

CURRICULUM VITAE

PERSONAL DETAILS

NAME : IOANNIS
 SURNAME : VALAIS
 DATE OF BIRTH : 14.08.1967
 NATIONALITY : GREEK
 FAMILY STATUS : Married
 ADDRESS : 44, Ag. Nikolaou str.
 153-51 Pallini, Kantza, Greece :
 Email : valais@uniwa.gr, ivalais@yahoo.com

EDUCATION

1986-1991 B.Sc. in Medical Instrumentation, Department of Technology of Medical Instruments of the Technological Educational Institution (T.E.I.) of Athens. Grade: 7.42 "Very Good".
 1987-1989 Scholarship for three consequent years as the second best student in the class.
 B.Sc. Thesis: Renal Dialysis Machines. Comparison of various Dialysis machines and statistical presentation of failures.
 1991-1992 MSc in Biomedical Engineering, Department of Medical Physics and Bio-Engineering, University of Aberdeen, Scotland, UK.
 MSc Thesis: Energy correction in Gamma Cameras.
 2005-2008 PhD in Medical Physics, University of Patras, Department of Medicine, Medical School, Patras.
 PhD Thesis: Systematic Study of the light emission efficiency and the corresponding intrinsic physical characteristics of single crystal scintillators, doped with the trivalent Cerium (Ce³⁺) activator, in wide energy range (from 20kV-18MV) for medical applications.

EDUCATIONAL EXPERIENCE

October 1993-December 1993 Lecturer in "Nuclear Tomography" Seminar for unemployed graduates of Technological Educational Institute (T.E.I.) of Athens
 Subject: "Acquisition and processing of Nuclear Images".
 October 1995-July 1996 Laboratory Professor in Technological Educational Institute (T.E.I.), Athens Dept. of Medical Instrument Technology.
 Subject: Instructing in the Laboratory of Readiness And Preventive Maintenance of Medical Instruments.
 October 1996-July 1997 Laboratory Professor in Technological Educational Institute (T.E.I.), Athens Dept. of Medical Instrument Technology.

Subject: Instructing in the Laboratory of Readiness
And Preventive Maintenance of Medical Instruments.

| | |
|-------------------------|---|
| October 1997-July 1998 | Laboratory Professor in Technological Educational Institute (T.E.I.), Athens Dept. of Medical Instrument Technology. Subject: Instructing in the Laboratory of Readiness And Preventive Maintenance of Medical Instruments. |
| October 1998-July 1999 | Laboratory Professor in Technological Educational Institute (T.E.I.), Athens Dept. of Medical Instrument Technology. Subject: Instructing in the Laboratory of Readiness And Preventive Maintenance of Medical Instruments. |
| October 1999-July 2000 | Laboratory Professor in Technological Educational Institute (T.E.I.), Athens Dept. of Medical Instrument Technology. Subject: Instructing in the Laboratory of Readiness And Preventive Maintenance of Medical Instruments. |
| October 2000-Febr. 2001 | Laboratory Professor in Technological Educational Institute (T.E.I.), Athens Dept. of Medical Instrument Technology. Subject: Instructing in the Laboratory of Readiness And Preventive Maintenance of Medical Instrument. |
| February 2001-Oct. 2009 | Laboratory Professor in Technological Educational Institute (T.E.I.), Athens Dept. of Medical Instrument Technology. Subject: Instructing in the Laboratories of Constructions, Readiness and Preventive Maintenance of Medical Instrument. |
| October 2009-Nov. 2013 | Assistant Professor in Technological Educational Institute (T.E.I.), Athens Dept. of Medical Instrument Technology. Subject: Instructing in the Laboratory of Constructions, Preventive Maintenance and Quality Assurance of Medical Instrument. |
| November 2013-Aug. 2018 | Associate Professor in Technological Educational Institute (T.E.I.), Athens Dept. of Biomedical Engineering T.E. Subject: Design and Constructions of Medical Devices, Optoelectronics & Medical LASER, and Preventive Maintenance & Quality Assurance of Medical Instrument. |
| September 2018-Today | Professor in University of West Attica, Athens Dept. of Biomedical Engineering Subject: Design and Constructions of Medical Devices, Optoelectronics, Medical Laser, Preventive Maintenance & Quality Assurance of Medical Instrument, Jurisprudence and Quality Standards in Medical Devices, Certification Principles of Medical Devices and Management & Economical Science Principles for Engineers. |

SCIENTIFIC WORK

I contributed in the following scientific work

1) Somatostatin Receptor Detection with ¹¹¹In-Pentetreotide (evaluation of the obtained results), G.S. Limouris *et al.* G.S. Limouris, S.K. Shukla, H.I. Biersak (editors), Radionuclides for Receptors, Meditera, 167-176, 1995.

- 2) ^{111}In -Pentetreotide/ $^{99\text{m}}\text{Tc}$ -DTPA subtraction scan. A technique for improving imaging of pituitary adenomas. G.S. Limouris *et al.* Eur. J. Nucl. Med., Vol. 22, No. 8 Aug. 1995.
- 3) Researcher, in EEC supported program with subject: Pulse Oximeter Calibrator 1996-1998.
- 4) Researcher, in T.E.I. supported program with subject: Development of Hospital Network between Medical Imaging systems, 1997.
- 5) Researcher, in T.E.I. supported program with subject: Development of High Voltage Generator for Medical Equipment, 1997.
- 6) Researcher, in T.E.I. supported program with subject: Development of functionality assessment of thyroid gland by controlling the Achilles hamstring response, 1997.
- 7) Researcher, in Industrial supported program with subject: Software Development in quantification of cardiac systolic function, using gamma camera data, 1999.
- 8) Researcher, in T.E.I. supported program EPEAEK "Archimidis I" with subject: Investigation of scintillators/phosphors, for use as detectors in medical imaging systems, 2004-2006.
- 9) Researcher, in T.E.I. supported program EPEAEK "Archimidis II" with subject: Experimental Investigation and Monte Carlo simulation of scintillators/phosphors, for use as detectors in Radiology and in Nuclear Medicine imaging systems, 2005-2007.
- 10) Researcher, in T.E.I. supported program "Athena 2004" with subject: Simulation of a Breast CT system. Investigation of the effect in image quality of the scintillation material and the reconstruction filter. 2005-2006.
- 11) Researcher, in T.E.I. supported program "Athena 2004" with subject: Characterization of the skin using optical reflection spectroscopy. Development of a diagnostic method. 2005-2006.
- 12) Researcher, in the Greek-Ukraine supported program with subject: Development, modeling and experimental evaluation of scintillators for the optimization of a high resolution imaging system, for tumor detection. 2004-2006.
- 13) Researcher, in T.E.I. supported program EPEAEK "Archimidis III" with subject: «*Novel applications of x-ray Dual Energy for early diagnosis in Osteoporosis, mammography and angiography*» Acronym: XDualGnosis, Duration: 01/09/2011 - 03/04/2014 Research Domain 3. Biological and Medical sciences. Research Area LS7; Diagnostic tools, therapies and public health. Primary Field of Research. LS7_1; Medical engineering and technology.
- 14) Researcher, in T.E.I. supported program EPEAEK "Archimidis III" with subject: «*Experimental evaluation of new co-doped Scintillator materials for use in Combined Tomographic Imaging Systems.*» Acronym: ScoDo, Duration: 01/09/2011 - 31/08/2013 Research Domain 5. Mathematics, Physics, Chemistry. Research Area LS7; Diagnostic tools, therapies and public health. Primary Field of Research. LS7_1;
- 15) Researcher, in T.E.I. supported program EPEAEK "Archimidis III" with subject: «*Development of Monte Carlo simulation tool for evaluation of nano-phosphor based X-ray imaging detectors.*» Acronym: NanoCarlo, 01/09/2011 - 31/08/2013 Research Domain 3. Biological and Medical sciences. Research Area LS7; Diagnostic tools, therapies and public health. Primary Field of Research. LS7_1; Medical engineering and technology.
- 16) Researcher, in T.E.I. supported program «ESPA 2007-2013» «Excellence». Subject: «Medical Image Science through Luminescence (MISCIRLU project)». Acronym: Miscirlu, Research Domain 6 'Medical Sciences', No of Proposal: 1476

EDITOR / GUEST EDITOR IN SCIENTIFIC JOURNALS

1. e-Journal of Science & Technology, e-JST, 2nd Issue, Vol. 5, 2010, URL: http://e-jst.teiath.gr/dekapente_teuxos.htm
2. e-Journal of Science & Technology, e-JST, 3rd Issue, Vol. 7, 2012, URL: http://e-jst.teiath.gr/eikosiexi_teuxos.htm

3. e-Journal of Science & Technology, e-JST, 3rd Issue, Vol. 9, 2014, URL: http://e-jst.teiath.gr/triantaexi_teuxos.htm
4. e-Journal of Science & Technology, e-JST, 4th Issue, Vol. 9, 2014, URL: http://e-jst.teiath.gr/triantaapta_teuxos.htm

PUBLICATIONS

BOOKS:

J.G. Webster. Medical Instrumentation, Applications and Design. Translation in Greek-Editors: I. Valais, I. Kontodimopoulos, I. Loukos. “ ”, 1st edition 2004, pages 751, ISBN: 960-286-824-4.

INTERNATIONAL SCIENTIFIC JOURNALS

1. C. Hornberger, P. Knoop, W. Nahm, H. Matz, E. Konecny, H. Gehring, R. Bonk, H. Frankenberger, G. Meyfroid, J. Gil-Rodriguez, P. Wouters, L. Ponz, K. Benekos, J. Valais, J. Avgerinos, A. Karoutis, A. Ikiades and S. Weininger: A Prototype Device for Standardized Calibration of Pulse Oximeters, *Journ. Clin. Monit. and Comp.*; 16: 3: 161-169, 2000.
IF (2000): 0.488
2. C. Hornberger, H. Matz, E. Konecny, H. Frankenberger, R. Bonk, J. Avgerinos, K. Benekos, J. Valais, A. Ikiades, J. Gil-Rodriguez, P. Wouters, G. Meyfroid, L. Ponz, H. Gehring: Design and Validation of a Pulse Oximeter Calibrator. *Anesth. Analg.*; 94: S8-S12, 2002.
IF (2002): 2.332
3. P.F. Wouters, H. Gehring, G. Meyfroid, L. Ponz, J. Gil-Rodriguez, C. Hornberger, R. Bonk, H. Frankenberger, K. Benekos, J. Valais, J. Avgerinos and E. Konecny: Accuracy of Pulse Oximeters: The European Multi-Center Trial, *Anesth. Analg.*; 94: S13-S16, 2002.
IF (2002): 2.332
4. D. Cavouras, I. Kandarakis, D. Nikolopoulos, I. Kalatzis, A. Episkopakis, G. Kagadis, N. Kalivas, D. Linardatos, M. Roussou, E. Nirgianaki, D. Margetis, I. Valais, I. Sianoudis, K. Kourkoutas, N. Dimitropoulos, A. Louizi, C. Nomicos, G. Panayiotakis.: Light emission efficiency and imaging performance of Y₂Al₅O₁₂: Ce (YAG: Ce) powder screens under diagnostic radiology conditions. *Applied Physics B (Lasers and Optics)*, 80 pp. 923-933, 2005.
IF (2005): 2.056
5. I. Valais, A. Konstantinidis, G. Salemis, D. Nikolopoulos, N. Dimitropoulos, G. Panayiotakis, D. Cavouras, and I. Kandarakis. Evaluation of cerium doped Yttrium Aluminum Oxide (YAG and YAP) powder scintillating screens for use in x-ray imaging. *Biomedizinische Technik*, Vol. 50, (part 1), pp. 11-12, 2005.
IF (2005): 0.889
6. I. Valais, I. Kandarakis, D. Nikolopoulos, G. Loudos, N. Giokaris, C. Karagiannis, A. Episkopakis, and G.S. Panayiotakis. Experimental determination of luminescence emission properties of CsI:Ti, Lu₂SiO₅:Ce (LYSO:Ce) and Gd₂SiO₅:Ce (GSO:Ce) single crystal scintillators under x-ray exposure for use in medical imaging. *Biomedizinische Technik*, Vol. 50, (part 2), pp. 1112-1113, 2005
IF (2005): 0.889
7. D. Nikolopoulos, I. Kandarakis, I. Valais, A. Gaitanis, D. Cavouras: X-ray absorption and X-ray fluorescence of medical imaging scintillating screens via application of Monte Carlo methods. *Biomedizinische Technik*, Vol. 50, (part 2), pp. 1124-1125, 2005.
IF (2005): 0.889
8. X. Tsantilas, A. Louizi, J. Valais, D. Nikolopoulos, N. Sakellios, N. Karakatsanis, G. Loudos, K. Nikita, J. Malamitsi, I. Kandarakis: Simulation of commercial PET scanners with GATE Monte Carlo simulation package. *Biomedizinische Technik*, Vol. 50, (part 1), pp. 114-115, 2005
IF (2005): 0.889
9. I. Valais, I. Kandarakis, D. Nikolopoulos, I. Sianoudis, N. Dimitropoulos, D. Cavouras, C. Nomicos, G. Panayiotakis.: Luminescence efficiency of Gd₂SiO₅: Ce scintillator under x-ray excitation. *IEEE Trans Nucl. Sc.* Vol. 52, No 5, pp. 1830-1835, Oct. 2005.
IF (2005): 1.259
10. D. Nikolopoulos, I. Valais, I. Kandarakis, D. Cavouras, D. Linardatos, I. Sianoudis, A. Louizi, N. Dimitropoulos, D. Vattis, A. Episkopakis, C. Nomicos and G. Panayiotakis 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 Inst. Meth. Res. A*, 560, pp. 587-583, 2006.

- IF (2006): 1.185**
11. **Valais**, I. Kandarakis, D. Nikolopoulos, A. Konstantinidis, I. Sianoudis, D. Cavouras, N. Dimitropoulos, C. Nomicos, G.S. Panayiotakis: Evaluation of light emission efficiency of LYSO: Ce scintillator under x-ray excitation for possible applications in medical imaging, *Nucl. Inst. Meth. Res. A*, 569 (2), pp. 201-204, 2006.
IF (2006): 1.185
 12. N. Kalivas, **I. Valais**, G. Salemis, C. Karagiannis, A. Konstantinidis, D. Nikolopoulos, G. Loudos, N. Sakelios, N. Karakatsanis, K. Nikita, V.L. Geysan, A.V. Gektin, I. Sianoudis, N. Giokaris, C.D. Nomicos, N. Dimitropoulos, D. Cavouras, G. Panayiotakis and I. Kandarakis: Imaging properties of cerium doped Yttrium Aluminum Oxide (YAP:Ce) powder scintillating screens under x-ray excitation, *Nucl. Inst. Meth. Res. A*, 569 (2), pp. 210-214, 2006.
IF (2006): 1.185
 13. D. Nikolopoulos, I Kandarakis, X. Tsantilas, **I. Valais**, D. Kavouras, A. Louizi: 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. Inst. Meth. Res. A*, 569 (2), pp. 350-354, 2006.
IF (2006): 1.185
 14. N. Karakatsanis, N. Sakellios, X. Tsantilas, N. Dikaios, C. Tsoumpras, K. Nikita, D. Lazaros, G. Loudos, A. Louizi, **I. Valais**, D. Nikolopoulos, J. Malamitsi, I. Kandarakis: A comparative evaluation of two commercial PET scanners using GATE. *Nucl. Inst. Meth. Res. A*, 569 (2), pp. 368-372, 2006.
IF (2006): 1.185
 15. D. Nikolopoulos, I. Kandarakis, D. Cavouras, **I. Valais**, D. Linardatos, C. Michail, S. David, A. Gaitanis, C. Nomicos, A. Louizi (2006) Investigation of radiation absorption and X-ray fluorescence properties of medical imaging scintillators by Monte Carlo methods *Nucl. Instrum. Meth. Phys. Res. A* 565:821-832. doi:10.1016/j.nima.2006.05.170.
IF (2006): 1.185
 16. Kandarakis, D. Cavouras, D. Nikolopoulos, A. Episkopakis, N. Kalivas, P. Liaparinos, **I. Valais**, G. Panayiotakis.: A theoretical model evaluating the angular distribution of luminescence emission in X-ray scintillating screens. *Appl. Rad. Isot.* 64(4), pp. 508-519, 2006.
IF (2006): 0.924
 17. D. Nikolopoulos, D. Linardatos, **I. Valais**, C. Michail, S. David, P. Gonias, N. Bertsekas, D. Cavouras, A. Louizi, I. Kandarakis: Monte Carlo validation in the diagnostic radiology range. *Nucl Inst. Meth. Res. A*, 571, pp. 267-269, 2007
IF (2007): 1.114
 18. **I. Valais**, D. Nikolopoulos, N. Kalivas, A. Gaitanis, G. Loudos, I. Sianoudis, N. Giokaris, D. Cavouras, N. Dimitropoulos, C. D. Nomicos, I. Kandarakis and G. S. Panayiotakis: A systematic study of the performance of the CsI:Tl single crystal scintillator under x-ray excitation. *Nucl Inst. Meth. Res. A*, 571, pp. 343-345, 2007.
IF (2007): 1.114
 19. N. Kalivas, **I. Valais**, D. Nikolopoulos, A. Konstantinidis, A. Gaitanis, D. Cavouras, C.D. Nomicos, G. Panayiotakis, I. Kandarakis: Light emission efficiency and imaging properties of YAP:Ce granular phosphor screens. *Appl. Phys. A*, 89 (2), p. 443-449, 2007
IF (2007): 1.857
 20. S. David, C. Michail, **I. Valais**, D. Nikolopoulos, P. Liaparinos, N. Kalivas, I. Kalatzis, N. Efthimiou, A. Toutountzis, G. Loudos, I. Sianoudis, D. Cavouras, C.D. Nomicos, I. Kandarakis: Efficiency of Lu₂SiO₅:Ce (LSO) powder phosphor as X-ray to light converter under mammographic imaging conditions. *Nucl Inst. Meth. Res. A*, 571, pp. 346-349, 2007. doi:[10.1016/j.nima.2006.10.106](https://doi.org/10.1016/j.nima.2006.10.106).
IF (2007): 1.114
 21. N. Efthimiou, N. Kalivas, G. Patatoukas, A. Konstantinidis, **I. Valais**, D. Nikolopoulos, A. Gaitanis, S. David, C. Michail, G. Loudos, D. Cavouras, G.S. Panayiotakis, I. Kandarakis: Investigation of the effect of the scintillator material on the overall X-ray detection system performance by application of analytical models. *Nucl Inst. Meth. Res. A*, 571, pp. 270-273, 2007. doi:[10.1016/j.nima.2006.10.080](https://doi.org/10.1016/j.nima.2006.10.080).
IF (2007): 1.114
 22. A. Karatopis, O. Benekos, E. Efstathopoulos, **I. Valais**, I. Kandarakis, N. Kelekis: Molecular imaging through 1H MRS and MRSI in everyday routine: Improvements in various clinical applications and parameter optimization of spectroscopic imaging sequences. *Nucl Inst. Meth. Res. A*, 571, pp. 502-505, 2007
IF (2007): 1.114
 23. C. Michail, S. David, P. Liaparinos, **I. Valais**, D. Nikolopoulos, N. Kalivas, A. Toutountzis, I. Sianoudis, D. Cavouras, N. Dimitropoulos, C. D. Nomicos, K. Kourkoutas, I. Kandarakis, G. S. Panayiotakis (2007) Evaluation of the imaging performance of LSO powder scintillator for use in x-ray mammography *Nucl. Instrum. Meth. Phys. Res. A* 580:558-561 doi:[10.1016/j.nima.2007.05.234](https://doi.org/10.1016/j.nima.2007.05.234).
IF (2007): 1.114

24. **I. Valais**, S. David, C. Michail, D. Nikolopoulos, P. Liaparinos, D. Cavouras, I. Kandarakis and G. S. Panayiotakis (2007) Comparative study of luminescence properties of LuYAP:Ce and LYSO:Ce single crystal scintillators for use in medical imaging, *Nucl. Instrum. Methods Phys. Res. A* 580(1):614-616. doi:[10.1016/j.nima.2007.05.023](https://doi.org/10.1016/j.nima.2007.05.023).
IF (2007): 1.114
25. **I. Valais**, S. David, C. Michail, A. Konstantinidis, I. Kandarakis and G. S. Panayiotakis (2007) Investigation of luminescence properties of the LSO:Ce, LYSO:Ce and GSO:Ce crystal scintillators under low-energy X-ray excitation used in nuclear imaging. *Nucl. Instrum. Meth. Phys. Res. A* 581:99-102. doi:[10.1016/j.nima.2007.07.037](https://doi.org/10.1016/j.nima.2007.07.037).
IF (2007): 1.114
26. **I. G. Valais**, I. S. Kandarakis, D. N. Nikolopoulos, C. M. Michail, S. L. David, G. K. Loudos, D. A. Cavouras and G. S. Panayiotakis (2007) [Luminescence properties of \(Lu,Y\)₂SiO₅:Ce and Gd₂SiO₅:Ce single crystal scintillators under x-ray excitation, for use in medical imaging systems](#) *Trans. Nucl. Sci.* 54(1):11-18.
IF (2007): 1.107
27. C. Michail, S. David, **I. Valais**, D. Nikolopoulos, I. Sianoudis, C. Nomicos, N. Dimitropoulos, G. Panayiotakis, D. Cavouras and I. Kandarakis (2007) [Investigation of the radiation absorption and light emission properties of a 25 mg/cm² Lu₂SiO₅:Ce \(LSO\) scintillating screen for use in x-ray digital mammography detectors](#) *e-Journal of Science & Technology, (e-JST)* 2(1):72-80
28. C. M. Michail, **I. G. Valais**, A. E. Toutountzis, N. E. Kalyvas, G. P. Fountos, S. L. David, I. S. Kandarakis, G. S. Panayiotakis (2008) [Light emission efficiency of Gd₂O₂S:Eu \(GOS:Eu\) powder screens under X-ray mammography conditions](#), *Trans. Nucl. Sci.* 55(6):3703-3709.
IF (2008): 1.737
29. **I. G. Valais**, C. M. Michail, S. L. David, A. Konstantinidis, D. A. Cavouras, I. S. Kandarakis and G. S. Panayiotakis (2008) [Luminescence emission properties of \(Lu,Y\)₂SiO₅:Ce \(LYSO:Ce\) and \(Lu,Y\)AlO₃:Ce \(LuYAP:Ce\) single crystal scintillators under x-ray medical image conditions](#) *Trans. Nucl. Sci.* 55(2):785-789.
IF (2008): 1.737
30. **I. Valais**, C. Michail, S. David, L. Costaridou, C.D. Nomicos, G.S. Panayiotakis, I. Kandarakis, (2008) [A Comparative Study of the Luminescence Properties of LYSO:Ce, LSO:Ce, GSO:Ce and BGO Single Crystal Scintillators for Use in Medical X-Ray Imaging](#), *Physica Medica* 24:122-125.
IF (2008): 1.045
31. S. David, C. Michail, **I. Valais**, A. Toutountzis, D. Cavouras, I. Kandarakis, G. Panayiotakis (2008) [Investigation of luminescence properties of Lu₂SiO₅:Ce \(LSO\) powder scintillator in the x-ray radiography energy range](#) *Trans. Nucl. Sci.* 55(6):3684-3691.
IF (2008): 1.737
32. Petropoulou A., N. Kalyvas, I. Kandarakis, **I. Valais** and G.S. Panayiotakis: "The influence of software filtering in digital mammography image quality" JINST 4 P06016, 2009, doi:10.1088/1748-0221/4/06/P06016
IF (2009): 2.102
33. N. Kalyvas, **I. Valais**, L. Costaridou, I. Kandarakis, D. Cavouras, C.D. Nomicos and G. Panayiotakis: "Evaluating optical spectral matching of phosphor-photodetector combinations" JINST 4 P07003, 2009, doi:10.1088/1748-0221/4/07/P07003
IF (2009): 2.102
34. C. M. Michail, G. P. Fountos, S. L. David, **I. G. Valais**, A. E. Toutountzis, N. E. Kalyvas, I. S. Kandarakis, G. S. Panayiotakis (2009) [A comparative investigation of Lu₂SiO₅:Ce and Gd₂O₂S:Eu powder scintillators for use in x-ray mammography detectors](#) *Meas. Sci. Technol.* 20: 104008.
IF (2009): 1.317
35. C. Michail, A. Toutountzis, S. David, N. Kalivas, **I. Valais**, I. Kandarakis, G. S. Panayiotakis (2009) [Imaging performance and light emission efficiency of Lu₂SiO₅:Ce \(LSO:Ce\) powder scintillator under x-ray mammographic conditions](#) *Appl Phys B* 95:131-139.
IF (2009): 1.992
36. C. Michail, V. Spyropoulou, N. Kalyvas, **I. Valais**, N. Dimitropoulos, G. Fountos, I. Kandarakis and G. Panayiotakis (2009) [The influence of software filtering in digital mammography image quality](#) *J. Inst.* 4:P05018.
IF (2009): 2.102
37. **I. G. Valais**, S. David, C. Michail, C. D. Nomicos, G. S. Panayiotakis and I. S. Kandarakis (2009) [Comparative evaluation of single crystal scintillators under x-ray imaging conditions](#) *J. Inst.* 4:P06013.
IF (2009): 2.102
38. Toutountzis A., C. Michail, **I. Valais**, S. David, G. Nikiforidis and I. Kandarakis (2009) [Light emission efficiency of GdAlO₃:Ce \(GAP:Ce\) powder screens under X-ray radiography conditions](#) *e-Journal of Science & Technology, (e-JST)* 4(3):23-29.

39. C. M. Michail, G. P. Fountos, P. F. Liaparinos, N. E. Kalyvas, **I. Valais** and I. S. Kandarakis, G. S. Panayiotakis (2010) [Light emission efficiency and imaging performance of Gd₂O₂S:Eu powder scintillator under X-ray Radiography conditions](#), *Med. Phys.* 37(7):3694-3703.
IF (2010): 3.070
40. C. M. Michail, A. Toutountzis, **I. G. Valais**, I. Seferis, M. Georgousis, G. Fountos, I. S. Kandarakis and G. S. Panayiotakis (2010) [Luminescence Efficiency of Gd₂O₂S:Eu Powder Phosphors as X-ray to Light Converter](#) *e-Journal of Science & Technology, (e-JST)* 5(2):25-32.
41. **I. G. Valais**, C. M. Michail, S. L. David, P. F. Liaparinos, G. P. Fountos, T. V. Paschalis, I. S. Kandarakis and G. S. Panayiotakis (2010) [Comparative Investigation of Ce³⁺ doped Scintillators in a wide Range of Photon Energies covering X-ray CT, Nuclear Medicine and Megavoltage Radiation Therapy Portal Imaging applications](#), *Trans. Nucl. Sci.* 57(1):3-7.
IF (2010): 1.591
42. S. L. David, C. M. Michail, M. Roussou, E. Nirgianaki, A. E. Toutountzis, **I. G. Valais**, G. Fountos, P. F. Liaparinos, I. Kandarakis, G. Panayiotakis (2010) [Evaluation of the luminescence efficiency of YAG:Ce powder scintillating screens for use in digital mammography detector](#) *Trans. Nucl. Sci.* 57(3):951-957.
IF (2010): 1.591
43. S. L. David, C. M. Michail, **I. G. Valais**, I. Seferis, G. Varaboutis, S. Gatsos, A. E. Toutountzis, G. Fountos, I. S. Kandarakis, G. S. Panayiotakis (2010) [Luminescence Efficiency of fast Yttrium Aluminum Garnet Phosphor Screens for use in Digital Breast Tomosynthesis](#) *e-Journal of Science & Technology, (e-JST)* 5(2):63-73. ([P043](#))
44. **I. G. Valais**, P.C. Xydias (2010) [Detectors for Imaging in Radiation Therapy](#) *e-Journal of Science & Technology, (e-JST)* 5(2):75-86.
45. C. M. Michail, V. A. Spyropoulou, G. P. Fountos, N. E. Kalyvas, **I. G. Valais**, I. S. Kandarakis and G. S. Panayiotakis (2011) [Experimental and theoretical evaluation of a high resolution CMOS based detector under X-ray imaging conditions](#), *Trans. Nucl. Sci.* 58(1):314-322.
IF (2011): 1.519
46. C. M. Michail, G. P. Fountos, **I. G. Valais**, N. Kalyvas, P. Liaparinos, I. S. Kandarakis, G. S. Panayiotakis (2011) [Evaluation of the red emitting Gd₂O₂S:Eu powder scintillator for use in indirect X-ray digital mammography detectors](#), *Trans. Nucl. Sci.* 58(5):2503-2511.
IF (2011): 1.519
47. D. Nikolopoulos, N. Kalyvas, **I. Valais**, X. Argyriou, E. Vlamakis, T. Sevvos and I. Kandarakis: "A semi-empirical Monte Carlo based model of the Detector Optical Gain of Nuclear Imaging scintillators" JINST 12 P0712, 2012, 28 Oct.2012.
IF (2011): 1.869
48. **Ioannis Valais**, Christos M. Michail, Ioannis Seferis, George Fountos, Nektarios Kalyvas, Ioannis Kandarakis and George S. Panayiotakis (2012), [Scintillation screen preparation for use in digital medical systems](#) *e-Journal of Science & Technology, (e-JST)* 7(3):1-5.
49. Christoforos Ntales, Nikolaos Kynatidis, **Christos Michail**, Ioannis Seferis, **Ioannis Valais**, Nektarios Kalyvas, George Fountos and Ioannis Kandarakis (2012), [Image quality assessment in cmos and cr medical imaging systems](#), *e-Journal of Science & Technology, (e-JST)* 7(3):7-13.
50. Nektarios Kalyvas, Anna Dimou, Kostas Tsinoukas, George Fountos, Christos Michail, **Ioannis Valais** and Ioannis Kandarakis (2012), [Effect of film digitization on mammographic image quality](#), *e-Journal of Science & Technology, (e-JST)* 7(3):23-28.
51. Ioannis E. Seferis, Christos M. Michail, **Ioannis G. Valais**, George G. Fountos, Nektarios I. Kalyvas, Fotini Stromatia, Ioannis S. Kandarakis, and George S. Panayiotakis, (2012), [X-ray image degradation passing through thin glass substrate](#), *e-Journal of Science & Technology, (e-JST)* 7(3):29-31.
52. Vaia N. Koukou, Niki D. Martini, Panagiota I. Sotiropoulou, George G. Fountos, Christos M. Michail, **Ioannis G. Valais**, Ioannis S. Kandarakis and George C. Nikiforidis, (2012) [Modified polyenergetic x-ray spectra for dual energy method](#), *e-Journal of Science & Technology, (e-JST)* 7(3):79-85.
53. Panagiotis L. Tsialios, Ioannis. Loukos, Christos Nicolopoulos, Grigorios Koulouras and **Ioannis Valais**, (2012) [Assessment of the pressure developed between scoliosis brace and patient's body and evaluation of the effective time of treatment](#), *e-Journal of Science & Technology, (e-JST)* 7(3):79-85.
54. C. Michail, N. Kalyvas, **I. Valais**, S. David, I. Seferis, A. Toutountzis, A. Karabotsos, P. Liaparinos, G. Fountos, and I. Kandarakis (2013) [On the response of GdAlO₃:Ce powder scintillators](#), *J Lumin.* 144:45-52.
IF (2013): 2.367
55. I. E. Seferis, C. M. Michail, **I. G. Valais**, G. P. Fountos, N. I. Kalyvas, F. Stromatia, G. Oikonomou, I.S. Kandarakis, G. S. Panayiotakis (2013) [On the response of a europium doped phosphor-coated CMOS digital imaging detector](#), *Nucl. Instrum. Meth. Phys. Res. A.* 729:307-315.
IF (2013): 1.316

56. Seferis I., C. Michail, **I. Valais**, J. Zeler, P. Liaparinos, G. Fountos, N. Kalyvas, S. David, F. Stromatia, E. Zych, I. Kandarakis and G. Panayiotakis (2014) [Light emission efficiency and imaging performance of \$\text{Lu}_2\text{O}_3:\text{Eu}\$ nanophosphor under X-ray radiography conditions: Comparison with \$\text{Gd}_2\text{O}_2\text{S}:\text{Eu}\$](#) , *J Lumin.* 151:229-234.
IF (2014): 2.719
57. Christos M. Michail, Nektarios E. Kalyvas, **Ioannis G. Valais**, Ioannis P. Fudos, George P. Fountos, Nikos Dimitropoulos, Grigorios Koulouras, Dionisis Kandris, Maria Samarakou, and Ioannis S. Kandarakis, [Figure of Image Quality and Information Capacity in Digital Mammography](#), (2014) *Biomed Research International* 2014:634856.
IF (2014): 1.579
58. N. Kalyvas, **I. Valais**, S. David, Ch. Michail, G. Fountos, P. Liaparinos, and I. Kandarakis, [Studying the energy dependence of intrinsic conversion efficiency of single crystal scintillators under x-ray excitation](#) (2014) *Optics and Spectroscopy.* 116(5):95-99.
IF (2014): 0.723
59. G E Karpetas, C M Michail, G P Fountos, N I Kalyvas, **I G Valais**, I S Kandarakis, G S Panayiotakis, [A Novel Method for the Image Quality assessment of PET Scanners by Monte Carlo simulations: Effect of the scintillator](#), (2014) *J. Phys.: Conf. Ser.* 490 012139.
SJR Cites/doc (2014): 0.265
60. C. Michail, **I. Valais**, I. Seferis, N. Kalyvas, S. David, G. Fountos and I. Kandarakis, [Measurement of the Luminescence properties of \$\text{Gd}_2\text{O}_2\text{S}:\text{Pr,Ce,F}\$ Powder Scintillators under X-ray radiation](#), (2014) *Radiat Meas.* 70:59-64.
IF (2014): 1.213
61. Nektarios Kalyvas, Panagiotis Liaparinos, **Ioannis Valais**, Christos Michail, Stratos David and Ioannis Kandarakis, [Scintillators in X-Ray Imaging:The Miscirlu Project](#) (2014) *e-Journal of Science & Technology, (e-JST)* 9(4):1-8.
62. Panagiota I. Sotiropoulou, George G. Fountos, Niki D. Martini, Vaia N. Koukou, Christos M. Michail, **Ioannis G. Valais**, Ioannis S. Kandarakis and George C. Nikiforidis, [Dual Energy Inverse Mapping Technique to Estimate Calcium to-Phosphorus Mass Ratio in Bone Quality Assessment](#) (2014) *e-Journal of Science & Technology, (e-JST)* 9(4):15-24.
63. **Ioannis Valais**, G. Koulouras, G. Fountos, C. Michail, D. Kandris and S. Athinaios, [Design and Construction of a Prototype ECG Simulator](#) (2014) *e-Journal of Science & Technology, (e-JST)* 9(3):11-18.
64. A.S. Skouroliakou, I. Seferis, I. Sianoudis, **I. Valais**, A.F. Fragopoulou, L.H. Margaritis, [Infrared Thermography Imaging: Evaluating surface emissivity and skin](#) (2014) *e-Journal of Science & Technology, (e-JST)* 9(4):9-14.
65. Stefanos C. Angelakis, Giorgos Saatsakis, Dimitris Prionas and **Ioannis Valais**, [Electrical Safety of Medical Equipment: An Experimental Approach](#) (2014) *e-Journal of Science & Technology, (e-JST)* 9(4):25-30.
66. D. Nikolopoulos, C. Michail, **I. Valais**, P. Yannakopoulos, S. Kottou, G. Karpetas, G. Panayiotakis, [GATE Simulation of the Biograph 2 PET/CT Scanner](#), (2014) *J Nucl Med Radiat Ther* 5:201.
IF (5 Year Open Access): 1.02
67. N. Kalyvas, **I. Valais**, C. Michail, G. Fountos, I. Kandarakis, D. Cavouras, [A theoretical study of CsI:Tl columnar scintillator image quality parameters by analytical modeling](#), (2015) *Nucl. Instrum. Meth. Phys. Res. A.* 779:18-24.
IF (2015): 1.200
68. N Martini, V Koukou, N Kalyvas, P Sotiropoulou, C Michail, **I Valais**, A Bakas, I Kandarakis, G Nikiforidis and G Fountos, [Modeling indirect detectors for performance optimization of a digital mammographic detector for dual energy applications](#), (2015) *J. Phys.: Conf. Ser.* 574 01207.
SJR Cites/doc (2015): 0.326
69. V Koukou, G Fountos, N Martini, P Sotiropoulou, C Michail, N Kalyvas, **I Valais**, A Bakas, E Kounadi, I Kandarakis and G Nikiforidis, Optimization of breast cancer detection in Dual Energy X-ray Mammography using a CMOS imaging detector (2015) *J. Phys.: Conf. Ser.* 574 012076.
SJR Cites/doc (2015): 0.326
70. C. Michail, **I. Valais**, I. Seferis, N. Kalyvas, G. Fountos and I. Kandarakis, [Experimental Measurement of a High Resolution CMOS Detector Coupled to CsI Scintillators under X-ray Radiation](#), (2015) *Radiat Meas.* 74:39-46.
IF (2015): 1.071
71. C.Michail, S. David, A. Bakas, N. Kalyvas, G. Fountos, I. Kandarakis, **I. Valais**, [Luminescence Efficiency of \$\(\text{Lu,Gd}\)_2\text{SiO}_5:\text{Ce}\$ \(LGSO:Ce\) crystals under X-ray radiation](#), (2015) *Radiat Meas.*80:1-9.
IF (2015): 1.071
72. N Kalyvas, N Martini, V Koukou, C Michail, P Sotiropoulou, **I Valais**, I Kandarakis and G Fountos [A theoretical investigation of spectra utilization for a CMOS based indirect detector for dual energy applications](#) (2015) *J. Phys.: Conf. Ser.* 633 012095.
SJR Cites/doc (2015): 0.326

73. C M Michail, G E Karpetas, G P Fountos, N I Kalyvas, Niki Martini, Vaia Koukou, **I G Valais** and I S Kandarakis, [Medical Imaging Image Quality Assessment with Monte Carlo Methods](#) (2015) *J. Phys.: Conf. Ser.* 633 012096.
SJR Cites/doc (2015): 0.326
74. S L David, **I G Valais**, C M Michail and I S Kandarakis, [X-ray Luminescence Efficiency of GAGG:Ce Single Crystal Scintillators for use in Tomographic Medical Imaging Systems](#) (2015) *J. Phys.: Conf. Ser.* 637 012004.
SJR Cites/doc (2015): 0.326
75. G E Karpetas, C M Michail, G P Fountos, **I G Valais**, D Nikolopoulos, I S Kandarakis and G S Panayiotakis, [Influence of Iterative Reconstruction Algorithms on PET Image Resolution](#), (2015) *J. Phys.: Conf. Ser.* 637 012011.
SJR Cites/doc (2015): 0.326
76. C M Michail, I E Seferis, T Sideras, **I G Valais**, G P Fountos, A Bakas, G S Panayiotakis and I S Kandarakis, [Image Quality Assessment of a CMOS/Gd₂O₂S:Pr,Ce,F X-ray Sensor](#), (2015) *J. Phys.: Conf. Ser.* 637 012018.
SJR Cites/doc (2015): 0.326
77. C M Michail, G E Karpetas, G P Fountos, **I G Valais**, D Nikolopoulos, I S Kandarakis and G S Panayiotakis, [Assessment of the Contrast to Noise Ratio in PET Scanners with Monte Carlo Methods](#), (2015) *J. Phys.: Conf. Ser.* 637 012019.
SJR Cites/doc (2015): 0.326
78. P I Sotiropoulou, G P Fountos, N D Martini, V N Koukou, C M Michail, **I G Valais**, I S Kandarakis and G C Nikiforidis, [X-ray dual energy spectral parameter optimization for bone Calcium/Phosphorus mass ratio estimation](#), (2015) *J. Phys.: Conf. Ser.* 637 012025.
SJR Cites/doc (2015): 0.326
79. I Stathopoulos, K Skouroliakou, C Michail and **I Valais**, [Dynamic Infrared Thermography Study of Blood Flow Relative to Lower Limb Position](#), (2015) *J. Phys.: Conf. Ser.* 637 012027.
SJR Cites/doc (2015): 0.326
80. **I Valais**, C Michail, D Nikolopoulos, C Fountzoula, A Bakas, P Yannakopoulos, G Fountos, G Panayiotakis and I Kandarakis, [Effect of the Concentration on the X-ray Luminescence Efficiency of a Cadmium Selenide/Zinc Sulfide \(CdSe/ZnS\) Quantum Dot Nanoparticle Solution](#), (2015) *J. Phys.: Conf. Ser.* 637 012031.
SJR Cites/doc (2015): 0.326
81. S. David, C. Michail, I. Seferis, **I. Valais**, G. Fountos, P. Liaparinos, I. Kandarakis and N. Kalyvas, [Evaluation of Gd₂O₂S:Pr granular phosphor properties for X-ray mammography imaging](#), (2016) *J Lumin.* 169:706-710.
IF (2016): 2.693
82. Ioannis E. Seferis, J. Zeler, C. Michail, **I. Valais**, G. Fountos, N. Kalyvas, A. Bakas, I. Kandarakis, E. Zych, [On the response of semitransparent nanoparticulated films of LuPO₄:Eu in polyenergetic X-ray imaging applications](#) (2016) *Appl Phys A* 122:526
IF (2016): 1.444
83. C. Michail, **I. Valais**, N.Martini, V.Koukou, N. Kalyvas, A. Bakas, I. Kandarakis and G. Fountos, [Determination of the Detective Quantum Efficiency \(DQE\) of CMOS/CsI Imaging Detectors following the novel IEC 62220-1-1:2015 International Standard](#) (2016) *Radiat Meas.* 94:8-17.
IF (2016): 1.071
84. D. Nikolopoulos, **I. Valais**, C. Michail, A. Bakas, C. Fountzoula, D. Cantzos, D. Bhattacharyya, I. Sianoudis, G. Fountos, P. Yannakopoulos, G. Panayiotakis and I. Kandarakis, [Radioluminescence properties of the CdSe/ZnS Quantum Dot nanocrystals with analysis of long-memory trends](#). (2016). *Radiat Meas.* 92:19-31.
IF (2016): 1.071
85. C. M. Michail, G. E. Karpetas, G. P. Fountos, N. I. Kalyvas, **I. G. Valais**, C. Fountzoula, A. Zanglis, I. S. Kandarakis, G. S. Panayiotakis (2016) [A novel method for the Optimization of Positron Emission Tomography Scanners Imaging Performance](#), *Hell J Nucl Med.* 19(3):231-240.
IF (2016): 1.015
86. I. E. Seferis, J. Zeler, C. Michail, S. David, **I. Valais**, G. Fountos, N. Kalyvas, A. Bakas, I. Kandarakis, E. Zych, G. S. Panayiotakis (2017) [Grains size and shape dependence of light efficiency of Lu₂O₃:Eu thin screens](#), *Result. Phys.* 7:980-981.
IF (2015): 1.337
87. George E. Karpetas, Christos M. Michail, George P. Fountos, Nektarios I. Kalyvas, **Ioannis G. Valais**, Ioannis S. Kandarakis and George S. Panayiotakis (2017) [Detective Quantum Efficiency \(DQE\) in PET Scanners: A Simulation Study](#) *Appl. Radiat. Isot.* 125:154-162.
IF (2016): 1.136
88. **Ioannis Valais**, C. Michail, C. Fountzoula, D. Tseles, P. Yannakopoulos, D. Nikolopoulos, A. Bakas, G. Fountos, G. Saatsakis, I. Sianoudis, I. Kandarakis and G Panayiotakis. On the response of alloyed ZnCdSeS Quantum Dot films, *Res. Phys.*, 7: 1734-36, 2017, doi: <http://dx.doi.org/10.1016/j.rinp.2017.05.011>

IF (2015): 1.337

89. Kapetanakis I., G. Fountos, C. Michail, I. Valais, N. Kalyvas. 3D printing X-Ray Quality Control Phantoms. A Low Contrast Paradigm, IOP Conf. Series: Journal of Physics: Conf. Series 931 (2017) 012026, <http://iopscience.iop.org/article/10.1088/1742-6596/931/1/012026/pdf>
RG Journal Impact (2015): 0.45
90. V. Koukou, N. Martini, I. Valais, A. Bakas, N. Kalyvas, E. Lavdas, G. Fountos, I. Kandarakis and C. Michail. Resolution Properties of a Calcium Tungstate (CaWO_4) Screen Coupled to a CMOS Imaging Detector, IOP Conf. Series: Journal of Physics: Conf. Series 931 (2017) 012027, <http://iopscience.iop.org/article/10.1088/1742-6596/931/1/012027/pdf>
RG Journal Impact (2015): 0.45
91. A Dezi, E Monachesi, M D'Ignazio, L Scalise, L Montalto, N Paone, D Rinaldi, P Mengucci G Loudos, A Bakas, C Michail, I Valais, C Fountzoula, G Fountos and S David. Structural Characterization and Absolute Luminescence Efficiency Evaluation of $\text{Gd}_2\text{O}_2\text{S}$ High Packing Density Ceramic Screens Doped with Tb^{3+} and Eu^{3+} for further Applications in Radiology, IOP Conf. Series: Journal of Physics: Conf. Series 931 (2017) 012029, <http://iopscience.iop.org/article/10.1088/1742-6596/931/1/012029/pdf>
RG Journal Impact (2015): 0.45
92. G. Saatsakis, I. Valais, C. Michail, C. Fountzoula, G. Fountos, V. Koukou, N. Martini, N. Kalyvas, A. Bakas, I. Sianoudis, I. Kandarakis and G.S. Panayiotakis, Preliminary Study of ZnS:Mn^{2+} Quantum Dots Response Under UV and X-Ray Irradiation. IOP Conf. Series: Journal of Physics: Conf. Series 931 (2017) 012030, <http://iopscience.iop.org/article/10.1088/1742-6596/931/1/012030/pdf>
RG Journal Impact (2015): 0.45
93. Ioannis E. Seferis, C. Michail, J. Zeler, I. Valais, G. Fountos, N. Kalyvas, A. Bakas, I. Kandarakis, E. Zych, G. S. Panayiotakis, X-ray imaging resolution of phosphor screens prepared with different grains size and shape of granular $\text{Lu}_2\text{O}_3:\text{Eu}$ IOP Conf. Series: Journal of Physics: Conf. Series 931 (2017) 012032, <http://iopscience.iop.org/article/10.1088/1742-6596/931/1/012032/pdf>
RG Journal Impact (2015): 0.45
94. Ioannis Valais, C. Michail, C. Fountzoula, G. Fountos, G. Saatsakis, A. Karabotsos, G.S. Panayiotakis and I. Kandarakis, Polymer Based Thin Film Screen Preparation Technique, IOP Conf. Series: Journal of Physics: Conf. Series 931 (2017) 012035, <http://iopscience.iop.org/article/10.1088/1742-6596/931/1/012035/pdf>
RG Journal Impact (2015): 0.45
95. Anastasiou A., C. Michail, V. Koukou, N. Martini, A. Bakas, F. Papastamati, P. Maragkaki, L. Lavdas, G. Fountos, I. Valais, N. Kalyvas, Examining the Spatial Frequency Components of a Digital Dental Detector, IOP Conf. Series: Journal of Physics: Conf. Series 931 (2017) 012005, <http://iopscience.iop.org/article/10.1088/1742-6596/931/1/012005/pdf>
RG Journal Impact (2015): 0.45
96. C. Michail, I. Valais, G. Fountos, A. Bakas, C. Fountzoula, N. Kalyvas, A. Karabotsos, I. Sianoudis and I. Kandarakis, Luminescence Efficiency of Calcium Tungstate (CaWO_4) under X-ray radiation: Comparison with GdS:Tb , *Measurement* 120 (2018), pp 213-220, <https://doi.org/10.1016/j.measurement.2018.02.027>
IF (2016): 2.359
97. I. E. Seferis, C. Michail, J. Zeler, N. Kalyvas, I. Valais, G. Fountos, A. Bakas, I. Kandarakis, G. S. Panayiotakis, E. Zych, Detective quantum efficiency (DQE) of high X-ray absorption $\text{Lu}_2\text{O}_3:\text{Eu}$ thin screens: the role of shape and size of nano- and micro-grains, *Applied Physics A* (2018) 124:604, <https://doi.org/10.1007/s00339-018-2034-2>
IF (2016): 1.444
98. N. Martini, V. Koukou, G. Fountos, I. Valais, A. Bakas, K. Ninos, I. Kandarakis and C. Michail, Towards the enhancement of medical imaging with non-destructive testing (NDT) CMOS sensors. Evaluation following IEC 62220-1-1:2015 international standard, *Procedia Structural Integrity* 10 (2018) 326–332, 10.1016/j.prostr.2018.09.045
SJR Cites/doc (2017): 0.783
99. C. M. Michail, G.E. Karpetas, N. I. Kalyvas, I. G. Valais, I. S. Kandarakis, K. N. Agavanakis, G. S. Panayiotakis and G.P. Fountos. Information Capacity of Positron Emission Tomography Scanners, *Crystals* 2018, 8, 459; doi:10.3390/cryst8120459
IF (2018): 2.144
100. C. M. Michail, K. N. Agavanakis, G.E. Karpetas, N. I. Kalyvas, I. G. Valais, I. S. Kandarakis, G. S. Panayiotakis and G.P. Fountos. Information Content in Nuclear Medicine Imaging, *Energy Procedia* 157 (2019) 1517–1524 <https://doi.org/10.1016/j.egypro.2018.11.317>
IF (2017): 0.91

INTERNATIONAL CONGRESSES

- 1) Hornberger C., Knoop P., Nahm W., Konecny E., Langer D., Sauer N., Gehring H., Bonk R., Frankenberger H., Meyfroid G., Gil-Rodriguez J., Wouters P, Ponz L., Benekos K., **Valais J.**, Avgerinos J., and Ikiades A. A New Concept for a Pulse Oximeter Calibrator. Congress of the American Society of Anesthesiologists ASA, 20.10.98 (abstract).
- 2) Hornberger C., Knoop P., Nahm W., Konecny E., Langer D., Sauer N., Gehring H., Bonk R., Frankenberger H., Meyfroid G., Gil-Rodriguez J., Wouters P, Ponz L., Benekos K., **Valais J.**, Avgerinos J., and Ikiades A. A New Concept for Pulse Oximeter Calibrator. 10th European Congress of Anaesthesiologists ECA, PP-E460.32, Abstracts 1998.
- 3) E. Moravidis, T. Spyridonidis, G. Arsos, **I. Valais**, P. Tsiklas, W. Martin. Quantitative TL-201 Gated Spect. European Journal of Nuclear Medicine, Vol .27, No. 8, PS. 46, August 2000, pp1022.
- 4) V. Voliotopoulos, G. S. Limouris, A. Stavraka, I. Ioanovits, D.T. Soutsos, **I. Valais**, L. Kokoves, L. Vlachos. The Use of Preoperative Lymphoscintigraphy and Intraoperative Gamma Probe Guidance in the Diagnosis Sentinel Lymph Node in Malignant Melanoma. Nuclear Oncology Congress, Capri, Italy, 3-4 April 2000.
- 5) V. Voliotopoulos, G. S. Limouris, F. Scopinaro, O. Schillaci, **I. Valais**, A. Stavraka. The Use of Technetium-99m Human Immunoglobulin (HIG) in the Scintigraphic Detection of Bone Infections. European Radiology, Suppl.1, Vol.10 (10-076), SS605,449, 2000, European Congress of Radiology (ECR2000), Vienna, Austria, 5-10 March 2000.
- 6) V. Voliotopoulos, G. S. Limouris, **I. Valais**, L. Vlachos, A. Stavraka-Kakavaki. The Use of Technetium-99m Human Immunoglobulin (HIG) in the Scintigraphic Detection of Bone Infections.Oral Presentation. First Egyptian International Nuclear Medicine Meeting, Hurghada 25-27 Feb. 2000.
- 7) V. Voliotopoulos, A. Stavraka-Kakavaki, **I. Valais**, I. Ioannovits, L. Vlachos, G.S. Limouris. Sentinel Node Imaging Oral Presentation. First Egyptian International Nuclear Medicine Meeting, Hurghada 25-27 Feb. 2000.
- 8) M. Roussou, E. Nirgianaki, **I. Valais**, D. Linardatos, D. Margetis, D. Nikolopoulos, A. Episkopakis, P. Mellisaropoulos, I. Sianoudis, N. Dimitropoulos, C.D. Nomicos,G.S. Panayiotakis, D. Cavouras and I. Kandarakis. Evaluation of $Y_3Al_5O_{12}:Ce$ (YAG:Ce) Powder Phosphor as X-Ray to Light Converter for Application in Digital Mammography Detectors. Oral Presentation. II Mediterranean Conference on Medical Physics (EFOMP), Limassol, Cyprus 28-30 Apr. 2004.
- 9) A. Episkopakis, **I. Valais**, M. Roussou, E. Nirgianaki, D. Nikolopoulos, I. Sianoudis, K. Kourkoutas, N. Dimitropoulos, D. Cavouras, C.D. Nomicos and G.S. Panayiotakis. Modeling MTF and DQE of Rare Earth Phosphors for Medical Imaging Applications. Oral Presentation. II Mediterranean Conference on Medical Physics (EFOMP), Limassol, Cyprus 28-30 Apr. 2004.
- 10) D. Nilokopoulos, P. Liaparinos, D. Cavouras, A. Louizi, **I. Valais** ,G. Panayiotakis, C. Nomikos and I. Kandarakis. Computational Evaluation of Radiation Detection Efficiency of Various Scintillators by the Monte-Carlo Technique. Oral Presentation. II Mediterranean Conference on Medical Physics (EFOMP), Limassol, Cyprus 28-30 Apr. 2004.
- 11) **I. Valais**, I. Kandarakis, M. Rousou, E. Nirgianaki, D. Nikolopoulos, A. Episkopakis, I. Sianoudis, C.D. Nomicos, N. Kalivas and G.S. Panayiotakis. Evaluating the Luminescence of $Gd_2SiO_5:Ce$ (GSO(Ce)) Single Crystal Scintillator for Medical Imaging Applications Using Absolute Integrating Sphere (AIS) Method. Oral Presentation. II Mediterranean Conference on Medical Physics (EFOMP), Limassol, Cyprus 28-30 Apr. 2004.
- 12) **I. Valais**, I. Kandarakis, D. Nikolopoulos, A. Episkopakis, I. Sianoudis, N. Dimitropoulos, D. Cavouras, C.D. Nomicos and G.S. Panayiotakis Experimental Investigation of Radiation Detection Characteristics of

GSO:Ce Crystal Scintillator. Oral-Poster Presentation. 4th European Symposium on Biomedical Engineering. Patra, Ellas 25-27 Jun 2004.

13) **I. Valais**, D. Nikolopoulos, I. Kandarakis, H. Delis, N. Dimitropoulos, D. Cavouras, C.D. Nomicos and G. Panayiotakis. Evaluation of Gd₂SiO₅:Ce (GSO(Ce)) Single Crystal Scintillator Under Diagnostic X-ray Excitation. Poster presentation. MEDICON 2004, 10th Mediterranean Conference of IFMBE, Naples, Italy 31/7-5/8 2004.

14) P. Liaparinos, I. Kandarakis, D. Cavouras, D. Nikolopoulos, **I. Valais** and G. S. Panayiotakis. Simulating the Emission Efficiency and Resolution Properties of Fluorescent Screens By Monte Carlo Methods. Poster Presentation in Medical Imaging Conference of 2004 IEEE NSS-MIC Conference, Rome 16-22 Oct, 2004.

15) **I. Valais**, I. Kandarakis, D. Nikolopoulos, I. Sianoudis, N. Dimitropoulos, D. Cavouras, C.D. Nomicos and G.S. Panayiotakis.: On the luminescence efficiency of Gd₂SiO₅:Ce scintillator under x-ray excitation. Poster Presentation in Medical Imaging Conference of 2004 IEEE NSS-MIC Conference, Rome 16-22 Oct, 2004.

16) P. Liaparinos, I. Kandarakis, D. Cavouras, **I. Valais** and G. Panayiotakis. Determination of the light parameters within phosphor screens using Mie theory. 1st International Conference on Experiments / Process / System Modelling / Simulation / Optimization, 6-9 July 2005, Athens.

17) **I. Valais**, I. Kandarakis, D. Nikolopoulos, G. Loudos, N. Giokaris, C. Karagiannis, A. Episkopakis, N. Dimitropoulos and G. Panayiotakis. Experimental determination of luminescence emission properties of LYSO:Ce and CsI:Tl single crystal scintillators under UV and x-ray exposures for use in medical imaging. 1st International Conference on Experiments / Process / System Modelling / Simulation / Optimization, 6-9 July 2005, Athens.

18) **I. Valais**, A. Konstantinidis, G. Salemis, D. Nikolopoulos, N. Dimitropoulos, G. Panayiotakis, and I. Kandarakis. Comparative evaluation of cerium doped Yttrium Aluminum Oxide (YAG, YAP) powder phosphor screens for medical imaging applications. 1st International Conference on Experiments / Process / System Modelling / Simulation / Optimization, 6-9 July 2005, Athens.

19) **I. Valais**, A. Konstantinidis, G. Salemis, D. Nikolopoulos, N. Dimitropoulos, G. Panayiotakis, D. Cavouras, and I. Kandarakis. Evaluation of cerium doped Yttrium Aluminum Oxide (YAG and YAP) powder scintillating screens for use in x-ray imaging. 14th International Conference of Medical Physics (IOMP), 14-17 Sept. 2005, Nuremberg, Germany.

20) **I. Valais**, I. Kandarakis, D. Nikolopoulos, G. Loudos, N. Giokaris, C. Karagiannis, A. Episkopakis, and G.S. Panayiotakis. Experimental determination of luminescence emission properties of CsI:Tl, Lu₂SiO₅:Ce (LYSO:Ce) and Gd₂SiO₅:Ce (GSO:Ce) single crystal scintillators under x-ray exposure for use in medical imaging. 14th International Conference of Medical Physics (IOMP), 14-17 Sept. 2005, Nuremberg, Germany.

21) I. Loukos, N. Kontodimopoulos, **I. Valais** and I. Avgerinos. Exploiting educational trends to evolve a laboratory sector of a biomedical engineering degree program. 2005 WSEAS International Conference on Engineering Education, 8-10 July 2005, Vouliagmeni, Athens, Greece.

22) **I. Valais**, I. Kandarakis, A. Konstantinidis, I. Sianoudis, D. Cavouras, N. Dimitropoulos, C. Nomicos and G. Panayiotakis. Evaluation of light emission efficiency of LYSO:Ce scintillator under x-ray excitation for possible applications in medical imaging. 3rd International Conference on Imaging Technologies in Biomedical Sciences (ITBS2005), 25-28 Sept. 2005, Milos Island, Greece.

23) **I. Valais**, I. Kandarakis, D. Nikolopoulos, I. Sianoudis, G. Loudos, N. Giokaris, K. Nikita, D. Cavouras, N. Dimitropoulos, C. D. Nomicos and G. S. Panayiotakis. Luminescence properties of LuYSiO₅:Ce, Gd₂SiO₅:Ce,

and CsI: Tl single crystal scintillators under x-ray excitation, for use in medical imaging systems. Poster Presentation in Medical Imaging Conference of 2005 IEEE NSS-MIC Conference, Puerto Rico 23-29 Oct, 2005.

24) **I. Valais**, D. Nikolopoulos, N. Kalivas, A. Gaitanis, G. Loudos, I. Sianoudis, N. Giokaris, D. Cavouras, N. Dimitropoulos, C. D. Nomicos, I. Kandarakis and G. S. Panayiotakis: A systematic study of the performance of the CsI:Tl single crystal scintillator under x-ray excitation, Poster Presentation. 1st European Conference on Molecular Imaging Technology (EUROmedim 2006), 9-12 May 2006, Marseille, France

25) S. David, C. Michail, **I. Valais**, D. Nikolopoulos, P. Liaparinos, N. Kalivas, N. Efthimiou, A. Toutountzis, G. Loudos, I. Sianoudis, D. Cavouras, C.D. Nomicos, I. Kandarakis: Efficiency of Lu₂SiO₅:Ce (LSO) powder phosphor as X-ray to light converter under mammographic imaging conditions, Poster Presentation. 1st European Conference on Molecular Imaging Technology (EUROmedim 2006), 9-12 May 2006, Marseille, France

26) N. Kalivas, A. Konstantinidis, **I. Valais**, D. Nikolopoulos, A. Gaitanis, S. David, C. Michail, G. Loudos, D. Cavouras, K. Kourkoutas, C.D. Nomicos, I. Kandarakis, G.S. Panayiotakis: Investigation of the effect of the scintillator material on the overall X-ray detection system performance by application of analytical models, Poster Presentation. 1st European Conference on Molecular Imaging Technology (EUROmedim 2006), 9-12 May 2006, Marseille, France.

27) C. Michail, S. David, P. Liaparinos, **I. Valais**, D. Nikolopoulos, N. Kalivas, A. Toutountzis, I. Sianoudis, D. Cavouras, N. Dimitropoulos, C.D. Nomicos, K. Kourkoutas, I. Kandarakis, G.S. Panayiotakis,: Evaluation of the imaging performance of LSO powder scintillator for use in X-ray mammography. Poster Presentation. 10th International Symposium on Radiation Physics (ISRP-10), 17-22 September, 2006, Coimbra, Portugal

28) **I. Valais**, S. David, C. Michail, D. Nikolopoulos, N. Kalivas, A. Toutountzis, I. Sianoudis, D. Cavouras, N. Dimitropoulos, C.D. Nomicos, I. Kandarakis, G.S. Panayiotakis: Comparative study of luminescence properties of LYSO and LuYAP single crystal scintillators for use in medical imaging. Poster Presentation. 10th International Symposium on Radiation Physics (ISRP-10), 17-22 September, 2006, Coimbra, Portugal.

29) C. Michail, S. David, **I. Valais**, D. Nikolopoulos, P. Liaparinos, A. Toutountzis, D. Cavouras, N. Dimitropoulos, C.D. Nomicos, I. Kandarakis, G.S. Panayiotakis: Determination of the radiation absorption and light emission properties of Lu₂SiO₅:Ce (LSO) powder phosphor using computational model and experimental techniques. Oral presentation. IC-SCCE 2006, Athens, Greece

30) **I. Valais**, S. David, C. Michail, D. Nikolopoulos, D. Vattis, I. Sianoudis, D. Cavouras, C.D. Nomicos, I. Kandarakis and G.S. Panayiotakis: Comparative study of luminescence properties of Lu₂SiO₅:Ce and YAlO₃:Ce single crystal scintillators for use in medical imaging. Poster and Oral presentation. 5th ESBME, 5-7 July, 2006, Patras, Greece.

31) **I. Valais**, D. Nikolopoulos, S. David, C. Michail, I. Sianoudis, D. Cavouras, C.D. Nomicos, G.S. Panayiotakis, I. Kandarakis: Investigation of the luminescence properties of the LYSO: Ce, LSO: Ce and GSO: Ce single crystal scintillators under low energy X-ray excitation for nuclear imaging applications. Oral Presentation. European Nuclear Medicine Symposium 2006, 30 Sept.- 4 Oct., 2006, Athens, Greece

32) D. Nikolopoulos, **I. Valais**, P. Gonias, N. Bertsekas, S. David, C. Michail, D. Cavouras, G.S. Panayiotakis, I. Kandarakis: Monte Carlo study of the Detection Efficiency of various scintillators for use in positron emission imaging (PET), Oral Presentation. European Nuclear Medicine Symposium 2006, 30 Sept.- 4 Oct., 2006, Athens, Greece.

- 33) V. Voliotopoulos, C. Antypas, A. Filou-Gioug, E. Pantelis, **I. Valais**, A. Stavrak-Kakavaki: Thyroid cancer radioiodine therapy using recombinant human TSH. Poster Presentation. European Nuclear Medicine Symposium 2006, 30 Sept.- 4 Oct., 2006, Athens, Greece.
- 34) V. Voliotopoulos, C. Antypas, E. Pantelis, A. Filou-Gioug, **I. Valais**, A. Stavrak-Kakavaki: Radioiodine kinetic after the administration of recombinant human TSH for thyroid cancer therapy. Poster Presentation. European Nuclear Medicine Symposium 2006, 30 Sept.- 4 Oct., 2006, Athens, Greece.
- 35) V. Voliotopoulos, C. Antypas, E. Pantelis, A. Filou-Gioug, **I. Valais**, A. Stavrak-Kakavaki: Association between Hashimoto thyroiditis and thyroid cancer. Poster Presentation. European Nuclear Medicine Symposium 2006, 30 Sept.- 4 Oct., 2006, Athens, Greece.
- 36) **I. Valais**, S. David, C. Michail, D. Nikolopoulos, N. Kalivas, A. Toutountzis, I. Sianoudis, D. Cavouras, N. Dimitropoulos, C.D. Nomicos, I. Kandarakis and G.S. Panayiotakis: 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. Poster Presentation, N30-152, 2006 IEEE Nuclear Science Symposium (NSS), 30 Oct.- 4 Nov. 2006, San Diego, California, USA.
- 37) S. David, C. Michail, **I. Valais**, D. Nikolopoulos, N. Kalivas, I. Kalatzis, A. Karatopis, D. Cavouras, G. S. Panayiotakis, I. Kandarakis : Luminescence Efficiency of $\text{Lu}_2\text{SiO}_5:\text{Ce}$ (LSO) Powder Scintillator for X-Ray Medical Radiography Applications. Poster Presentation, N30-148, 2006 IEEE Nuclear Science Symposium (NSS), 30 Oct.- 4 Nov. 2006, San Diego, California, USA.
- 38) **I. Valais**, D. Nikolopoulos, S. David, C. Michail, P. Liaparinis, I. Kandarakis and G. S. Panayiotakis: Investigation of luminescent properties of LSO:Ce, LYSO:Ce and GSO:Ce crystal scintillators under low energy X-ray excitation used in nuclear imaging. Poster Presentation, PB45, 2007 11th Vienna Conference on Instrumentation (VCI 2007), 19-24 Feb. 2007, Vienna, Austria.
- 39) V. Voliotopoulos, V. Gianakopoulos, **I. Valais** and I. Charalabidou : “False negative” results of Tg in patients with DTC (differentiated thyroid carcinoma). Poster Presentation, P342, European Congress of Endocrinology 2007 (ECE 2007), 28 Apr.-2 May 2007, Budapest, Hungary.
- 40) V. Voliotopoulos, V. Gianakopoulos and **I. Valais** : The incidence of Hashimoto’s thyroiditis in the differentiated thyroid carcinoma. Poster Presentation, P343, European Congress of Endocrinology 2007 (ECE 2007), 28 Apr.-2 May 2007, Budapest, Hungary.
- 41) V. Voliotopoulos, V. Gianakopoulos and **I. Valais** : Thyroid cancer radioiodine therapy using recombinant human TSH. Poster Presentation, P344, European Congress of Endocrinology 2007 (ECE 2007), 28 Apr.-2 May 2007, Budapest, Hungary.
- 42) **I. Valais**, S. David, C. Michail, A. Konstantinidis, D. Cavouras, C. D. Nomicos, G. S. Panayiotakis and I. Kandarakis. “Comparative investigation of the luminescence properties of LYSO:Ce, LSO:Ce, GSO:Ce and BGO single crystal scintillators for use in x-ray imaging applications”. Oral presentation, 2nd International Conference on Experiments/Process/System Modelling/Simulation & Optimization (2nd IC-EpsMsO) Athens, 4-7 July, 2007.
- 43) **I. Valais**, C. Michail, S. David, A. Konstantinidis, D. Cavouras, C. D. Nomicos, G. S. Panayiotakis and I. Kandarakis. “Comparative evaluation of scintillators under x-ray imaging conditions”. Poster presentation, 4th International Conference Imaging Technologies in Biomedical Sciences (ITBS-2007), Milos, 22-28 September, 2007.
- 44) N. Kalivas, **I. Valais**, L. Costaridou, I. Kandarakis, D. Cavouras, G.S. Panayiotakis. “Evaluating optical spectral matching of phosphor-photodetector combinations”. Poster presentation, 4th International Conference Imaging Technologies in Biomedical Sciences (ITBS-2007), Milos, 22-28 September, 2007.

- 45) A. Petropoulou, N. Kalivas, I. Kandarakis, **I. Valais** and G.S. Panayiotakis. “A theoretical model for single-crystal scintillators in the diagnostic energy range”. Poster presentation, 4th International Conference Imaging Technologies in Biomedical Sciences (ITBS-2007), Milos, 22-28 September, 2007.
- 46) V. Spyropoulou, C. Michail, I. Kandarakis, **I. Valais**, N. Dimitropoulos, G.S. Panayiotakis. “The influence of software filtering in digital mammography image quality”. Poster presentation, 4th International Conference Imaging Technologies in Biomedical Sciences (ITBS-2007), Milos, 22-28 September, 2007.
- 47) **I. Valais**, S. David, C. Michail, A. Konstantinidis, D. Cavouras, C. D. Nomicos, G. S. Panayiotakis and I. Kandarakis. “A Comparative study of the luminescence properties of LYSO:Ce, LSO:Ce, GSO:Ce and BGO single crystal scintillators for use in medical x-ray imaging”. Poster presentation, 10th EFOMP Congress-First European Conference on Medical Physics, Il Ciocco-Castelvecchio Pascoli (LU), Pisa, Italy, 20-22 Sept. 2007.
- 48) C. Michail, S. David, A. Toutountzis, N. Kalivas, **I. Valais**, I. Kandarakis and G. S. Panayiotakis. “Theoretical and Experimental Investigation of the Detective Quantum Efficiency (DQE) of LSO:Ce powder scintillator for X-ray Mammography Applications”. Poster presentation, 10th EFOMP Congress-First European Conference on Medical Physics, Il Ciocco-Castelvecchio Pascoli (LU), Pisa, Italy, 20-22 Sept. 2007.
- 49) V. Voliotopoulos, **I. Valais**, M. Margaritaki, V. Gianakopoulos. “Coexistence of Thyroid Carcinoma and Hyperthyroidism”. Poster presentation, European Nuclear Medicine Symposium 2007, 13 - 17 October., 2007, Copenhagen, Denmark.
- 50) **I. Valais**, S. David, C. Michail, G. Fountos, T. Paschalis, G.S. Panayiotakis and I. Kandarakis. “Investigation of the performance of Ce³⁺ doped single crystal scintillators covering radiotherapy and PET/CT imaging conditions”. Oral presentation, 2008 IEEE International Workshop on Imaging Systems and Techniques (IST), Chania, Crete, Greece, 10-12 Sept. 2008.
- 51) C. Michail, G. Fountos, S. David, A. Toutountzis, **I. Valais**, N. Kalivas, I. Kandarakis and G.S. Panayiotakis, “A comparative investigation of Lu₂SiO₅:Ce and Gd₂O₂S:Eu phosphor scintillators for use in a medical imaging detectors”. Oral presentation, 2008 IEEE International Workshop on Imaging Systems and Techniques (IST), Chania, Crete, Greece, 10-12 Sept. 2008.
- 52) **I. Valais**, C. Michail, S. David, A. Toutountzis, G. Foundos, I. Kandarakis and G.S. Panayiotakis: “A Comparative Investigation of Ce³⁺ Doped Single Crystal Scintillators Covering Radiotherapy and PET/CT Imaging Conditions”. Poster presentation, M10-188, 2008 IEEE Medical Imaging Conference (MIC), 19-25 Oct. 2008, Dresden, Germany.
- 53) S. David, C. Michail, M. Roussou, E. Nirgianaki, A. Toutountzis, N. Kalivas, I. Valais, G. Fountos, I. Kandarakis, G. Panayiotakis “Evaluation of the Luminescence Efficiency of YAG:Ce Powder Scintillating Screens for Use in Digital Mammography Detectors”. Poster presentation, M06-205 2008 IEEE Medical Imaging Conference (MIC), 19-25 Oct. 2008, Dresden, Germany.
- 54) V. Voliotopoulos, M. Margaritaki, V. Gianakopoulos, M. Lamprakos and **I. Valais**. “The use of recombinant Tsh in thyroid cancer iodine therapy in patients with Grave’s disease”. Poster presentation, 2009 SNM Annual Meeting, 13 - 17 June, 2009, Toronto, Canada.
- 55) **I. Valais**, P. Xydias. “Detectors for imaging in Radiation Therapy”. Invited Speech, 3rd International Conference on Experiments/Process/System Modelling/Simulation & Optimization (3rd IC-EpsMsO) Athens, 8-11 July, 2009.
- 56) S. L. David, C. M. Michail, **I. G. Valais**, I. Seferis, G. Varaboutis, S. Gatsos, A. E. Toutountzis, G. Fountos I. Kandarakis, G. Panayiotakis, “Luminescence Efficiency of fast Yttrium Aluminum Garnet phosphor screens for use in breast tomosynthesis detectors” Oral Presentation, 3rd International Conference on

Experiments/Process/System Modelling/Simulation & Optimization (3rd IC-EpsMsO) Athens, 8-11 July, 2009.

57) **I. Valais**, C. Michail, S. David, G. Fountos, C.L. Melcher, T. Paschalis, I. Kandarakis and G.S. Panayiotakis: "Evaluation of the co-doped LSO:Ce,Ca scintillator crystal for Nuclear Medicine imaging applications". Poster Walk Presentation, PW03, 2010 EANM Annual Congress, 9-13 Oct. 2010, Vienna, Austria.

58) S. David, C. Michail, G. Panagiotakis, **I. Valais**, G. Fountos, C. Nomicos and I. Kandarakis "Evaluation of the co-doped LSO:Ce,Ca scintillator crystal in the X-ray energy range from 50 to 140kVp for medical imaging applications", Emerging Radiation Detection Techniques Session, Oral Presentation, IEEE International Conference on Imaging Systems and Techniques (IST 2010), July 1-2, 2010, Thessaloniki, Greece

59) **I. Valais**, G. Fountos, C. Michail, I. Seferis, N. Kalyvas, A. Mytafidis, I. Kandarakis and G.S. Panayiotakis: "Thin Substrate Powder Scintillator Screens for use in Digital X-ray Medical Imaging Applications", Poster presentation, 12M-103 2011 IEEE Nuclear Science Symposium and Medical Imaging Conference (NSS-MIC), 23-29 Oct. 2011, Valencia, Spain.

60) N. I. Kalyvas, C. Michail, G. Fountos, **I. Valais**, P. Liaparinos, I. Seferis, V. Spyropoulou, A. Mytafidis, G. Panayiotakis, I. Kandarakis. "[Modeling Noise Properties of a High Resolution CMOS Detector for X-Ray Digital Mammography](#)", Poster presentation, M9S-79 2011 IEEE Nuclear Science Symposium and Medical Imaging Conference (NSS-MIC), 23-29 Oct. 2011, Valencia, Spain.

61) I. E. Seferis, N. I. Kalyvas, **I. G. Valais**, C. M. Michail, P. F. Liaparinos, G. P. Fountos, E. Zych, I. S. Kandarakis and G. S. Panayiotakis. "Light emission efficiency of Lu₂O₃:Eu nanophosphor scintillating screen under x-ray radiographic conditions", Poster Presentation, Poster session: Detectors 86683P, SPIE Medical Imaging 2013, February 9, 2013, Lake Buena Vista (Orlando Area), Florida, USA.

62) George. E. Karpetas, Christos M. Michail, George P. Fountos, Nektarios I. Kalyvas, Ioannis G. Valais, Ioannis S.Kandarakis and George S. Panayiotakis, the effect of the scintillating crystal on pet imaging, 2nd International Conference on BioMedical Instrumentation and related Engineering and Physical Sciences, 21 and 22 June 2013, Athens, Greece.

63) E. Seferis, C. M. Michail, I. G. Valais, G. P. Fountos, N. I. Kalyvas, F. Stromatia, G. Oikonomou, I.S. Kandarakis, G. S. Panayiotakis, Single index image quality evaluation of a high resolution cmos sensor coupled to GdS:Eu phosphor screens, 2nd International Conference on BioMedical Instrumentation and related Engineering and Physical Sciences, 21 and 22 June 2013, Athens, Greece.

64) I. E. Seferis, N. I. Kalyvas, I. G. Valais, C. M. Michail, P. F. Liaparinos, G. P. Fountos, E. Zych, I. S. Kandarakis and G. S. Panayiotakis, Lu₂O₃:Eu nanophosphor as a candidate for digital medical imaging 2nd International Conference on BioMedical Instrumentation and related Engineering and Physical Sciences, 21 and 22 June 2013, Athens, Greece.

65) V. Koukou, N. Martini, G. Fountos, P. Sotiropoulou, C. Michail, I. Valais, I. Kandarakis and G. Nikiforidis, Dual energy mammography x-ray spectra optimization for the microcalcification detection, 2nd International Conference on BioMedical Instrumentation and related Engineering and Physical Sciences, 21 and 22 June 2013, Athens, Greece.

66) N. Martini, V. Koukou, G. Fountos, P. Sotiropoulou, C. Michail, A. Bakas, I. Kandarakis and G. Nikiforidis, X-ray spectra optimization for the hydroxyapatite/collagen ratio determination - a new approach in osteoporosis diagnosis, 2nd International Conference on BioMedical Instrumentation and related Engineering and Physical Sciences, 21 and 22 June 2013, Athens, Greece.

67) P. Sotiropoulou, G. Fountos, N. Martini, V. Koukou, C. Michail, I. Valais, I. Kandarakis and G. Nikiforidis DualEnergy Inverse-Mapping Technique to Estimate Calcium-To-Phosphorous Mass Ratio in Bone Quality

Assessment, 2nd International Conference on BioMedical Instrumentation and related Engineering and Physical Sciences, 21 and 22 June 2013, Athens, Greece.

68) George Fountos, Nektarios Kalyvas, Christos Michail, Ioannis Seferis, Ioannis Valais, Niki Martini, Vaia Koukou, Panagiotis Liaparinos, Stratos David, Ioannis Kandarakis, George Nikiforidis and George Panayiotakis, Considering Image Quality Metrics Calculation by Free Software, 2nd International Conference on BioMedical Instrumentation and related Engineering and Physical Sciences, 21 and 22 June 2013, Athens, Greece.

69) I. Stathopoulos, P. Kortidis, C. Michail, G. Fountos and I. Valais, Quality Assurance Protocols on Diagnostic Ultrasound Equipment, 2nd International Conference on BioMedical Instrumentation and related Engineering and Physical Sciences, 21 and 22 June 2013, Athens, Greece.

70) Nektarios Kalyvas, Liaparinos Panagiotis, Valais Ioannis, Fountos George, Michail Christos, David Stratos and Kandarakis Ioannis, Scintillators in x-ray imaging: the miscirlu project, 2nd International Conference on BioMedical Instrumentation and related Engineering and Physical Sciences, 21 and 22 June 2013, Athens, Greece.

71) Nektarios Kalyvas, George Fountos, Ioannis Valais, Panayiotis Liaparinos, Christos Michail, Stratos David, Ioannis Kandarakis, Phosphor Material Activator Type and Image Quality: Trading off Resolution, Noise and Sensitivity, 2nd International Conference on BioMedical Instrumentation and related Engineering and Physical Sciences, 21 and 22 June 2013, Athens, Greece.

72) Chatzisavvas Nickolaos, Argyriou Xenophon, Sevvos Theodoros, Nikolopoulos Dimitrios, Valais Ioannis, Kalyvas Nektarios, Michail Christos, Kottou Sofia, Yannakopoulos Panayiotis, Kandarakis Ioannis, GATE simulation of the Biograph 2 PET/CT scanner, 2nd International Conference on BioMedical Instrumentation and related Engineering and Physical Sciences, 21 and 22 June 2013, Athens, Greece.

73) A. S. Skouroliakou, I. Sianoudis, I. Valais, I. Seferis, A. F. Fragopoulou, G. Mitsou, C. Michail, L.H. Margaritis, Infrared Thermography Imaging: Skin Temperature Variations Caused by Exposure to Non Ionizing Radiation, 2nd International Conference on BioMedical Instrumentation and related Engineering and Physical Sciences, 21 and 22 June 2013, Athens, Greece.

74) C. M. Michail, **I. G. Valais**, I. E. Seferis, F. Stromatia, E. Kounadi, G. P. Fountos and I. S. Kandarakis, Experimental Evaluation of a High Resolution CMOS Digital Imaging Detector Coupled to Structured CsI Scintillators for Medical Imaging Applications, XIII Mediterranean Conference on Medical and Biological Engineering and Computing - MEDICON 25-28 September Sevilla Spain 2013.

75) I. E. Seferis, S. L. David, C. M. Michail, A. Bakas, N. I. Kalivas, G. P. Fountos, G. S. Panayiotakis, K. Kourkoutas, I. S. Kandarakis and **I. G. Valais**, Light emission efficiency of Gd₃Al₂Ga₃O₁₂:Ce (GAGG:Ce) single crystal under X-ray radiographic conditions, XIII Mediterranean Conference on Medical and Biological Engineering and Computing - MEDICON 25-28 September Sevilla Spain 2013.

76) V. Koukou, N. Martini, G. Fountos, P. Sotiropoulou, C. Michail, **I. Valais**, E. Kounadi, I. Kandarakis and G. Nikiforidis, Calcification Detection Optimization in Dual Energy Mammography: Influence of the X-ray spectra, XIII Mediterranean Conference on Medical and Biological Engineering and Computing - MEDICON 25-28 September Sevilla Spain 2013.

77) P. Sotiropoulou, G. Fountos, N. Martini, V. Koukou, C. Michail, **I. Valais**, I. Kandarakis and G. Nikiforidis, X-ray spectra for bone quality assessment using energy dispersive counting and imaging detectors with dual energy method, XIII Mediterranean Conference on Medical and Biological Engineering and Computing - MEDICON 25-28 September Sevilla Spain 2013.

- 78) G Karpetas, C Michail, G Fountos, N Kalyvas, **I Valais**, I Kandarakis, G Panayiotakis, A Novel Method for the Image Quality assessment of PET Scanners by Monte Carlo simulations: Effect of the scintillator, International Conference on Mathematical Modeling in Physical Sciences September 1-5, 2013 Prague, Czech Republic.
- 79) N. Kalyvas, **I. Valais**, S. David, Ch. Michail, G. Fountos, P. Liaparinos, I. Kandarakis, Studying the energy dependence of intrinsic conversion efficiency of single crystal scintillators under x-ray excitation, XV Feofilov International Symposium, Kazan, Russia in 16-20 September 2013
- 80) D. Nikolopoulos, N. Chatzisavvas, **I. Valais**, C. Michail, X. Argyriou, T. Sevvos, N. Kalyvas, S. Kottou, P. Yannakopoulos, I. Kandarakis, GATE Simulation of the Biograph 2 PET/CT Scanner, ERA-8 The Conference for International Synergy in Energy, Environment, Tourism and contribution of Information Technology in Science, Economy, Society and Education, 23-25/9/2013, Technological Educational Institute of Piraeus.
- 81) I. E. Seferis, C. M. Michail, **I. G. Valais**, Panagiotis F. Liaparinos, Nektarios I. Kalyvas, G. P. Fountos, Eugeniusz Zych, I. S. Kandarakis, George Panayiotakis, Imaging performance of a thin Lu₂O₃:Eu nanophosphor scintillating screen coupled to a high resolution CMOS sensor under X-ray radiographic conditions: comparison with Gd₂O₂S:Eu conventional phosphor screen. Proc. SPIE 9033, Medical Imaging 2014: Physics of Medical Imaging, 9033W (February 15-20, 2014).
- 82) I. E. Seferis, C. M. Michail, J. Zeler, **I. G. Valais**, P. F. Liaparinos, N. I. Kalyvas, G. P. Fountos, A. Bakas, I. S. Kandarakis, E. Zych, X-ray efficiency of LuPO₄:Eu nanophosphor screens, 15th International Meeting on Chemical Sensors (IMCS), March 16-19 2014 Buenos Aires, Argentina.
- 83) N. Martini, V. Koukou, N. Kalyvas, P. Sotiropoulou, C. Michail, I. Valais, I. Kandarakis, G. Nikiforidis, G. Fountos, Modeling indirect detectors for performance optimization of a digital mammographic detector for dual energy applications, 3rd International Conference on Mathematical Modeling in Physical Sciences (IC-MSQUARE), August 28-31, 2014, Madrid, Spain, pp 463-466.
- 84) V. Koukou, G. Fountos, N. Martini, P. Sotiropoulou, C. Michail, N. Kalyvas, I. Valais, I. Kandarakis, G. Nikiforidis, Optimization of breast cancer detection in Dual Energy X-ray Mammography using a CMOS imaging detector, 3rd International Conference on Mathematical Modeling in Physical Sciences (IC-MSQUARE), August 28-31, 2014, Madrid, Spain
- 85) C. Michail, I. Seferis, **I. Valais**, V. Koukou, N. Kalyvas, A. Bakas, G. Fountos and I. Kandarakis, Imaging performance of a Gd₂O₂S:Pr,Ce,F scintillator coated CMOS imaging sensor, 8th European Conference on Medical Physics (ECMP2014), Athens, Greece, September 11-13, 2014.
- 86) D. Nikolopoulos, I. Valais, C. Michail, S. Kottou, N. Chatzisavvas, P. Yannakopoulos, V. Malaxianakis. Modelling Biograph 2 PET/CT Scanner with GATE, 8th European Conference on Medical Physics (ECMP2014), Athens, Greece, September 11-13, 2014.
- 87) I. E. Seferis, C. M. Michail, J. Zeler, I. G. Valais, T. Sideras, P. F. Liaparinos, N. I. Kalyvas, G. P. Fountos, A. Bakas, I. S. Kandarakis, E. Zych, X-ray Luminescence Efficiency and Detector Quantum Gain of LuPO₄:Eu nanophosphor, 8th European Conference on Medical Physics (ECMP2014), Athens, Greece, September 11-13, 2014.
- 88) N. Kalyvas, C. Michail, G. Fountos, I. Valais, I. Kandarakis, D. Cavouras, Investigating columnar scintillators through analytical modeling. A semiempirical approach, 8th European Conference on Medical Physics (ECMP2014), Athens, Greece, September 11-13, 2014.
- 89) D. Nikolopoulos, I. Valais, C. Michail, S. Kottou, N. Chatzisavvas, P. Yannakopoulos, V. Malaxianakis, Modelling Biograph 2 PET/CT Scanner with GATE, 8th European Conference on Medical Physics (ECMP2014), Athens, Greece, September 11-13, 2014.

90) A. Skouroliakou, I. Seferis, C. Michail, I. Sianoudis, D. Mathes, I. Valais, Thermographic blood flow variation relative to lower limb position, 8th European Conference on Medical Physics (ECMP2014), Athens, Greece, September 11-13, 2014.

91) Kalyvas N., Martini N., Koukou V., Michail C., Sotiropoulou P., Valais I., Kandarakis I., Fountos G., A theoretical investigation of spectra utilization for a CMOS based indirect detector for dual energy applications, 4th International Conference on Mathematical Modeling in Physical Sciences (IC-MSQUARE), June 5-8, 2015, Mykonos, Greece.

92) Michail C., Karpetas G., Fountos G., Kalyvas N., Martini N., Koukou V., Valais I., Kandarakis I., Medical Imaging Image Quality Assessment with Monte Carlo Methods. 4th International Conference on Mathematical Modeling in Physical Sciences (IC-MSQUARE), June 5-8, 2015, Mykonos, Greece.

ABSTRACTS IN INTRNATIONAL CONGRESSES

- 1) Hornberger C., Knoop P., Nahm W., Konecny E., Langer D., Sauer N., Gehring H., Bonk R., Frankenberger H., Meyfroid G., Gil-Rodriguez J., Wouters P, Ponz L., Benekos K., **Valais J.**, Avgerinos J., and Ikiades A. A New Concept for a Pulse Oximeter Calibrator. Congress of the American Society of Anesthesiologists ASA, Florida, Tampa, USA, 20.10.98.
- 2) Hornberger C., Knoop P., Nahm W., Konecny E., Langer D., Sauer N., Gehring H., Bonk R., Frankenberger H., Meyfroid G., Gil-Rodriguez J., Wouters P, Ponz L., Benekos K., **Valais J.**, Avgerinos J., and Ikiades A. A New Concept for Pulse Oximeter Calibrator. 10th European Congress of Anaesthesiologists ECA, PP-E460.32, Munich, Germany, September 1998.
- 3) E. Moravidis, T. Spyridonidis, G. Arsos, I. **Valais**, P. Tsiklas, W. Martin. Quantitative TL-201 Gated Spect. European Congress of Nuclear Medicine, Vol .27, No. 8, PS. 46, Paris, France, August 2000, PS_46, pp1022
- 4) V. Voliotopoulos, G. S. Limouris, A. Stavraka, I. Ioanovits, D.T. Soutsos, I. **Valais**, L. Kokoves, L. Vlachos. The Use of Preoperative Lymphoscintigraphy and Intraoperative Gamma Probe Guidance in the Diagnosis Sentinel Lymph Node in Malignant Melanoma. Nuclear Oncology Congress, Capri, Italy, 3-4 April 2000.
- 5) V. Voliotopoulos, G. S. Limouris, F. Scopinaro, O. Schillaci, I. **Valais**, A. Stavraka. The Use of Technetium-99m Human Immunoglobulin (HIG) in the Scintigraphic Detection of Bone Infections. European Radiology, Suppl.1, Vol.10 (10-076), SS605,449, 2000, European Congress of Radiology (ECR2000), Vienna, Austria, 5-10 March 2000.
- 6) V. Voliotopoulos, G. S. Limouris, I. **Valais**, L. Vlachos, A. Stavraka-Kakavaki. The Use of Technetium-99m Human Immunoglobulin (HIG) in the Scintigraphic Detection of Bone Infections.Oral Presentation. First Egyptian International Nuclear Medicine Meeting, Hurghada 25-27 Feb. 2000.
- 7) V. Voliotopoulos, A. Stavraka-Kakavaki, I. **Valais**, I. Ioannovits, L. Vlachos, G.S. Limouris. Sentinel Node Imaging Oral Presentation. First Egyptian International Nuclear Medicine Meeting, Hurghada 25-27 Feb. 2000.
- 1) I. **Valais**, D. Nikolopoulos, N. Kalivas, A. Gaitanis, G. Loudos, I. Sianoudis, N. Giokaris, D. Cavouras, N. Dimitropoulos, C. D. Nomicos, I. Kandarakis and G. S. Panayiotakis: A systematic study of the performance of the CsI:Tl single crystal scintillator under x-ray excitation, Poster Presentation. 1st European Conference on Molecular Imaging Technology (EUROmedim 2006), 9-12 May 2006, Marseille, France.
- 2) D. Nikolopoulos, D. Linardatos, I. **Valais**, C. Michail, S. David, P. Gonias, N. Bertsekas, D. Cavouras, A. Louizi, I. Kandarakis: Monte Carlo validation in the diagnostic radiology range. 1st European Conference on Molecular Imaging Technology (EUROmedim 2006), 9-12 May 2006, Marseille, France
- 3) S. David, C. Michail, I. **Valais**, D. Nikolopoulos, P. Liaparinis, N. Kalivas, I. Kalatzis, N. Efthimiou, A. Toutountzis, G. Loudos, I. Sianoudis, D. Cavouras, N. Dimitropoulos, C.D. Nomicos, I. Kandarakis and G.S. Panayiotakis, "Efficiency of Lu₂SiO₅:Ce (LSO) powder phosphor as X-ray to light converter under mammographic imaging conditions", Euromedim 2006: 1st European Conference on Molecular Imaging Technology, Marseille, France, 9-12 May 2006, [doi:10.1016/j.nima.2006.10.106](https://doi.org/10.1016/j.nima.2006.10.106).
- 8) N. Efthimiou, N. Kalivas, G. Patatoukas, I. **Valais**, D. Nikolopoulos, A. Gaitanis, A. Konstaninidis, S. David, C. Michail, G. Loudos, D. Cavouras, K. Kourkoutas, G.S. Panayiotakis and I. Kandarakis "Investigation of the effect of the scintillator material on the overall X-ray detection system performance by application of analytical models", Euromedim 2006: 1st European Conference on Molecular Imaging Technology, Marseille, France, 9-12 May 2006, [doi:10.1016/j.nima.2006.10.080](https://doi.org/10.1016/j.nima.2006.10.080).
- 9) I. **Valais**, D. Nikolopoulos, S. David, C. **Michail**, I. Sianoudis, D. Cavouras, C. D. Nomicos, G.S. Panayiotakis, I. Kandarakis Investigation of the luminescence properties of the LYSO:Ce, LSO:Ce and GSO:Ce single crystal

scintillators under low energy X -ray excitation for nuclear imaging applications Annual Congress of the European Association of Nuclear Medicine EANM'06 Athens/Greece September 30 - October 4, **2006**.

- 10) D. Nikolopoulos, I. **Valais**, P.Gonias, N. Bertsekas, S. David, **C. Michail**, D. Cavouras, G.S. Panayiotakis, I. Kandarakis Monte Carlo study of the Detection Efficiency of various scintillators for use in positron emission imaging (PET) Annual Congress of the European Association of Nuclear Medicine EANM'06 Athens/Greece September 30 - October 4, **2006**.
- 11) V. Voliotopoulos, C. Antypas, A. Filou-Gioug, E. Pantelis, I. **Valais**, A. Stavraka-Kakavaki: Thyroid cancer radioiodine therapy using recombinant human TSH. Poster Presentation. European Nuclear Medicine Symposium 2006 (EANM'06), 30 Sept.- 4 Oct., 2006, Athens, Greece.
- 12) V. Voliotopoulos, C. Antypas, E. Pantelis, A. Filou-Gioug, I. **Valais**, A. Stavraka-Kakavaki: Radioiodine kinetic after the administration of recombinant human TSH for thyroid cancer therapy. Poster Presentation. European Nuclear Medicine Symposium 2006 (EANM'06), 30 Sept.- 4 Oct., 2006, Athens, Greece.
- 12) V. Voliotopoulos, C. Antypas, E. Pantelis, A. Filou-Gioug, I. **Valais**, A. Stavraka-Kakavaki: Association between Hashimoto thyroiditis and thyroid cancer. Poster Presentation. European Nuclear Medicine Symposium 2006 (EANM'06), 30 Sept.- 4 Oct., 2006, Athens, Greece
- 13) V. Voliotopoulos, V. Gianakopoulos, I. **Valais** and I. Charalabidou : “False negative” results of Tg in patients with DTC (differentiated thyroid carcinoma). Poster Presentation, P342, European Congress of Endocrinology 2007 (ECE 2007), 28 Apr.-2 May 2007, Budapest, Hungary.
- 14) V. Voliotopoulos, V. Gianakopoulos and I. **Valais** : The incidence of Hashimoto’s thyroiditis in the differentiated thyroid carcinoma. Poster Presentation, P343, European Congress of Endocrinology 2007 (ECE 2007), 28 Apr.-2 May 2007, Budapest, Hungary.
- 15) V. Voliotopoulos, V. Gianakopoulos and I. **Valais** : Thyroid cancer radioiodine therapy using recombinant human TSH. Poster Presentation, P344, European Congress of Endocrinology 2007 (ECE 2007), 28 Apr.-2 May 2007, Budapest, Hungary
- 16) V. Voliotopoulos, I. **Valais**, M. Margaritaki, V. Gianakopoulos. “Coexistence of Thyroid Carcinoma and Hyperthyroidism”. Poster presentation, European Nuclear Medicine Symposium (EANM) 2007, 13 - 17 October., 2007, Copenhagen, Denmark.
- 17) I. G. **Valais**, C. Michail, S. David, A. Konstantinidis, D. Cavouras, C. D. Nomicos, G. S. Panayiotakis and I. S. Kandarakis, [Comparative evaluation of scintillators under xray imaging conditions](#), 4th International Conference on Imaging Technologies in Biomedical Sciences (ITBS-2007), Milos, 22-28 September, 2007, *From Medical Images to Clinical Information Bridging the Gap* 22-28 September 2007, Conference Center *George Eliopoulos* Milos Island, Greece.
- 18) N. Kalivas, I. **Valais**, L. Costaridou, I. Kandarakis, D. Cavouras, G.S. Panayiotakis. [“Evaluating optical spectral matching of phosphor-photodetector combinations”](#). Poster presentation, 4th International Conference Imaging Technologies in Biomedical Sciences (ITBS-2007), Milos, 22-28 September, 2007.
- 19) A. Petropoulou, N. Kalivas, I. Kandarakis, I. **Valais** and G.S. Panayiotakis. [“A theoretical model for single-crystal scintillators in the diagnostic energy range”](#). Poster presentation, 4th International Conference Imaging Technologies in Biomedical Sciences (ITBS-2007), Milos, 22-28 September, 2007.
- 20) V. Spyropoulou, C. Michail, I. Kandarakis, I. **Valais**, N. Dimitropoulos, G. Panayiotakis, [The influence of software filtering in digital mammography image quality](#) 4th International Conference on Imaging Technologies in Biomedical Sciences *From Medical Images to Clinical Information Bridging the Gap* 22-28 September 2007, Conference Center *George Eliopoulos* Milos Island, Greece.
- 21) V. Spyropoulou, N. Kalyvas, A. Gaitanis, C. **Michail**, G. Panayiotakis, I. Kandarakis (2009) [Modelling the imaging performance and low contrast detectability in digital mammography](#) 4th International Conference on Imaging Technologies in Biomedical Sciences *From Medical Images to Clinical Information Bridging the Gap* 22-28 September 2007, Conference Center *George Eliopoulos* Milos Island, Greece.
- 22) I. **Valais**, S. David, C. Michail, A. Konstantinidis, I. Kandarakis, G. Panayiotakis, Investigation of Luminescent Properties of LSO:Ce, LYSO:Ce and GSO:Ce Crystal Scintillators Under Low Energy X -ray Excitation Used in Nuclear Imaging, 11th Vienna Conference on Instrumentation - VCI **2007** February 19-24 2007 PB 45, [doi:10.1016/j.nima.2007.07.037](https://doi.org/10.1016/j.nima.2007.07.037).
- 23) C. Michail, S. David, A. Toutounzis, N. Kalivas, I. **Valais**, G. Panayiotakis, I. Kandarakis [Theoretical and Experimental Investigation of the Detective Quantum Efficiency \(DQE\) of LSO:Ce Powder Scintillator for X-Ray Mammography Applications](#) Xth EFOMP European Federation of Organisations for Medical Physics Pisa, Italy 20-22/9/2007, **P3-18**.
- 24) I. **Valais**, C. Michail, S. David, A. Konstantinidis, D. Cavouras, C. Nomicos, G. Panayiotakis, I. Kandarakis [Luminescence Efficiency of LYSO:Ce, LSO:Ce, GSO:Ce and BGO Single Crystal Scintillators under X-Ray Imaging Conditions](#) Xth EFOMP European Federation of Organisations for Medical Physics Pisa, Italy 20-22, 09-2007, **P3-19**.

- 25) V. Voliotopoulos, M. Margaritaki, V. Gianakopoulos, M. Lamprakos and I. **Valais**. "The use of recombinant Tsh in thyroid cancer iodine therapy in patients with Grave's disease". Poster presentation, 2009 SNM Annual Meeting, 13 - 17 June, 2009, Toronto, Canada.
- 26) I. G. **Valais**, S. David, C. **Michail**, G. Fountos, T. Paschalis, C. L. Melcher, I. S. Kandarakis, G. S. Panayiotakis, Evaluation of the co-doped LSO:Ce,Ca scintillator crystal for Nuclear Medicine imaging applications. Annual Congress of the European Association of Nuclear Medicine (EANM), October 9-13 **2010**, Austria Center Vienna, PW 003.
- 27) George. E. Karpetas, Christos M. Michail, George P. Fountos, Nektarios I. Kalyvas, **Ioannis G. Valais**, Ioannis S. Kandarakis and George S. Panayiotakis, The effect of the scintillating crystal on pet imaging, [2nd Workshop on Bio-Medical Instrumentation and related Engineering And Physical Sciences](#), 21 and 22 June **2013**, Athens, Greece.
- 28) George. E. Karpetas, Christos M. Michail, George P. Fountos, Nektarios I. Kalyvas, **Ioannis G. Valais**, Ioannis S. Kandarakis and George S. Panayiotakis, the effect of iterative image reconstruction on pet imaging, [2nd Workshop on Bio-Medical Instrumentation and related Engineering And Physical Sciences](#), 21 and 22 June **2013**, Athens, Greece.
- 29) E. Seferis, C. M. Michail, **I. G. Valais**, G. P. Fountos, N. I. Kalyvas, F. Stromatia, G. Oikonomou, I.S. Kandarakis, G. S. Panayiotakis, Single index image quality evaluation of a high resolution cmos sensor coupled to Gd₂O₂S:Eu phosphor screens, [2nd Workshop on Bio-Medical Instrumentation and related Engineering And Physical Sciences](#), 21 and 22 June **2013**, Athens, Greece
- 30) I. E. Seferis, N. I. Kalyvas, **I. G. Valais**, C. M. Michail, P. F. Liaparinos, G. P. Fountos, E. Zych, I. S. Kandarakis and G. S. Panayiotakis, Lu₂O₃:Eu nanophosphor as a candidate for digital medical imaging applications, [2nd Workshop on Bio-Medical Instrumentation and related Engineering And Physical Sciences](#), 21 and 22 June **2013**, Athens, Greece.
- 31) V. Koukou, N. Martini, G. Fountos, P. Sotiropoulou, C. Michail, **I. Valais**, I. Kandarakis and G. Nikiforidis, Dual energy mammography x-ray spectra optimization for the microcalcification detection, [2nd Workshop on Bio-Medical Instrumentation and related Engineering And Physical Sciences](#), 21 and 22 June **2013**, Athens, Greece.
- 32) P. Sotiropoulou, G. Fountos, N. Martini, V. Koukou, C. Michail, **I. Valais**, I. Kandarakis and G. Nikiforidis Dual-Energy Inverse-Mapping Technique to Estimate Calcium-To-Phosphorous Mass Ratio in Bone Quality Assessment, [2nd Workshop on Bio-Medical Instrumentation and related Engineering And Physical Sciences](#), 21 and 22 June **2013**, Athens, Greece.
- 33) George Fountos, Nektarios Kalyvas, Christos Michail, Ioannis Seferis, **Ioannis Valais**, Niki Martini, Vaia Koukou, Panagiotis Liaparinos, Stratos David, Ioannis Kandarakis, George Nikiforidis and George Panayiotakis, Considering Image Quality Metrics Calculation by Free Software, [2nd Workshop on Bio-Medical Instrumentation and related Engineering And Physical Sciences](#), 21 and 22 June **2013**, Athens, Greece.
- 34) I. Stathopoulos, P. Kortidis, C. Michail, G. Fountos and I. **Valais**, Quality Assurance Protocols on Diagnostic Ultrasound Equipment, [2nd Workshop on Bio-Medical Instrumentation and related Engineering And Physical Sciences](#), 21 and 22 June **2013**, Athens, Greece.
- 35) Nektarios Kalyvas, Liaparinos Panagiotis, **Valais Ioannis**, Fountos George, Michail Christos, David Stratos and Kandarakis Ioannis, Scintillators in x-ray imaging: the miscirlu project, [2nd Workshop on Bio-Medical Instrumentation and related Engineering And Physical Sciences](#), 21 and 22 June **2013**, Athens, Greece.
- 36) Nektarios Kalyvas, George Fountos, **Ioannis Valais**, Panayiotis Liaparinos, Christos Michail, Stratos David, Ioannis Kandarakis, Phosphor Material Activator Type and Image Quality: Trading off Resolution, Noise and Sensitivity, [2nd Workshop on Bio-Medical Instrumentation and related Engineering And Physical Sciences](#), 21 and 22 June **2013**, Athens, Greece.
- 37) Chatzisavvas Nickolaos, Argyriou Xenophon, Sevvos Theodoros, Nikolopoulos Dimitrios, **Valais Ioannis**, Kalyvas Nektarios, Michail Christos, Kottou Sofia, Yannakopoulos Panayiotis, Kandarakis Ioannis, GATE simulation of the Biograph 2 PET/CT scanner, [2nd Workshop on Bio-Medical Instrumentation and related Engineering And Physical Sciences](#), 21 and 22 June **2013**, Athens, Greece.
- 38) A. S. Skouroliahou, I. Sianoudis, **I. Valais**, I. Seferis, A. F. Fragopoulou, G. Mitsou, C. Michail, L.H. Margaritis, Infrared Thermography Imaging: Skin Temperature Variations Caused by Exposure to Non Ionizing Radiation, [2nd Workshop on Bio-Medical Instrumentation and related Engineering And Physical Sciences](#), 21 and 22 June **2013**, Athens, Greece
- 39) S. Angelakis, G. Saatsakis, D. Prionas and **I. Valais**, Electrical Safety of Medical Equipment an Experimental Approach, [2nd Workshop on Bio-Medical Instrumentation and related Engineering And Physical Sciences](#), 21 and 22 June **2013**, Athens, Greece
- 40) E. Drakaki, G. Mitsou, N. Merlemis, I. Vamvakas, **I. Valais** and I. Sianoudis, The Techniques of Diffuse Reflectance Spectroscopy (Drs) and Laser Induced Fluorescence (LIF) Used For Investigations of Skin Lesions, [2nd Workshop on Bio-Medical Instrumentation and related Engineering And Physical Sciences](#), 21 and 22 June **2013**, Athens, Greece.
- 41) N. Kalyvas, I. **Valais**, S. David, Ch. Michail, G. Fountos, P. Liaparinos, I. Kandarakis, [Studying the energy dependence of intrinsic conversion efficiency of single crystal scintillators under x-ray excitation](#), XV Feofilov International Symposium, Kazan, Russia in 16-20 September **2013**.
- 42) I. E. Seferis, C. M. Michail, J. Zeler, I. G. **Valais**, P. F. Liaparinos, N. I. Kalyvas, G. P. Fountos, A. Bakas, I. S. Kandarakis, E. Zych, [X-ray efficiency of LuPO₄:Eu nanophosphor screens](#), 15th International Meeting on Chemical

- Sensors (IMCS), March 16-19 **2014** Buenos Aires, Argentina, 15th International Meeting on Chemical Sensors (IMCS), March 16-19 **2014** Buenos Aires, Argentina.
- 43) Ioannis Karachalios, Dimitrios Mathes, **Ioannis Valais**, Georgios Mitsou and Ioannis Sianoudis, [Developing A Timing Control System For Laser Induced Fluorescence \(LIF\) In Medical Applications](#), 18th International School on Quantum Electronics (ISQE2014), “Laser physics and applications” 29 September – 3 October 2014, Sozopol, Bulgaria
 - 44) C. Michail, I. Seferis, I. **Valais**, V. Koukou, N. Kalyvas, A. Bakas, G. Fountos and I. Kandarakis, [Imaging performance of a Gd₂O₂S:Pr,Ce,F scintillator coated CMOS imaging sensor](#), 8th European Conference on Medical Physics (ECMP2014), Athens, Greece, September 11-13, **2014**.
 - 45) I. E. Seferis, C. M. Michail, J. Zeler, **I. G. Valais**, T. Sideras, P. F. Liaparinos, N. I. Kalyvas, G. P. Fountos, A. Bakas, I. S. Kandarakis, E. Zych, [X-ray Luminescence Efficiency and Detector Quantum Gain of LuPO₄:Eu nanophosphor](#), 8th European Conference on Medical Physics (ECMP2014), Athens, Greece, September 11-13, **2014**.
 - 46) N. Kalyvas, C. Michail, G. Fountos, **I. Valais**, I. Kandarakis, D. Cavouras, [Investigating columnar scintillators through analytical modeling. A semiempirical approach](#), 8th European Conference on Medical Physics (ECMP2014), Athens, Greece, September 11-13, **2014**.
 - 47) D. Nikolopoulos, **I. Valais**, C. Michail, S. Kottou, N. Chatzisavvas, P. Yannakopoulos, V. Malaxianakis, [Modelling Biograph 2 PET/CT Scanner with GATE](#), 8th European Conference on Medical Physics (ECMP2014), Athens, Greece, September 11-13, **2014**.
 - 48) A. Skouroliakou, I. Seferis, C. Michail, I. Sianoudis, D. Mathes, **I. Valais**, [Thermographic blood flow variation relative to lower limb position](#), 8th European Conference on Medical Physics (ECMP2014), Athens, Greece, September 11-13, **2014**.
 - 49) Ioannis Karachalios, Dimitrios Mathes, **Ioannis Valais**, Ioannis Vamvakas, Ioannis Sianoudis, [Development of a Timing Control System for Laser Induced Fluorescence \(Lif\) in Medical Applications](#), 8th European Conference on Medical Physics (ECMP2014), Athens, Greece, September 11-13, **2014**.
 - 50) A. Poulakis, S. Angelakis, G. Fountos, G.S. Panagiotakis, I. Asteriadis, **I. Valais**, [Nuclear Cardiology Image Enhancement using Wavelet Transform Analysis](#), 8th European Conference on Medical Physics (ECMP2014), Athens, Greece, September 11-13, **2014**
 - 51) **I. Valais**, C. Michail, A. Bakas, N. Kalyvas, K. Kourkoutas, I. Seferis, I. Kandarakis, A. Gektin, and S. David, [Luminescent and scintillation properties of LFS-3 and GAGG:Ce crystals](#), echnology and Instrumentation in Particle Physics **2014** (TIPP 2014), Amsterdam, Netherlands, June 2-6.
 - 52) **I. Valais**, S. David, C. Michail, A. Bakas, N. Kalyvas, K. Kourkoutas, I. Seferis, I. Kandarakis, and P. Liaparinos, [Light emission measurements of LFS-3 and GAGG:Ce single crystal samples under X-ray radiographic conditions](#), echnology and Instrumentation in Particle Physics **2014** (TIPP **2014**), Amsterdam, Netherlands, June 2-6.
 - 53) Christos Michail, George Karpetas, George Fountos, Nektarios Kalyvas, Niki Martini, Vaia Koukou, **Ioannis Valais**, Ioannis Kandarakis [Medical Imaging Image Quality Assessment with Monte Carlo Methods](#), 4th International Conference on Mathematical Modeling in Physical Sciences, June 5-8, **2015**, Mykonos, Greece.
 - 54) Nektarios Kalyvas, Niki Martini, Vaia Koukou, **Christos Michail**, Panagiota Sotiropoulou, **Ioannis Valais**, Ioannis Kandarakis, George Fountos, [A theoretical investigation of spectra utilization for a CMOS based indirect detector for dual energy applications](#), 4th International Conference on Mathematical Modeling in Physical Sciences, June 5-8, **2015**, Mykonos, Greece.
 - 55) Christos M. Michail, George P. Fountos, **Ioannis Valais** and Ioannis Kandarakis, Inter-Comparison of Resolution Assessment Methods And Their Effect In Image Quality Parameters, [Conference on Bio-Medical Instrumentation and related Engineering and Physical Sciences \(BIOMEPE 2015\)](#), June 18-20, **2015**, Athens, Greece.
 - 56) Christos Michail, Nektarios Kalyvas, Ioannis Seferis, Thomas Sideras, **Ioannis Valais**, George Fountos, Athanasios Bakas, George Panayiotakis and Ioannis Kandarakis, Information capacity of Gd₂O₂S:Pr,Ce,F scintillators coupled to CMOS x-ray sensor, [Conference on Bio-Medical Instrumentation and related Engineering and Physical Sciences \(BIOMEPE 2015\)](#), June 18-20, **2015**, Athens, Greece.
 - 57) Christos M. Michail, George E. Karpetas, George P. Fountos, Nektarios I. Kalyvas, **Ioannis G. Valais**, Dimitrios Nikolopoulos, Ioannis S. Kandarakis and George S. Panayiotakis, Assessment of the contrast to noise ratio (CNR) in positron emission tomography scanners with monte carlo methods, [Conference on Bio-Medical Instrumentation and related Engineering and Physical Sciences \(BIOMEPE 2015\)](#), June 18-20, **2015**, Athens, Greece
 - 58) George E. Karpetas, Christos M. Michail, George P. Fountos, Nektarios I. Kalyvas, **Ioannis G. Valais**, Dimitrios Nikolopoulos, Ioannis S. Kandarakis and George S. Panayiotakis, Influence of iterative reconstruction algorithms on pet image resolution, [Conference on Bio-Medical Instrumentation and related Engineering and Physical Sciences \(BIOMEPE 2015\)](#), June 18-20, **2015**, Athens, Greece
 - 59) S. David, **I. Valais**, C. Michail, N. Kalyvas, P. Liaparinos, I. Kandarakis, Absolute efficiency and statistical distribution of the light flashes emitted by the GOS:Pr powder phosphor screens under X-ray general radiography imaging

- conditions, [Conference on Bio-Medical Instrumentation and related Engineering and Physical Sciences \(BIOMEPEP 2015\), June 18-20, 2015, Athens, Greece.](#)
- 60) S. David, I. **Valais**, C. Michail, N. Kalyvas, I. Kandarakis, Decay time measurements of powder scintillators used in X-ray imaging indirect detectors, [Conference on Bio-Medical Instrumentation and related Engineering and Physical Sciences \(BIOMEPEP 2015\), June 18-20, 2015, Athens, Greece](#)
 - 61) I Karachalios, **I Valais**, D Mathes, I Vamvakas, E Drakaki, and I Sianoudis, 47. Implementation of a control system in Laser induced fluorescence (LIF) measurements of skin tissue samples and screen phosphors, [Conference on Bio-Medical Instrumentation and related Engineering and Physical Sciences \(BIOMEPEP 2015\), June 18-20, 2015, Athens, Greece](#)
 - 62) S. David, I. **Valais**, C. Michail, I. Kandarakis, X-ray Luminescence efficiency of GAGG:Ce single crystal scintillators for use in Tomographic Medical Imaging Systems, [Conference on Bio-Medical Instrumentation and related Engineering and Physical Sciences \(BIOMEPEP 2015\), June 18-20, 2015, Athens, Greece](#)
 - 63) I. Seferis, J. Zeler, C. Michail, **I. Valais**, G. Fountos, N. Kalyvas, A. Bakas, I. Kandarakis, E. Zych, X-ray imaging performance of thin semitransparent films of LuPO₄:Eu, [Conference on Bio-Medical Instrumentation and related Engineering and Physical Sciences \(BIOMEPEP 2015\), June 18-20, 2015, Athens, Greece](#)
 - 64) P. Liaparinos, N. Kalyvas, S. David, C. Michail, **I. Valais**, G. Fountos, I. Kandarakis, Study on the optical diffusion performance of granular phosphors employed in medical imaging, [Conference on Bio-Medical Instrumentation and related Engineering and Physical Sciences \(BIOMEPEP 2015\), June 18-20, 2015, Athens, Greece](#)
 - 65) **Ioannis G. Valais**, Christos M. Michail, Dimitrios N. Nikolopoulos, Christina C. Fountzoula, Athanasios Bakas, Panayiotis H. Yannakopoulos, George S. Panayiotakis and Ioannis S. Kandarakis, Effect of the concentration on the X-ray luminescence efficiency of a cadmium selenide/zinc sulfide (CdSe/ZnS) quantum dot nanoparticle solution, [Conference on Bio-Medical Instrumentation and related Engineering and Physical Sciences \(BIOMEPEP 2015\), June 18-20, 2015, Athens, Greece.](#)
 - 66) Panagiota I. Sotiropoulou, George G. Fountos, Niki D. Martini, Vaia N. Koukou, Christos M. Michail, **Ioannis Valais**, Ioannis S. Kandarakis and George C. Nikiforidis, X-ray dual energy spectra optimization for bone Calcium/Phosphorus mass ratio estimation, [Conference on Bio-Medical Instrumentation and related Engineering and Physical Sciences \(BIOMEPEP 2015\), June 18-20, 2015, Athens, Greece](#)
 - 67) N. Kalyvas, **I. Valais**, C. Michail, G. Fountos, P. Liaparinos, S. David, I. Kandarakis. Experimental and theoretical study of the photoreceptor effect in indirect conversion digital detectors, [Conference on Bio-Medical Instrumentation and related Engineering and Physical Sciences \(BIOMEPEP 2015\), June 18-20, 2015, Athens, Greece](#)
 - 68) N. Kalyvas, C. Michail, G. Fountos, **I. Valais**, P. Liaparinos, S. David, I. Kandarakis. A theoretical study of optical photon propagation in granular scintillator detectors, [Conference on Bio-Medical Instrumentation and related Engineering and Physical Sciences \(BIOMEPEP 2015\), June 18-20, 2015, Athens, Greece.](#)
 - 69) I. Kandarakis, I. **Valais**, G. Fountos, N. Kalyvas, P. Liaparinos, **C. Michail**, S. David, Medical Image Science through luminescence (MISCIRLU project), [Conference on Bio-Medical Instrumentation and related Engineering and Physical Sciences \(BIOMEPEP 2015\), June 18-20, 2015, Athens, Greece](#)
 - 70) I. Stathopoulos, K. Skouroliakou, **C. Michail** and I. **Valais**, Dynamic infrared thermography study of blood flow relative to lower limb position, [Conference on Bio-Medical Instrumentation and related Engineering and Physical Sciences \(BIOMEPEP 2015\), June 18-20, 2015, Athens, Greece](#)
 - 71) M. Tzomakas, A. Episkopakis, N. Kalyvas, **C. Michail**, I. **Valais**, G. Panayiotakis, I. Kandarakis, Effect of energy on imaging performance of electronic portal imaging devices, [Conference on Bio-Medical Instrumentation and related Engineering and Physical Sciences \(BIOMEPEP 2015\), June 18-20, 2015, Athens, Greece](#)
 - 72) V. Koukou, N. Martini, I. Vasiloudis, L. Klimi, **C. Michail**, I. **Valais**, N. Kalyvas, A. Bakas, I. Kandarakis and G. Fountos, [DETECTIVE QUANTUM EFFICIENCY \(DQE\) OF THE DEXELA 2923MAM DETECTOR ACCORDING TO IEC 62220-1-1:2015](#), 1st European Congress of Medical Physics, 1-4 September, **2016**, Athens, Greece, Physica Medica: European Journal of Medical Physics, Volume 32, Supplement 3, Pages 291-292.
 - 73) N. Kalyvas, P. Maragkaki, A. Bakas, G. Fountos, V. Koukou, N. Martini, **C. Michail**, I. **Valais** and I. Kandarakis, [X-Ray Response Of A Digital Detector For Dental Radiographs](#), 1st European Congress of Medical Physics, 1-4 September, **2016**, Athens, Greece, Physica Medica: European Journal of Medical Physics, Volume 32, Supplement 3, Pages 291-292.
 - 74) I. Kapetanakis, G. Fountos, C. Michail, **I. Valais**, N. Kalyvas, 3D printing X-Ray Quality Control Phantoms. A Low Contrast Paradigm, [Conference on Bio-Medical Instrumentation and related Engineering and Physical Sciences \(BIOMEPEP 2017\), October 12-13, 2017, Athens, Greece.](#)
 - 75) G. Saatsakis, **I. Valais**, C. Michail, C. Fountzoula, G. Fountos, V. Koukou, N. Martini, N. Kalyvas, A. Bakas, I. Sianoudis, I. Kandarakis and G.S. Panayiotakis, Preliminary Study of ZnS:Mn²⁺Quantum Dots Response Under UV and X-Ray Irradiation, [Conference on Bio-Medical Instrumentation and related Engineering and Physical Sciences \(BIOMEPEP 2017\), October 12-13, 2017, Athens, Greece.](#)
 - 76) I. E. Seferis, C. Michail, J. Zeler, **I. Valais**, G. Fountos, N. Kalyvas, A. Bakas, I. Kandarakis, E. Zych, G. S. Panayiotakis, X-ray imaging resolution of phosphor screens prepared with different grains size and shape of granular

Lu2O3:Eu, BIOMEPE 2017, [Conference on Bio-Medical Instrumentation and related Engineering and Physical Sciences \(BIOMEPE 2017\), October 12-13, 2017, Athens, Greece.](#)

- 77) **I. Valais**, C. Michail, C. Fountzoula, G. Fountos, G. Saatsakis, A. Karabotsos, G.S. Panayiotakis and I. Kandarakis, Polymer Based Thin Film Screen Preparation Technique, [Conference on Bio-Medical Instrumentation and related Engineering and Physical Sciences \(BIOMEPE 2017\), October 12-13, 2017, Athens, Greece.](#)
- 78) Vaia Koukou, Niki Martini, **Ioannis Valais**, Athanasios Bakas, Nektarios Kalyvas, Eleftherios Lavdas, George Fountos, Ioannis Kandarakis and Christos Michail, Resolution Properties of a Calcium Tungstate (CaWO₄) Screen Coupled to a CMOS Imaging Detector, [Conference on Bio-Medical Instrumentation and related Engineering and Physical Sciences \(BIOMEPE 2017\), October 12-13, 2017, Athens, Greece.](#)
- 79) A. Anastasiou, C. Michail, V. Koukou, N. Martini, A. Bakas, F. Papastamati, P. Maragkaki, L. Lavdas, G. Fountos, **I. Valais**, N. Kalyvas, Examining the Spatial Frequency Components of a Digital Dental Detector, , [Conference on Bio-Medical Instrumentation and related Engineering and Physical Sciences \(BIOMEPE 2017\), October 12-13, 2017, Athens, Greece.](#)
- 80) A Dezi, E Monachesi, M D'Ignazio, L Scalise, L Montalto, N Paone, D Rinaldi, P Mengucci G Loudos, A Bakas, C Michail, I Valais, C Fountzoula, G Fountos and S David. Structural Characterization and Absolute Luminescence Efficiency Evaluation of Gd₂O₃S High Packing Density Ceramic Screens Doped with Tb³⁺ and Eu³⁺ for further Applications in Radiology, , [Conference on Bio-Medical Instrumentation and related Engineering and Physical Sciences \(BIOMEPE 2017\), October 12-13, 2017, Athens, Greece](#)

CITATIONS

Google Scholar: 964

Excl. Self Citations: 346

h-index:20

i10-index:29

Scopus : 746

h-index:17

Excl. Self Citations: 484

RESEARCH INTERESTS

Radiation Detectors, X-ray and Gamma ray Luminescent Materials, X-ray and Gamma ray Instrumentation, Medical Image Processing, Medical Lasers, Quality Assurance, Electrical Safety

WORKING EXPERIENCE

Experience in the technical support and applications of Medical Instruments.

March 1990 - Sept. 1990: Vocational trainee in the Service Dept. of DIOPHAR S.A., 368 Kifissias ave., 152 33 Halandri.

Participation in the testing and repair of:

- 1) Renal Dialysis,
- 2) Blood Coagulation Time Measuring,
- 3) Lithotripsy Systems and
- 4) Mobile X-ray Units.

Sept. 1990 - Sept. 1991: Medical Instrumentation Engineer in the Service Dept. of DIOPHAR S.A., 368 Kifissias ave., 152 33 Halandri.

In charge of servicing:

- 1) Renal Dialysis,
- 2) Blood Coagulation Time Measuring,
- 3) Mobile X-ray Units.

- Sept. **1992** - Sept. **1993**: Biomedical Engineer in the Service Dept. of DIOPHAR S.A., 368 Kifissias ave., 152 33 Halandri.
In charge of service and application of:
- 1) Nuclear Medicine (camera),
 - 2) Ultrasound (U.L.S.),
 - 3) Computerized Tomography (CT),
 - 4) Renal Dialysis,
 - 5) Radiography units(-R).
- March **1993** - Oct. **1994**: Military Service. Most of my military service I served as a Medical Device Engineer.
- Oct. **1994** - Oct. **1998**: Biomedical Engineer in the Service Dept. of DIOPHAR S.A., 368 Kifissias ave., 152 33 Halandri.
In charge of service and application of:
- 1) Nuclear Medicine (camera),
 - 2) Ultrasound (U.L.S.),
 - 3) Computerized Tomography (CT),
 - 4) Renal Dialysis,
 - 5) Radiography units(-R)
 - 4) Magnetic Resonance Imaging (MRI),
 - 5) LASER,
 - 6) Peritoneal Dialysis
- Oct. **1998** – Feb. **2001**: Supervisor in Maintenance and Application of Medical Devices in the Service Dept. of DIOPHAR S.A., 368 Kifissias ave., 152 33 Halandri. In charge of:
- 1) Nuclear Medicine (camera),
 - 2) LASER,
 - 3) Peritoneal Dialysis

LANGUAGES

| | |
|---------|----------------------|
| Greek | Native |
| English | Postgraduate Studies |
| French | Satisfactory. |