



# Curriculum Vitae

20/03/2024

Dr. Christos Michail
















Associate Professor

Department of Biomedical Engineering, University of  
West Attica, Greece

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## PERSONAL INFORMATION

Name:	Christos		<a href="#">Scopus profile</a> : 15822361800
Surname:	Michail		ORCID ID: <a href="#">0000-0001-5863-8013</a>
	18-5-1982		<a href="#">linkedin.com/in/christos-michail</a>
	+30-2105385387		<a href="#">researchgate.net/profile/Christos-Michail-2</a>
	<a href="mailto:cmichail@uniwa.gr">cmichail@uniwa.gr</a>		<a href="https://scholar.google.gr/citations?user=ICQjC6QAAAAJ&amp;hl=en&amp;oi=ao">https://scholar.google.gr/citations?user=ICQjC6QAAAAJ&amp;hl=en&amp;oi=ao</a>
	<a href="https://bme.uniwa.gr/profile/cmichail/">https://bme.uniwa.gr/profile/cmichail/</a>		<a href="https://publons.com/researcher/1103385/christos-michail/">https://publons.com/researcher/1103385/christos-michail/</a>
	<a href="https://aktyva.uniwa.gr/">https://aktyva.uniwa.gr/</a>		Web of Science ID: H-6089-2019
	 <a href="#">Cave diver</a>		<a href="#">Aegean Rebreath volunteer</a>

## DEGREES AND QUALIFICATIONS

### B.Sc.

[Department of Medical Instrumentation Technology](#)  
[Technological Educational Institute \(TEI\) of Athens.](#)

#### THESIS

Part A: Installation and quality control of Magnetic Resonance Imaging systems.

Part B: Quality control in Radiology and Fluoroscopy (8/10/2004). *Grade: 10*

Supervisor: Prof I. Kandarakis [kandarakis@teiath.gr](mailto:kandarakis@teiath.gr)

#### PRACTISE

Six months in the department of Biomedical Technology of the cancer [Hospital 'Metaxa'](#) in Piraeus (1/42004-30/9/2004).

### M.Sc.

International Interdepartmental postgraduate program in Medical Physics University of Patras Schools of Health Science-Faculties of Medicine-Physics (3/11/2006).

#### THESIS

[Experimental and theoretical determination of the imaging characteristics in new phosphor-scintillator materials with cerium \(Ce3+\) activators applied in medical digital detectors.](#) (23/10/2006). *Grade: 10*

Supervisors: Prof G. Panayiotakis [panayiot@upatras.gr](mailto:panayiot@upatras.gr) and Prof. I. Kandarakis, [kandarakis@teiath.gr](mailto:kandarakis@teiath.gr)

## Ph.D

Postgraduate course in Medical Physics (PhD). University of Patras Schools of Health Science-Faculties of Medicine-Physics

Research subject: [Investigation of optical and imaging characteristics of fluorescent screens for use in digital imaging detectors suitable for telemedicine.](#) (14/05/2010)

Supervisors: Prof G. Panayiotakis [panayiot@upatras.gr](mailto:panayiot@upatras.gr) and Prof. I. Kandarakis [kandarakis@teiath.gr](mailto:kandarakis@teiath.gr)

## PARTICIPATION IN SCIENTIFIC PROGRAMS

- 1) European Union-Greek Ministry of Education, Research Program ARCHIMIDIS II, '[Experimental investigation and simulation of radiation detection materials applied in Radiology and Nuclear Medicine systems via Monte Carlo techniques](#)', as researcher assistant for 3 years (1.01.2005-31.12.2007). Coordinator: Professor Dr. Ioannis Kandarakis ([kandarakis@teiath.gr](mailto:kandarakis@teiath.gr)).
- 2) European Union-Greek Ministry of Education, Research program ARCHIMIDIS «[Development of membranes for optical visualization of high resolution in the near infrared](#)» (from 1/1/2007 to 28/2/2007). Coordinator: Professor Dr. E. Koudoumas ([koudoumas@stef.teiher.gr](mailto:koudoumas@stef.teiher.gr))
- 3) Technological Educational Institution of Athens, Research program EPEAEK II «THALIS» «[A novel method for the Modulation Transfer Function \(MTF\) determination in PET/CT scanners](#)» (from 1/1/2009 to 31/12/2010) Coordinator: Professor Dr. Oikonomou Georgia, ([goikon@teiath.gr](mailto:goikon@teiath.gr))
- 4) European Union-Greek Ministry of Education, Research program ARCHIMIDIS «[Novel applications of x-ray Dual Energy for early diagnosis in Osteoporosis, mammography and angiography](#)» Acronym: XDualGnosis, Duration: 01/03/2012-03/06/2015 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, Coordinator: As. Professor: Dr. George Fountos, Technological Educational Institution of Athens [gfoun@teiath.gr](mailto:gfoun@teiath.gr).
- 5) European Union-Greek Ministry of Education, Research program ARCHIMIDIS «[Experimental evaluation of new co-doped Scintillator materials for use in Combined Tomographic Imaging Systems](#)» Acronym: ScoDo, Duration: 01/03/2012 - 31/12/2014 Research Domain 5. Mathematics, Physics, Chemistry. Research Area LS7; Diagnostic tools, therapies and public health. Primary Field of Research. LS7\_1; Medical engineering and technology. Coordinator: Professor: Dr. Konstantinos Kourkoutas, Technological Educational Institution of Athens [k\\_kourkoutas@yahoo.gr](mailto:k_kourkoutas@yahoo.gr).
- 6) European Union-Greek Ministry of Education, Research program ARCHIMIDIS «[Development of Monte Carlo simulation tool for evaluation of nano-phosphor based X-ray imaging detectors.](#)» Acronym: NanoCarlo. Duration: 01/03/2012 - 30/09/2014. Coordinator: Professor: Dr. Ioannis Kandarakis, Technological Educational Institution of Athens [kandarakis@teiath.gr](mailto:kandarakis@teiath.gr).
- 7) European Union-Greek Ministry of Education, Research program ARISTEIA «[Medical Image Science through Luminescence \(MISCIRLU\) project](#)». Acronym: Miscirlu. Duration: 01/03/2013 - 27/09/2015. Coordinator: Professor: Dr. Ioannis Kandarakis, Technological Educational Institution of Athens [kandarakis@teiath.gr](mailto:kandarakis@teiath.gr).
- 8) European Union-Greek Ministry of Education, Research program THALIS «[Multidisciplinary study of air quality with emphasis indoors](#)» Acronym: IndrAQ, Duration: 01/09/2011-31/12/2013 Primary Field of Study:11.9.3 Secondary Field:11.9.99 Measurement and Analysis of indoor air contamination. References Professor: Dr. Zisos Athanasios, Technological Educational Institution of Piraeus.
- 9) European Union-Greek Ministry of Education, Research program Academic and scientific excellence, [Evaluation of medical imaging detectors. Influence of the scintillating material on the detector performance](#), TEI Athens, Research team: I. Kandarakis, G. Fountos, I. Valais, N. Kalyvas, P. Iliaparinis, **C. Michail**, S. David.
- 10) European Union-Greek Ministry of Education, Research program ARISTEIA «[Medical Image Science through Luminescence \(MISCIRLU\) project](#)». Acronym: Miscirlu. Coordinator: Professor: Dr. Ioannis Kandarakis, Technological Educational Institution of Athens [kandarakis@teiath.gr](mailto:kandarakis@teiath.gr).

- 11) European Union-Greek Ministry of Education, Research program UPDATING UNIVERSITY GRADUATES KNOWLEDGE «New Developments in Biomedical Technology» Coordinator: Professor: Dr. Ioannis Kandarakis, Technological Educational Institution of Athens [kandarakis@teiath.gr](mailto:kandarakis@teiath.gr).
- 12) Technological Educational Institution of Athens, Research committee. [Organization & Quality Control study of an audiometry laboratory](#). Coordinator: Professor: Dr Ioannis Valais. Duration: 1/04/2014-31/03/2015.
- 13) Technological Educational Institution of Athens, Research committee. [Development of composite materials \(quantum dots modified with polymers\) for medical imaging applications](#) Coordinator: Professor: Dr Ioannis Valais. Duration: 01/10/2015-30/09/2016.
- 14) University of West Attica, Research memorandum between University of West Attica and Aegean Rebreath on [microplastics and heavy metals pollution in Greek seas](#). Coordinators on behalf of the University of West Attica (Ioannis Sanioudis, Christos Michail).
- 15) Operational Programme Human Resources Development, Education and Lifelong Learning, Research program “Support for researchers with an emphasis on young researchers-cycle B.” – ΕΔΒΜ 103 “[Human body mineral characterization using Dual Energy X-ray method](#)” (MIS): 5050326, co-funded from the European Social Fund (ESF) (80789) Duration: 2020 – 2021, Coordinator: Professor George Fountos.
- 16) Research program "A Novel Non-Invasive Hybrid Dual Energy X-ray System for Mineral characterization in human body for use in Urology and Dentistry Diagnosis (HD-R Gnosis)" within the project "Funding of Basic Research (Horizontal support of all Sciences ), National Recovery and Resilience Plan (Greece 2.0)" (A.P. 52921/25.08.2022). Scientific Area EP2 "Engineering Sciences and Technology" within the framework of Sub-Action 1 "Funding of Young Researchers" Duration: 2020 – 2021, Scientific Leader: Christos Michail, Assistant Professor, Duration: 2 years

## Participation In Scientific Programs (Approved At The First Phase Of Evaluation)

- 1) European Union-Greek Ministry of Education, Research program Funding Opportunities for Postdoctoral Research Support of Postdoctoral Researchers «Development of a novel digital detector for use in Dual Energy Imaging and quantification aiming in early diagnosis of Breast Cancer and Osteoporosis», Postdoctoral Researcher: Christos Michail Acronym: XDualGnosis, Primary Field of Research. LS7.
- 2) European Union-Greek Ministry of Education, Research program Επικαιροποίηση Γνώσεων Αποφοίτων ΑΕΙ «[Modern developments in Biomedical Engineering](#)». Coordinator: Professor: Dr. Ioannis Kandarakis, Technological Educational Institution of Athens [kandarakis@teiath.gr](mailto:kandarakis@teiath.gr).

## SCHOLARSHIPS

Scholar of the [Greek State Scholarships Foundation \(I.K.Y.\)](#) for Academic Years 2007-2010 on the ‘Technology of Telecommunications in Medicine’ speciality after succeeding in the exams of the Foundation.

## DISTINCTIONS

European Union-Greek Ministry of Education, Research program Academic and scientific excellence, [Evaluation of medical imaging detectors. Influence of the scintillating material on the detector performance](#), TEI Athens, Research team: I. Kandarakis, G. Fountos, I. Valais, N. Kalyvas, P. Iliaparinos, C. Michail, S. David.

## MILITARY SERVICE

Special Scientist soldier at the [Center of Research and Technology](#) of the Hellenic Army (17/09/2010 - 17/05/2011).

## SCIENTIFIC ACTIVITIES

### Reviewer In Scientific Journals and Conferences

Verified Reviews Web of Science: <https://www.webofscience.com/wos/author/record/904201>

**Web of Science™**

Web of Science CV  
Prepared on March 14th 2024

## Christos Michail

<https://www.webofscience.com/wos/author/rid/H-6089-2019>

Web of Science ResearcherID: H-6089-2019

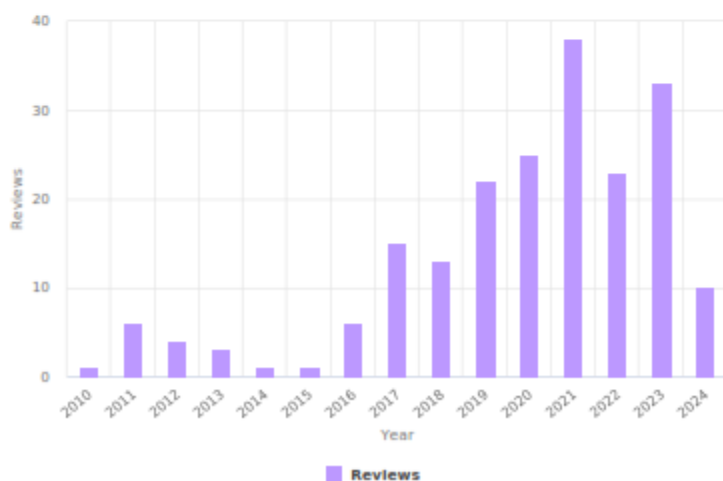
ORCID: 0000-0001-5863-8013

Current affiliation:

- University of West Attica from 2019

## Verified Reviews

### Review Summary



**Figure 1.** Reviews summary (Source Web of Science, 03-2024).

1. [European Radiology](#).

2. [The Journal of Engineering Research.](#)
3. [Measurement.](#)
4. [Information Technology Research Journal](#)
5. [Physica Medica](#)
6. [Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment](#)
7. [Ecotoxicology and Environmental Safety](#)
8. [4<sup>th</sup> International Conference on Mathematical Modeling in Physical Sciences, 5-8/6, 2015 Greece.](#)
9. [Radiation Measurements](#)
10. [British Journal of Medicine and Medical Research](#)
11. [Nuclear Science and Techniques](#)
12. [Research on Chemical Intermediates](#)
13. [Journal of the Chemical Society of Pakistan](#)
14. [Journal of Electronic Materials](#)
15. [Photonics](#)
16. [Scinte 2015](#)
17. [Journal of physics conference series](#)
18. [Current Medical Imaging Reviews](#)
19. [Journal of Luminescence](#)
20. [Arabian Journal of Chemistry](#)
21. [Journal of Scientific Research and Reports](#)
22. [Thin Solid Films](#)
23. [Sensors](#)
24. [Microelectronics Journal](#)
25. [Annual Research & Review in Biology](#)
26. [ACS Applied Materials & Interfaces](#)
27. [Journal of Photochemistry and Photobiology B: Biology](#)
28. [Optik - International Journal for Light and Electron Optics](#)
29. [Crystals](#)
30. [Materials](#)
31. [Physics Letters A](#)

32. [Ultrasonics – Sonochemistry](#)
33. [Materials Research](#)
34. [Micromachines](#)
35. [Nanomaterials](#)
36. [IEEE Access](#)
37. [Sensors & Actuators: A. Physical](#)
38. [Optics & Laser Technology](#)
39. [Molecules](#)
40. [SoftwareX](#)
41. [Materials Chemistry and Physics](#)
42. [Symmetry](#)
43. [Ceramics International](#)
44. [Coatings](#)
45. [Journal of Alloys and Compounds](#)
46. [Heliyon](#)
47. [Materials Letters](#)
48. [Electronics](#)
49. [Engineering, Technology & Applied Science Research](#)
50. [Pharmaceuticals](#)
51. [Journal of Rare Earths](#)
52. [Sustainability](#)
53. [Applied Sciences](#)
54. [Progress in Natural Science: Materials International](#)
55. [Tomography](#)
56. [Cureus](#)
57. [Technologies](#)
58. [Journal of Process Mechanical Engineering](#)
59. [Journal of Personalized Medicine](#)
60. [Algorithms](#)
61. [Frontiers in Physics](#)



62. [Nature Scientific Reports](#)
63. [Journal of Instrumentation](#)
64. [Optical Materials](#)
65. [Journal of Sensors](#)
66. [Diagnostics](#)
67. [Review of Scientific Instruments](#)
68. [Surfaces and Interfaces](#)
69. [Inorganics](#)
70. [Condens. Matter](#)
71. [Modern Physics Letters B](#)
72. [IEEE Transactions on Radiation and Plasma Medical Sciences](#)
73. [Modelling](#)

## Reviewer Summary

For manuscripts reviewed from date range January 2004 - March 2024

(18) European Radiology	(17) Nanomaterials
(14) Materials	(10) Crystals
(9) Sensors	(9) Journal of Electronic Materials
(8) Nuclear Science and Techniques	(7) Electronics
(7) Applied Sciences	(6) Measurement
(4) Nuclear Instruments and Method...	(4) Materials Research
(4) Journal of Luminescence	(4) Sensors and Actuators A: Physical
(3) ACS Applied Materials & Interfac...	(3) Materials Letters
(3) Physics Letters A	(3) Micromachines
(2) Diagnostics	(2) Condensed Matter
(2) Inorganics	(2) Review of Scientific Instruments
(2) Materials Chemistry and Physics	(2) Journal of Rare Earths
(2) Journal of Photochemistry and P...	(2) Coatings
(2) Optics & Laser Technology	(2) Physica Medica
(2) Current Medical Imaging	(2) Ceramics International
(2) Journal of Sensors	(2) Molecules
(2) Algorithms	(2) Pharmaceuticals
(2) Symmetry	(1) Radiation Measurements
(1) Modelling	(1) IEEE Transactions on Radiation a...
(1) Modern Physics Letters B	(1) Microelectronics Journal
(1) Journal of Chemical Society of P...	(1) IEEE Access
(1) Heliyon	(1) Journal of Alloys and Compounds
(1) Journal of Instrumentation	(1) Progress in Natural Science: Mat...
(1) NIMB Proceedings	(1) Optical Materials
(1) Optik - International Journal for L...	(1) Frontiers in Physics
(1) Ecotoxicology and Environmenta...	(1) Current Medical Imaging Reviews
(1) Cureus	(1) Arabian Journal of Chemistry
(1) Scientific Reports	(1) SoftwareX
(1) The Journal of Engineering Rese...	(1) Thin Solid Films
(1) Tomography	(1) Ultrasonics Sonochemistry
(1) Surfaces and Interfaces	(1) Engineering, Technology & Appli...
(1) Journal of Personalized Medicine	(1) Proceedings of the Institution of ...
(1) Technologies	(1) Sustainability
(1) Journal of Scientific Research an...	(1) Annual Research & Review in Bio...
(1) Photonics	

Figure 2. Reviewer in Journals (Source Web of Science, 03-2024).

## Editor records

### Editor Summary

For manuscripts handled from date range January 2004 - March 2024

(6) Sensors

**Figure 3.** Editor records (source Web of Science 03-2024).

## Reviewer In Scientific Projects

1. [Science peer reviewer for MBIE's 2013 Science Investment Round](#), Science Investments, Science Skills and Innovation, Ministry of Business, Innovation & Employment, New Zealand Government.
2. [Competitive Research Grants \(CRG\)](#) programs at King Abdullah University of Science and Technology (KAUST).

## Editorial Board

[Engineering, technology and Applied Science Research](#) (ETASR) international journal (until 2021).

[e-Journal of Science & Technology \(e-JST\)](#).

## Session Chairman

1. [Workshop on Bio-Medical Instrumentation and related Engineering And Physical Sciences](#) Technological Educational Institute of Athens, Friday 6 July 2012.
2. [Conference on Bio-Medical Instrumentation and related Engineering and Physical Sciences \(BIOMEPE 2015\), June 18-20, 2015, Athens, Greece](#)

## Conference's Organizing Committee

1. [2<sup>nd</sup> Conference on Bio-Medical Instrumentation and related Engineering And Physical Sciences Technological Educational Institute of Athens June 21-22, 2013, Athens, Greece.](#)
2. [Conference on Bio-Medical Instrumentation and related Engineering and Physical Sciences \(BIOMEPE 2015\), June 18-20, 2015, Athens, Greece](#)
3. [Conference on Bio-Medical Instrumentation and related Engineering and Physical Sciences \(BIOMEPE 2017\), October 12-13, 2017, Athens, Greece.](#)

## Conference's Scientific Committee

[Conference on Bio-Medical Instrumentation and related Engineering And Physical Sciences Technological Educational Institute of Athens.](#)

## Guest Editor

Guest Editor of the special issue [\(2015\) 637](#) in J. Phys.: Conf. Ser.

Guest Editor of the special issue [\(2017\) 931](#) in J. Phys.: Conf. Ser.

Guest Editor of the Special Issue "[Development and Application of Novel Dual Energy X-ray Imaging Methods](#)" in Crystals journal (IF 2.14).

Guest Editor of the Special Issue "[Radiation Detectors and Sensing Technologies for Biomedical Applications](#)" in Sensors journal (IF 3.9).

## Membership in Scientific Organizations

- 1) [Greek Society of Experimental Mechanics of Materials](#).
- 2) [Italian Group Fracture \(IGF\)](#) Certificate code: IGF 65/20.
- 3) European Structural Integrity Society (ESIS) Member ID: 2022-483.

## TEACHING EXPERIENCE

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### Teaching (Undergraduate Courses)

- 1) Technological Educational Institution of Athens, Department of Medical Instruments Technology, Laboratory of Ionizing Radiations III (Laboratory exercises on MRI) (2006-2010).
- 2) Technological Educational Institution of Athens, Faculty of Health and Caring Professions, Department of Radiologic Technologists. Teaching Digital Imaging, Radiotherapy (24/10/2011-10/07/2012).
- 3) Technological Educational Institution of Athens, Department of Medical Instruments Technology, Laboratory of non-ionizing Radiations (Laboratory exercises on MRI) (24/10/2011-10/07/2012).
- 4) Technological Educational Institution of Athens, Department of Medical Instruments Technology, Laboratory of optoelectronics and Lasers (24/10/2011-10/07/2012).
- 5) Technological Educational Institution of Athens, Department of Medical Instruments Technology, Laboratory of Maintenance & Quality Assurance of Medical Equipment (24/10/2011-10/07/2012).
- 6) Technological Educational Institution of Athens, Department of Medical Instruments Technology, CAD I Laboratory (24/10/2011-10/07/2012).
- 7) Ministry of National Education & Religious Affairs, Organisation for Vocational Education and Training (O.E.E.K.), Public Institute of Professional Training (I.E.K) Aigaleo, Health Care and Social Services sector, specialty: Radiotherapy Medical Devices, code: 13.02.04.12, course: Medical Imaging Physics III (10/10/2011- 14/02/2012).
- 8) Technological Educational Institution of Athens, Department of Medical Instruments Technology, Laboratory of non-ionizing Radiations (Laboratory exercises on MRI) (08/10/2012-12/07/2013).
- 9) Technological Educational Institution of Athens, Department of Medical Instruments Technology, Laboratory of optoelectronics and Lasers (08/10/2012-12/07/2013).
- 10) Technological Educational Institution of Athens, Department of Medical Instruments Technology, Laboratory of Maintenance & Quality Assurance of Medical Equipment (08/10/2012-12/07/2013).
- 11) Ministry of National Education & Religious Affairs, Organisation for Vocational Education and Training (O.E.E.K.), Public Institute of Professional Training (I.E.K) Keratsiniou, Health Care and Social Services sector, specialty: Radiotherapy Medical Devices, code: 13.02.04.12, course: Medical Imaging Physics I (10/10/2012- 14/02/2013).

- 12) Technological Educational Institution of Athens, Department of Biomedical Engineering, Laboratory of optoelectronics and Lasers (08/10/2013-12/07/2014).
- 13) Technological Educational Institution of Athens, Department of Biomedical Engineering, Laboratory of Maintenance & Quality Assurance of Medical Equipment (08/10/2013-12/07/2014).
- 14) Technological Educational Institution of Athens, Department of Biomedical Engineering, Laboratory of electrical circuits and measurements in Biomedical Technology (29/10/2013-04/07/2014).
- 15) Technological Educational Institution of Athens, Department of Biomedical Engineering, Laboratory of optoelectronics and Lasers (27/10/2014-06/07/2015).
- 16) Technological Educational Institution of Athens, Department of Biomedical Engineering, Laboratory of Maintenance & Quality Assurance of Medical Equipment (27/10/2014-06/07/2015).
- 17) Technological Educational Institution of Athens, Department of Biomedical Engineering, Laboratory of electrical circuits and measurements in Biomedical Technology (27/10/2014-06/07/2015).
- 18) Technological Educational Institution of Athens, Department of Biomedical Engineering, Laboratory of optoelectronics and Lasers (04/11/2015-01/07/2016).
- 19) Technological Educational Institution of Athens, Department of Biomedical Engineering, Laboratory of Maintenance & Quality Assurance of Medical Equipment (04/11/2015-01/07/2016).
- 20) Technological Educational Institution of Athens, Department of Biomedical Engineering, Laboratory of electrical circuits and measurements in Biomedical Technology (04/11/2015-01/07/2016).
- 21) Technological Educational Institution of Athens, Department of Biomedical Engineering, Laboratory of optoelectronics and Lasers (01/11/2016-30/06/2017).
- 22) Technological Educational Institution of Athens, Department of Biomedical Engineering, Laboratory of Maintenance & Quality Assurance of Medical Equipment (01/11/2016-30/06/2017).
- 23) Technological Educational Institution of Athens, Department of Biomedical Engineering, Laboratory of electrical circuits and measurements in Biomedical Technology (01/11/2016-30/06/2017).
- 24) Technological Educational Institution of Athens, Department of Biomedical Engineering, Laboratory of Biomedical Devices Design and development methodology (01/11/2016-30/06/2017).
- 25) University of West Attica, Department of Biomedical Engineering, Laboratory of optoelectronics and Lasers (29/11/2017-13/07/2018).
- 26) University of West Attica, Department of Biomedical Engineering, Laboratory of Maintenance & Quality Assurance of Medical Equipment (29/11/2017-13/07/2018).
- 27) University of West Attica, Department of Biomedical Engineering, Laboratory of electrical circuits and measurements in Biomedical Technology (29/11/2017-13/07/2018).
- 28) University of West Attica, Faculty of Health and Caring Professions, Department of Radiologic Technologists. Teaching Specialized Topics in Medical Informatics (21/03/2018-13/07/2018).
- 29) University of West Attica, Department of Biomedical Engineering, Laboratories of Electricity and Circuit Analysis, Maintenance & Quality Assurance of Medical Equipment, optoelectronics and Lasers (08/11/2018-12/07/2019).
- 30) University of West Attica, Faculty of Health and Caring Professions, Department of Biomedical Sciences. Teaching Biophysics (14/11/2018-08/03/2019).
- 31) University of West Attica, Department of Biomedical Engineering, Laboratories of Electricity and Circuit Analysis, Maintenance & Quality Assurance of Medical Equipment, optoelectronics and Lasers (01/11/2019-05/12/2019).
- 32) University of West Attica, Faculty of Health and Caring Professions, Department of Biomedical Sciences. Teaching Biophysics (05/11/2019-05/12/2019).
- 33) Assistant Professor, University of West Attica, Faculty of Health and Caring Professions, Department of Biomedical Sciences. Teaching Biophysics (2019-2021).
- 34) Assistant Professor, University of West Attica, Department of Biomedical Engineering, since 19-11-2019. [Quantum Sciences and Technologies](#), [Research Methodology](#), [Maintenance and Quality Assurance of Medical Devices](#), [Optoelectronics](#).
- 35) Associate Professor, University of West Attica, Department of Biomedical Engineering, since 24-01-2024. [Quantum Sciences and Technologies](#), [Research Methodology](#), [Maintenance and Quality Assurance of Medical Devices](#), [Optoelectronics](#), [Hospital Organization and Operation](#).

## Teaching (Postgraduate Courses)

- 1) International Interdepartmental postgraduate program in Medical Physics. University of Patras Schools of Health Science Faculties of Medicine-Physics (2006-2010).
- 2) Interdepartmental postgraduate program in Information Technologies in Medicine and Biology (I.T.M.B.). Department of Informatics and Telecommunications of the National and Kapodistrian University of Athens (UoA), Technological Educational Institute (TEI) of Athens, Foundation for Biomedical Research of the Academy of Athens (BRFAA), Institute of Informatics and Telecommunications of the National Centre for Scientific Research "Demokritos" (2010- 2013).
- 3) Departmental postgraduate program in Advanced Systems and Methods in Biomedical Engineering. Department of Biomedical Engineering, University of West Attica. (2015-2022).
- 4) Departmental postgraduate program in «Biomedical Engineering & Technology» Department of Biomedical Engineering, University of West Attica. (2022-23,24) ([Teaching «Quality Assurance and Medical Device Regulations»](#)).

## Teaching (Erasmus Courses)

- 1) Departmental graduate program ERASMUS+. Department of Medical Radiological Technology, Faculty of Health and Caring Professions, Technological Educational Institute of Athens. Lecture: 'Artifacts & quality control in CT and MRI' (2014, 2016, 2017, 2018, 2019, 2022, 2023).

## ADMINISTRATIVE WORK

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### Administrative positions

**2023 - present:** Member of OMEA of the Biomedical Engineering department. Excerpt of Minutes of the meeting of the Assembly of the Department of Biomedical Engineering of the University of West Attica with No. 10/21-04-2023 and 13/23-5-2023.

**01/9/2022 – 31/8/2023:** Director of the "Biomedical Technology" Division of the Department of Biomedical Engineering of the University of West Attica. NO.- 68002 - 21-07-2022.

**2020-21:** Academic Advisor in Operational Programme Human Resources Development, Education and Lifelong Learning, Research program "Support for researchers with an emphasis on young researchers-cycle B." – ΕΔΒΜ 103 "[Human body mineral characterization using Dual Energy X-ray method](#)" (MIS): 5050326, co-funded from the European Social Fund (ESF) (80789) Duration: 2020 – 2021, Dept of Biomedical Engineering, University of West Attica, Athens, Greece. [ΑΔΑ: 9ΞΝ346Μ9ΞΗ-ΩΛΔ](#)

**2021 - today:** Member of the Coordinating Committee of the MSc. "Advanced Systems and Methods in Biomedical Technology" of the Department of Biomedical Engineering of the University of West Attica (decision of the President of the Department No.10 22/06/22).

### Personnel evaluation committee

**2020:** Member of the Appeals Committee for Candidate Young Scientists with PhDs of the General Assemblies of the Departments of the University of West Attica. Decision of the Department of Biomedical Engineering 08/18.06.2020, Decision

of the meeting of the Special Account of Research Grants Committee of the University of West Attica with No. 3/21-07-2020.  
ΑΔΑ: ΩΗΨΥ46Μ9ΞΗ-ΔΩΞ

**2021:** Member of the Appeals Committee for Candidate Young Scientists with PhDs of the General Assemblies of the Departments of the University of West Attica. Decision of the Department of Biomedical Engineering 13/07/2021, Decision of the meeting of the Special Account of Research Grants Committee of the University of West Attica with No. 29/15-07-2021.  
ΑΔΑ: ΨΟ6Τ46Μ9ΞΗ-6ΝΧ

**2022:** Member of the Appeals Committee for Candidate Young Scientists with PhDs of the General Assemblies of the Departments of the University of West Attica. Decision of the Department of Biomedical Engineering 09/24.05.2022, Decision of the meeting of the Special Account of Research Grants Committee of the University of West Attica with No. 22/05-07-2022.  
ΑΔΑ: ΨΓΘΔ46Μ9ΞΗ-ΤΛ7

**2020:** Member of the Evaluation Committee for postgraduate students and doctoral candidates of the University of West Attica, in the context of the implementation of the Action "Supporting the educational activities of the University of West Attica during the academic year 2020-2021 by integrating remedial teaching in addition to the main lectures" with OPS code 5089141 (project code 80935), with Scientific Manager Mr. Panagiotis Kaldis, Professor. Department meeting decision 04/23.03.2021  
ΑΔΑ: 6ΔΗΙ46Μ9ΞΗ-19Π

## Member of Election Committees

**2020:** Member of the Election Committee for the nomination of Section Directors of the Department of Biomedical Engineering of the Faculty of Engineering of the University of West Attica.

**2021:** Member of the Election Committee for the nomination of Section Directors of the Department of Biomedical Engineering of the School of Engineering of the University of West Attica.

**2021:** Member of the Central Election Committee for the nomination of the President and Deputy President of the Department of Biomedical Engineering of the Faculty of Engineering of the University of West Attica.

## Member of procurement tender's committees

**2023 - present:** Member of the temporary committee for the receipt of laboratory equipment of the School of Engineering. No. prot.: 58305/15.06.2023 Decision of the Dean of the School of Engineering ΑΔΑ: ΡΟ8146Μ9ΥΜ-ΣΑΝ

**2021-present:** Member of the Commission for the Characterization of Equipment to be Retired of the Department of Biomedical Engineering of the School of Engineering of the University of West Attica, according to the Provisions of the Institution's "Fixed Items of Equipment Management Regulation" Decision of the Special Account of Research Grants Committee meeting of University of West Attica with No. 20/21-12-2021 ΑΔΑ: 9Δ6Α46Μ9ΞΗ-2ΩΒ

**2021:** Member of the Technical Assistance Committee of the Laboratory Equipment Competition Implementation Committee of the University of West Attica. Decision of the President of the Department of Biomedical Engineering, School of Engineering, University of West Attica.

**2021-present:** Member of the Committee for the temporary Receipt of Laboratory Equipment of the University of West Attica. No. 23/08-12-2021 Department Assembly Decision.

**2020-21:** Member of the Committee for Receiving and Certification of Deliverables of the project entitled 103 "[Human body mineral characterization using Dual Energy X-ray method](#)" with OPS code 5050326 (project code 80789), with PI Mr. George Fountos, Professor UNIWA. Decision of the meeting of the Special Account of Research Grants Committee of the University of West Attica with No. 14/19-05-2020 ΑΔΑ: ΨΩΔΕ46Μ9ΞΗ-Π2Ε

**2020-21:** Substitute Member of the Committee for Receiving and Certification of Project Deliverables "Application of Machine Learning Algorithms for Molecular Imaging Applications" with OPS code 5050329 with Mr. Dimitrios Glotsos, Associate Professor UNIWA. in the OP "Human Resource Development, Education and Lifelong Learning" in priority axis 6 (project code 80787) Decision of the meeting of the Special Account of Research Grants Committee of the University of West Attica with No. 34/03-11-2020 ΑΔΑ: Ω31Β46Μ9ΞΗ-ΜΦ1.

**2020-present:** Member of the Radiation Physics, Materials Technology and Biomedical Imaging Laboratory (Director Prof. G. Fountos) (Establishment decision: Official Gazette vol.B'/No.695/1-3-2019) of the Department of Biomedical Engineering of the University of West Attica. <https://aktyva.uniwa.gr/main-research-group/>

**2021-present:** Website manager of the Radiation Physics, Materials Technology and Biomedical Imaging Laboratory (Director Professor G. Fountos) (Establishment decision: Official Gazette vol.B'/No.695/1-3-2019) of the Department of Biomedical Engineering of the University of West Attica. <https://aktyva.uniwa.gr/contact/>

## DOCTORAL ADVISORY COMMITTEES

Supervisor of **1** PhD Candidate

### Department of Biomedical Engineering/ University of West Attica

Linardatos Dionysios, Title of thesis: Development of a Prototype CMOS Digital Imaging System for X-Ray Medical Applications, **Supervisor: Michail Christos**, Members of the Advisory Committee: **Michail Christos**, Foundos Georgios, Valais Ioannis, Department Assembly decision number: 2/4-2-2020. Successful PhD defense: 10-03-2023.

<https://bme.uniwa.gr/profile/dr-dionysios-linardatos/>

Member in **6** Doctoral Advisory Committees.

### Department of Biomedical Engineering/ University of West Attica



- 1) Linardatos Dionysios, Title of thesis: Development of a Prototype CMOS Digital Imaging System for X-Ray Medical Applications, **Supervisor: Michail Christos**, Members of the Advisory Committee: **Michail Christos**, Foundos Georgios, Valais Ioannis, Department Assembly decision number: 2/4-2-2020.
- 2) Anagnostou Ilias, Title of thesis: Study of Scattered Radiation in Medical Imaging Systems, Supervisor: Kalyvas Nektarios, **Members of the Advisory Committee:** Kalyvas Nektarios, Liaparinos Panagiotis, **Michail Christos**, Department Assembly decision number: 21/12-11-2021.
- 3) Doupis Vasilios, Title of thesis: Study of Luminescence Performance of Fluoride Crystals for Use in Medical Imaging Systems, Supervisor: Valais Ioannis, **Members of the Advisory Committee:** Valais Ioannis, Kalyvas Nektarios, **Michail Christos**, Department Assembly decision number: 2/15-02-2021.
- 4) Tseremoglou Stavros, Title of thesis: Study and Optimization of the Luminescence Performance Parameters of Single Crystals, for Use in Ionizing Radiation Detection of Hybrid Medical Imaging Systems, Supervisor: Kalyvas Nektarios, **Members of the Advisory Committee:** Kalyvas Nektarios, Ioannis Valais, **Christos Michail**, Department Assembly decision number: 1/22-1-2021.
- 5) Michail Marinis, Title of thesis: Alternative Medical Data Structures to Support Fast and Effective Medical Decision Making, Supervisor: Maria Kallergi, **Members of the Advisory Committee:** Maria Kallergi, Dimitrios Glotsos, **Christos Michail**, Department Assembly decision number: 18/6-10-2022.

#### **Department of Public Health Policy / University of West Attica**

- 6) Bidikoudis Panagiotis, Title of thesis: Evaluation of Service Provision Home health: The case of home x-rays in Greece., Supervisor: Dounias Georgios, **Members of the Advisory Committee:** Georgios Dounias, Athanasakis Konstantinos, **Christos Michail**, Department Assembly decision number: 3rd/05-04-2022 (Subject 4)

#### **Member of Doctoral Theses Examination Committees**

Member of **1** examination committee for Doctoral theses

#### **Department of Industrial Design and Production Engineering / University of West Attica**

- 1) Nikolaos Hadjisavvas, Title of thesis: Dose analysis of CT and SPECT Medical Imaging Systems using Monte Carlo techniques. Supervisor: Nikolopoulos Dimitrios, Members of the Advisory Committee: Nikolopoulos Dimitrios, Georgios Priniotakis, Ioannis Valais, **Members of the examination committee:** Dimitrios Nikolopoulos, George Priniotakis, Ioannis Valais, George Fountos, **Christos Michail**, George Prezerakos, Giannakopoulos Panagiotis, **Department Assembly decision number:** 113316 - 21/11/2023

## PostDoctoral Researchers

#### **Department of Biomedical Engineering/ University of West Attica**

Linardatos Dionysios, Title of PostDoctoral research: [Development of a Prototype CMOS Digital Imaging System for X-Ray Medical Applications](#), Supervisor: **Michail Christos**, Department Assembly decision number: 13/23-05-2023

## PEER-REVIEWED PUBLICATIONS

### Publications in international scientific journals

- 1) 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](https://doi.org/10.1016/j.nima.2006.05.170).

IF (2006): 1.185

- 2) **C. Michail**, S. David, P. Liaparinis, 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

- 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 (2007) Efficiency of  $\text{Lu}_2\text{SiO}_5:\text{Ce}$  (LSO) powder phosphor as X-ray to light converter under mammographic imaging conditions *Nucl. Instrum. Meth. Phys. Res. A* 571(1-2):346-349. doi:[10.1016/j.nima.2006.10.106](https://doi.org/10.1016/j.nima.2006.10.106).

IF (2007): 1.114

- 4) I. Valais, S. David, **C. Michail**, D. Nikolopoulos, P. Liaparinis, D. Cavouras, I. Kandarakis and G. S. Panayiotakis (2007) Comparative study of luminescence properties of  $\text{LuYAP}:\text{Ce}$  and  $\text{LYSO}:\text{Ce}$  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

- 5) I. Valais, S. David, **C. Michail**, A. Konstantinidis, I. Kandarakis and G. S. Panayiotakis (2007) Investigation of luminescence properties of the  $\text{LSO}:\text{Ce}$ ,  $\text{LYSO}:\text{Ce}$  and  $\text{GSO}:\text{Ce}$  crystal scintillators under low-energy  $\gamma$ -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

- 6) 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  \$\(\text{Lu},\text{Y}\)\_2\text{SiO}\_5:\text{Ce}\$  and  \$\text{Gd}\_2\text{SiO}\_5:\text{Ce}\$  single crystal scintillators under x-ray excitation, for use in medical imaging systems](https://doi.org/10.1109/TNS.2006.888813) *IEEE Trans. Nucl. Sci.* 54(1):11-18. doi: [10.1109/TNS.2006.888813](https://doi.org/10.1109/TNS.2006.888813).

IF (2007): 1.107

- 7) D. Nikolopoulos, D. Linardatos, P. Gonias, N. Bertsekas, **C. Michail**, S. David, D. Cavouras and I. Kandarakis, "Monte Carlo Validation in The Diagnostic Radiology Range (2007) *Nucl. Instrum. Meth. Phys. Res. A* 571(1-2):267-269. doi:[10.1016/j.nima.2006.10.079](https://doi.org/10.1016/j.nima.2006.10.079).

IF (2007): 1.114

- 8) N. Efthimiou, N. Kalivas, G. Patatoukas, I. Valais, D. Nikolopoulos, A. Gaitanis, A. Konstantinidis, S. David, **C. Michail**, G., G. Loudos, D. Cavouras, K. Kourkoutas, G.S. Panayiotakis and I. Kandarakis (2007) Investigation of the effect of the scintillator material on the overall X-ray detection system performance by application of analytical models *Nucl. Instrum. Meth. Phys. Res. A* 571(1-2):270-273. doi:[10.1016/j.nima.2006.10.080](https://doi.org/10.1016/j.nima.2006.10.080).

IF (2007): 1.114

Curriculum Vitae

Dr. Christos Michail

9) **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/cm<sup>2</sup> Lu<sub>2</sub>SiO<sub>5</sub>:Ce \(LSO\) scintillating screen for use in x-ray digital mammography detectors](#) *e-Journal of Science & Technology, (e-JST)* 2(1):72-80.

10) **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 Gd<sub>2</sub>O<sub>2</sub>S:Eu \(GOS:Eu\) powder screens under X-ray mammography conditions](#), *IEEE Trans. Nucl. Sci.* 55(6):3703-3709. doi: [10.1109/TNS.2008.2007562](#)

IF (2008): 1.737

11) 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 \(Lu,Y\)<sub>2</sub>SiO<sub>5</sub>:Ce \(LYSO:Ce\) and \(Lu,Y\)AlO<sub>3</sub>:Ce \(LuYAP:Ce\) single crystal scintillators under x-ray medical image conditions](#) *IEEE Trans. Nucl. Sci.* 55(2):785-789. doi: [10.1109/TNS.2008.918737](#)

IF (2008): 1.737

12) 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. doi:[10.1016/j.ejmp.2008.01.007](#).

IF (2008): 1.045

13) S. David, **C. Michail**, I. Valais, A. Toutountzis, D. Cavouras, I. Kandarakis, G. Panayiotakis (2008) [Investigation of luminescence properties of Lu<sub>2</sub>SiO<sub>5</sub>:Ce \(LSO\) powder scintillator in the x-ray radiography energy range](#) *IEEE Trans. Nucl. Sci.* 55(6):3684-3691. doi: [10.1109/TNS.2008.2006901](#).

IF (2008): 1.737

14) V. Spyropoulou, N. Kalivas, A. Gaitanis, **C. Michail**, G. Panayiotakis, I. Kandarakis (2008) [Modeling detector performance in digital mammography using the linear cascaded systems approach](#) *e-Journal of Science & Technology (e-JST)* 3(2):51-57.

15) **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 Lu<sub>2</sub>SiO<sub>5</sub>:Ce and Gd<sub>2</sub>O<sub>2</sub>S:Eu powder scintillators for use in x-ray mammography detectors](#) *Meas. Sci. Technol.* 20: 104008. doi: [10.1088/0957-0233/20/10/104008](#).

IF (2009): 1.317

16) **C. Michail**, A. Toutountzis, S. David, N. Kalivas, I. Valais, I. Kandarakis, G. S. Panayiotakis (2009) [Imaging performance and light emission efficiency of Lu<sub>2</sub>SiO<sub>5</sub>:Ce \(LSO:Ce\) powder scintillator under x-ray mammographic conditions](#) *Appl Phys B* 95:131-139. doi:[10.1007/s00340-009-3408-0](#)

IF (2009): 1.992

17) **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. doi:[10.1088/1748-0221/4/05/P05018](#)

IF (2009): 2.102

18) 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. doi:[10.1088/1748-0221/4/06/P06013](#)

IF (2009): 2.102

- 19) V. Spyropoulou, N. Kalyvas, A. Gaitanis, C. **Michail**, G. Panayiotakis, I. Kandarakis (2009) [Modelling the imaging performance and low contrast detectability in digital mammography](#) *J. Inst.* 4:P06004. doi:[10.1088/1748-0221/4/06/P06004](#)

IF (2009): 2.102

- 20) A. Toutountzis, C. **Michail**, I. Valais, S. David, G. Nikiforidis and I. Kandarakis (2009) [Light emission efficiency of GdAlO<sub>3</sub>:Ce \(GAP:Ce\) powder screens under X-ray radiography conditions](#) *e-Journal of Science & Technology, (e-JST)* 4(3):23-29.
- 21) 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 Gd<sub>2</sub>O<sub>2</sub>S:Eu powder scintillator under X-ray Radiography conditions](#), *Med. Phys.* 37( 7):3694-3703. doi:[10.1118/1.3451113](#)

IF (2010): 3.070

- 22) 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 Gd<sub>2</sub>O<sub>2</sub>S:Eu Powder Phosphors as X-ray to Light Converter](#) *e-Journal of Science & Technology, (e-JST)* 5(2):25-32.
- 23) 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 Ce<sup>3+</sup> doped Scintillators in a wide Range of Photon Energies covering X-ray CT, Nuclear Medicine and Megavoltage Radiation Therapy Portal Imaging applications](#), *IEEE Trans. Nucl. Sci.* 57(1):3-7. doi: 10.1109/TNS.2009.2038273

IF (2010): 1.591

- 24) 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](#) *IEEE Trans. Nucl. Sci.* 57(3):951-957. doi: [10.1109/TNS.2010.2044890](#)

IF (2010): 1.591

- 25) 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.
- 26) M. Liaskos, C. **Michail**, N. Kalyvas, A. Toutountzis, S. Tsantis, G. Fountos, D. Cavouras and I. Kandarakis (2010) [Implementation of a Software Phantom for the Assessment of Contrast Detail in Digital Radiography](#) *e-Journal of Science & Technology, (e-JST)* 5(2):15-23.
- 27) G. Fountos, A. Zanglis, C. **Michail**, I. Kalantzis, A. Samartzis, D. Cavouras, E. Kounadi, P. Valsamaki, I. Kandarakis, S. Gerali and G. Nikiforidis (2010) [A novel flood source used for the MTF determination in SPECT systems](#) *e-Journal of Science & Technology, (e-JST)* 5(2):1-6.
- 28) A. Samartzis, G. Fountos, I. Kalantzis, C. **Michail**, A. Zanglis, D. Cavouras, I. Datseris, E. Kounadi, D. Vattis, I. Kandarakis and G. Nikiforidis (2010) [The use of Modulation Transfer Function as an Overall Quality Control parameter in PET/CT](#) *e-Journal of Science & Technology, (e-JST)* 5(2):41-48.
- 29) 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](#), *IEEE Trans. Nucl. Sci.* 58(1):314-322. doi: [10.1109/TNS.2010.2094206](#)

IF (2011): 1.519

- 30) **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 Gd<sub>2</sub>O<sub>3</sub>:Eu powder scintillator for use in indirect X-ray digital mammography detectors](#), *IEEE Trans. Nucl. Sci.* 58(5):2503-2511. doi: [10.1109/TNS.2011.2162002](https://doi.org/10.1109/TNS.2011.2162002)

IF (2011): 1.519

- 31) N. Kalyvas, P. Liaparinos, **C. Michail**, S. David, G. Fountos, M. Wojtowicz and I. Kandarakis (2012) [Studying the luminescence efficiency of Lu<sub>2</sub>O<sub>3</sub>:Eu nano-phosphor material for digital X-ray imaging applications](#), *Appl Phys A* 106:131-136. doi: [10.1007/s00339-011-6640-5](https://doi.org/10.1007/s00339-011-6640-5)

IF (2012): 1.63

- 32) G. P. Fountos, **C. M. Michail**, A. Zanglis, A. Samartzis, N. Martini, V. Koukou, I. Kalatzis and I. Kandarakis (2012) [A novel easy-to-use phantom for the determination of MTF in SPECT scanners](#), *Med. Phys.* 39(3):1561-1570. doi: [10.1118/1.3688196](https://doi.org/10.1118/1.3688196)

IF (2012): 2.91

- 33) 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.
- 34) 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.
- 35) 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.
- 36) 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.
- 37) 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.
- 38) S. David, M. Georgiou, G. Loudos, **C. Michail**, G. Fountos and I. Kandarakis, (2013) [Evaluation of powder/granular Gd<sub>2</sub>O<sub>3</sub>:Pr scintillator screens in single photon counting mode under 140keV excitation](#), *J. Inst.* 8: P01006. doi:[10.1088/1748-0221/8/01/P01006](https://doi.org/10.1088/1748-0221/8/01/P01006)

IF (2013): 1.526

- 39) G. E. Karpetas, **C. M. Michail**, G. P. Fountos, P. N. Valsamaki, I. S. Kandarakis, G. S. Panayiotakis, (2013) [Towards the optimization of nuclear medicine procedures for better spatial resolution, sensitivity, scan image quality and quantitation measurements by using a new Monte Carlo model featuring PET imaging](#), *Hell J Nucl Med.* 16(2) :111-120. doi: [10.1967/s002449910082](https://doi.org/10.1967/s002449910082)

IF (2013): 0.957

- 40) **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 GdAlO<sub>3</sub>:Ce powder scintillators](#), *J Lumin.* 144:45-52. doi:[10.1016/j.jlumin.2013.06.041](https://doi.org/10.1016/j.jlumin.2013.06.041)

IF (2013): 2.367

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Curriculum Vitae

Dr. Christos Michail

[P. Sotiropoulou, G. Fountos, N. Martini, V. Koukou, C. Michail, I. Kandarakis and G. Nikiforidis, Bone calcium/phosphorus ratio determination using Dual Energy X-ray method, \(2015\) \*Physica Medica: European Journal of Medical Physics\* 31:307-313.](#)

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## Publication

[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. \(corresponding author\)](#)

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## Publication

[V. Koukou, N. Martini, C. Michail, P. Sotiropoulou, C. Fountzoula, N. Kalyvas, I. Kandarakis, G. Nikiforidis and G. Fountos, Dual energy method for breast imaging: A simulation study. \(2015\) Comput. Math. Methods Med 2015:574238.](#)

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#### Publication

[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 012075.](#)

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#### Publication

V Koukou, N Martini, **C Michail**, P Sotiropoulou, N Kalyvas, I Kandarakis, G Nikiforidis and G Fountos, [Optimum filter selection for Dual Energy X-ray Applications through Analytical Modeling \(2015\) J. Phys.: Conf. Ser.](#) 633 012093.

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**Publication**

[Christos Michail, Image Quality Assessment of a CMOS/Gd<sub>2</sub>O<sub>2</sub>S:Pr,Ce,F X-ray Sensor, \(2015\) Journal of Sensors 2015:874637.](#)

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## Scientific Work Overview

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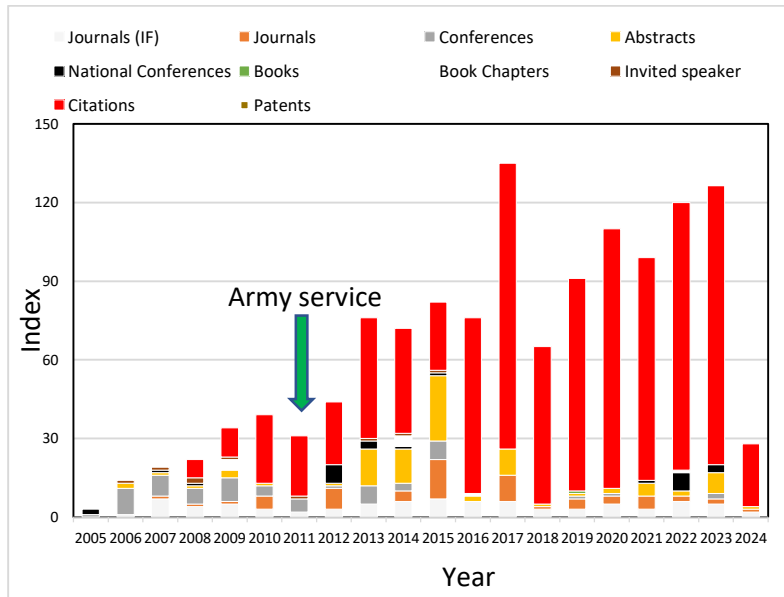


Figure 4 Scientific work overview.



Figure 5 Author position.

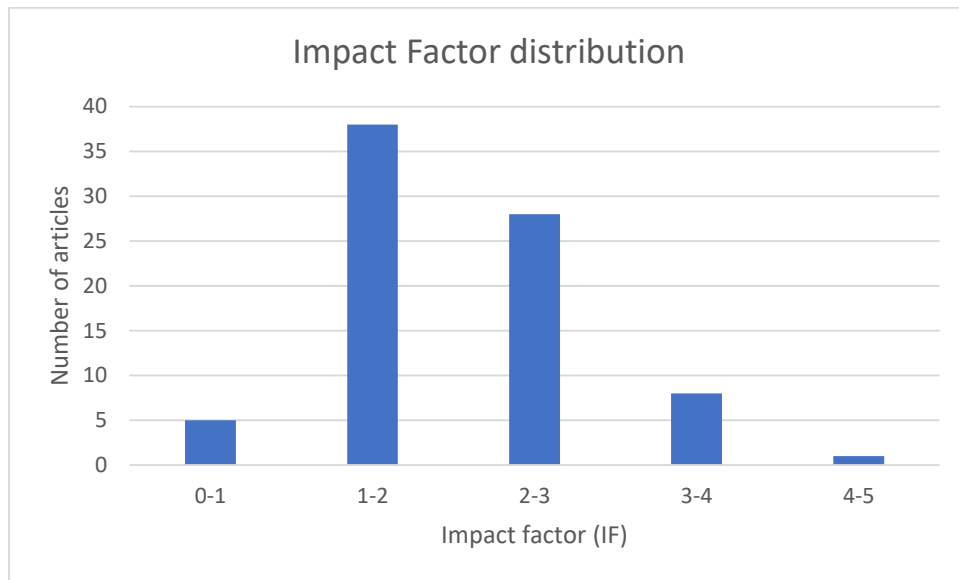


Figure 6 Impact factor distribution.