALATZIS I, EPISKOPAKIS A, LINARDATOS D, ROUSSOU M, NIRGIANAKI E, MARGETIS D, VALAIS I, KALIVAS N, KOURKOUTAS K, SIANOUDIS I, DIMITROPOULOS N, LOUIZI A, NOMICOS C, PANAYIOTAKIS G. Light emission efficiency and imaging performance of  $Y_2Al_5O_{12}:Ce$  (YAG:Ce) powder scintillator under diagnostic radiology conditions, *Appl Phys (B)* **2005**; 80(7):923-933

**17.**KANDARAKIS I, CAVOURAS D, **NIKOLOPOULOS D**, ANASTASIOU A, DIMITROPOULOS N, KALIVAS N, VENTOURAS E, KALATZIS I, NOMICOS C, PANAYIOTAKIS G. Evaluation of ZnS:Cu phosphor as x-ray to light converter under mammographic conditions. *Radiat Meas* **2005**; 39(3):263-275

**18.**VALAIS I KANDARAKIS I, **NIKOLOPOULOS D**, SIANOUDIS I, LOUDOS G, GIOKARIS N, NIKITA K, CAVOURAS D, DIMITROPOULOS N, NOMICOS C, PANAYIOTAKIS G. Luminescence properties of  $LuYSiO_5:Ce$ ,  $Gd_2SiO_5:Ce$  and  $CsI:Tl$  single crystal scintillators under X-ray excitation, for use in medical imaging systems. *IEEE Nucl Sci Symp Conf Rec* **2005**; 3:1323-1327.

**19.**VALAIS I, CONSTANTINIDIS A, SALEMIS G, **NIKOLOPOULOS D**, DIMITROPOULOS N, CAVOURAS D, PANAYIOTAKIS G, KANDARAKIS I. Evaluation of cerium doped Yttrium Aluminum Oxide (YAG and YAP) powder scintillating screens for use in x-ray imaging. *Biomed Tech* **2005**; 50(1): 11-12

**20.**TSANTILAS X, LOUIZI A, VALAIS I, **NIKOLOPOULOS D**, SAKELLIOS N, KARAKATSANIS N, LOUDOS G, NIKITA K, MALAMITSI J, KANDARAKIS I. Simulation of commercial PET scanners with GATE Monte Carlo simulation package. *Biomed Tech* **2005**; 50(1):114-115.

**21.**VALAIS I, KANDARAKIS I, **NIKOLOPOULOS D**, LOUDOS G, GIOKARIS N, KARAGIANNIS C, EPISKOPAKIS A, DIMITROPOULOS N, PANAYIOTAKIS G. Experimental determination of luminescence emission properties of CsI: Tl, LuYSiO<sub>5</sub>: Ce (LYSO: Ce) and Gd<sub>2</sub>SiO<sub>5</sub>: Ce (GSO: Ce) single crystal scintillators for use in non projection X-ray imaging. *Biomed Tech* **2005**; 50(1):1112-1113

**22.****NIKOLOPOULOS D**, KANDARAKIS I, VALAIS I, GAITANIS A, CAVOURAS D, PANAYIOTAKIS G, LOUIZI A. X-ray absorption and x-ray fluorescence of medical imaging scintillating screens via application of Monte Carlo methods. *Biomed Tech* **2005**; 50(1):1124-1125.

**23.**VALAIS I, KANDARAKIS I, **NIKOLOPOULOS D**, SIANOUDIS I, DIMITROPOULOS N, CAVOURAS D, NOMICOS C, PANAYIOTAKIS G. Luminescence efficiency of Gd<sub>2</sub>SiO<sub>5</sub>:Ce scintillator under x-ray excitation. *IEEE Trans Nucl Sci* **2005**; 52(5):1830-1835

**24.**KANDARAKIS I, CAVOURAS D, SIANOUDIS I, **NIKOLOPOULOS D**, EPISKOPAKIS A, LINARDATOS D, MARGETIS D, NIRGIANNAKI E, ROUSSOU M, MELISSAROPOULOS P, KALIVAS N, KALATZIS I, KOURKOUTAS K, DIMITROPOULOS N, LOUIZI A, NOMICOS C,

PANAYIOTAKIS G. On the response of  $Y_3Al_5O_{12}:Ce$  (YAG: Ce) powder scintillating screens to medical imaging x-rays. *Nucl Instr Meth A* **2005**; 538: 615-630

**25.**KANDARAKIS I, CAVOURAS D, **NIKOLOPOULOS D**, LIAPARINOS P, EPISKOPAKIS A, KOURKOUTAS K, KALIVAS N, DIMITROPOULOS N, SIANOUDIS I, NOMICOS C, PANAYIOTAKIS G. Modelling Angular distribution of light emission in granular scintillators used in X-ray imaging detectors. In: *Recent Advances in Multidisciplinary Applied Physics*. Netherlands: Elsevier; **2005** 909-918.

**26.**CAVOURAS D, **NIKOLOPOULOS D**, EPISKOPAKIS A, KALIVAS N, SIANOUDIS I, DIMITROPOULOS N, NOMICOS C, PANAYIOTAKIS G, KANDARAKIS I. A theoretical model evaluating the angular distribution of luminescence emission in x-ray scintillating screens. *Appl Radiat Isotop* **2006**; 64(4): 508-519

**27.****NIKOLOPOULOS D**, VALAIS I, KANDARAKIS I, CAVOURAS D, LINARDATOS D, SIANNOUDIS I, LOUIZI A, DIMITROPOULOS N, VATTIS D, EPISKOPAKIS A, NOMICOS C, PANAYIOTAKIS G. Evaluation of GSO: Ce scintillator in the x-ray energy range from 40 to 140 kV for possible applications in medical X-ray imaging. *Nucl Instr Method (A)* **2006**; 560(2): 577-583.

**28.****NIKOLOPOULOS D**, KANDARAKIS I, CAVOURAS D, LOUIZI A, NOMICOS C. Investigation of radiation absorption and x-ray fluorescence of medical imaging scintillators by Monte Carlo Methods. *Nucl Instr Method (A)* **2006**; 565(2):821-832.

29.DAVID S, MICHAIL C, VALAIS I, **NIKOLOPOULOS D**, KALIVAS N, KALATZIS I, KARATOPIA A, CAVOURAS D, LOUDOS G, PANAYIOTAKIS GS, KANDARAKIS I. Luminescence efficiency of  $\text{Lu}_2\text{SiO}_5:\text{Ce}$  (LSO) powder scintillator for X-ray medical radiography applications. *IEEE Nucl Sci Symp Conf Rec* **2006**; 2: 1178-1182.

30. VALAIS I, DAVID S, MICHAIL C, **NIKOLOPOULOS D**, CAVOURAS D, SIANOUDIS I, KOURKOUTAS C, KANDARAKIS I, PANAYIOTAKIS G. Investigation of luminescence emission properties of  $(\text{Lu},\text{Y})_2\text{SiO}_5:\text{Ce}$  (LYSO:Ce) and  $(\text{Lu},\text{Y})\text{AlO}_3:\text{Ce}$  (LuYAP:Ce) single crystal scintillators under x-ray exposure for use in medical imaging. *IEEE Nucl Sci Symp Conf Rec* **2006**; 2: 1187-1191.

31.VALAIS I, KANDARAKIS I, **NIKOLOPOULOS D**, KONSTANTINIDIS A, SIANNOUDIS I, CAVOURAS D, DIMITROPOULOS N, NOMICOS C, PANAYIOTAKIS G. Evaluation of light emission efficiency of LYSO: Ce scintillator under x-ray excitation for possible applications in medical imaging. *Nucl Instr Method (A)* **2006**; 569(2):201-204.

32.KALIVAS N, VALAIS I, **NIKOLOPOULOS D**, SALEMIS G, KARAGIANNIS C, KONSTANTINIDIS A, MICHAIL C, LOUDOS G, SAKELIOS N, KARAKATSANIS N, NIKITA K, GAYSHAN VL, GEKTIN AV, SIANOUDIS I, GIOKARIS N, NOMICOS C, DIMITROPOULOS N, CAVOURAS D, PANAYIOTAKIS G, KANDARAKIS I. Imaging properties of cerium doped Yttrium Aluminum Oxide (YAP:Ce) powder scintillating screens under x-ray excitation. *Nucl Instr Method (A)* **2006**; 569(2):210-214.

33.PATATOUKAS G, GAITANIS A, KALIVAS N, LIAPARINOS P, **NIKOLOPOULOS D**,

KONSTANTINIDIS A, KANDARAKIS I, CAVOURAS D, PANAYIOTAKIS G. The effect of energy weighting on the SNR under the influence of non ideal detectors in mammographic applications. *Nucl Instr Method (A)* **2006**; 569(2):260-263.

**34.NIKOLOPOULOS D**, KANDARAKIS I, TSANTILAS X, VALAIS I, CAVOURAS D, LOUIZI A. Comparative study of the radiation detection efficiency of LSO, LuAP, GSO and YAP scintillators for use in positron emission imaging (PET) via Monte-Carlo Methods. *Nucl Instr Method (A)* **2006**; 569(2):350-354.

**35.KARAKATSANIS N**, SAKELIOS N, TSANTILAS X, DIKAIOS N, TSOUMPAS C, LAZARO D, LOUDOS G, SCHMIDTLEIN C.R, LOUIZI A, VALAIS I, **NIKOLOPOULOS D**, MALAMITSI J, KANDARAKIS J, NIKITA J. Comparative evaluation of two commercial PET scanners, ECAT EXACT HR+ and Biograph 2, using GATE. *Nucl Instr Method (A)* **2006**; 569(2): 368-372.

**36.NIKOLOPOULOS D**, VOGIANNIS E. Modelling radon progeny concentration variations in thermal spas. *Sci Tot Environ* **2007**; 373(1): 82-93.

**37.GONIAS P**, BERTSEKAS N, KARAKATSANIS N, SAATSAKIS G, GAITANIS A, **NIKOLOPOULOS D**, LOUDOS G, PAPASPYROU L, SAKELIOS N, TSANTILAS X, DASKALAKIS A, LIAPARINOS P, NIKITA K, LOUIZI A, CAVOURAS D, KANDARAKIS I, PANAYIOTAKIS GS. Validation of a GATE model for the simulation of the Siemens PET Biograph™ 6 scanner. *Nucl Instr Method (A)* **2007**; 571 (1): 263-266.

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