**Curriculum Vitae**

**Diamantopoulos George**

**Personal information**

Date of birth: 03-01-1974

Marital status: married (with 2 children)

Place of residence: Kappadokias 19a N. Pendeli, Attiki, 15236, Greece

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**Studies**

**1999 – 2003** Physics Department of the National Technical University of Athens. Research work conducted at the NMR lab of the Institute of Material Science in NCSR “Demokritos” Thesis Title ‘Study of molecular magnets with nuclear magnetic spectroscopy NMR’

**1997 – 1999** National Technical University of Athens, MSc in Applied Physics.

**1991 – 1996** Diploma thesis in the department of Physics University of Ioannina. Thesis title: ‘Analysis of thermal dissorption experiments (TDS) with Auger electron spectroscopy (AES).’ with Dr. Foulias.

**Awards** Four-year scholarship (1999-2003) at the National Center of Scientific Research “Demokritos”, awarded after examination.

**Professional experience**

**2017- Present Research associate** at the Stable Isotope Unit, Institute of Nanotechnology and Nanomaterials, of the National Center for Scientific Research “Demokritos”.

**2015 - 2017 Post Doc** at Khalifa University of Science Technology and Research, Research & Graduate Studies Office, Abu Dhabi, UAE**.**

**2012 – 2014 Research associate at ENDITECH S.A.** ENDITECH is a spin-off company of the National Center of Scientific Research “Demokritos” and specializes in non-destructive testing in concrete and metallic structures.

**2008 – 2011** **Post Doc** at the National Center of Scientific Research “Demokritos” in the Institute for Advanced Materials, Physicochemical Processes, Nanotechnology & Microsystems.

**2004 - 2008 Research associate** at the National Center of Scientific Research “Demokritos” in the Institute Materials Science. The scientific activities were mainly focused on magnetic induction heating and NMR in ferrofluids and NMR in porous materials.

**1998 – 2008 Teacher, translator of scientific papers and books.** Teacher of the physics class in numerous private and national departments. Translator of the Halliday & Resnick & Krane “PHYSICS” 4rth edition, A and B volumes.

**Scientific Interests**

Strong interest in basic and applied research on stable isotopes and correlation with NMR, ultrasound, XRF non-destructive methods. Applied in Bio-geo / cultural heritage and porous materials.

* Stable Isotopes analysis in bones for palaeodiet and palaeniviroment reconstruction.
* Stable Isotopes analysis in ancient glass artefacts and mortars.
* Stables Isotopes analysis in food for provenance and alteration detection.
* XRF in glass and metallic artefacts.
* Nuclear Magnetic Resonance (NMR)
* Magnetic induction heating and NMR in ferrofluids
* NMR in fluids confined in nanoporous materials
* Ultrasonic, acoustic and microseismic non-destructive methods in porous and metallic materials

**Key Skills**

Experimental:

1. Working experience in methodologies of non-destructing testing- ultrasound, eddy currents, XRF, Stable Isotopes and in methodologies of solid state Nuclear Magnetic Resonance with superconducting magnets of 2.35 T, 4.7 T and 9.4 T.
2. Development of a portable NMR device based on halbach magnets.
3. Development of a home-build NMR spectrometer at the frequency range of 1 – 100 MHz that operates in conjunction with a superconducting magnet of 2.35 T. Operation and adaptation of the spectrometer with a 2 T electromagnet. Optimization of the noise to signal ratio for conducting low field NMR experiments. Modifications of the cryostat in order to fit the electromagnet.
4. Development of low temperature probe (liquid Helium temperatures) with mounted variable capacitors that can be operated with rods outside the probe in room temperature. Development of probes and other devices for conducting lineshape experiments for magnetic material with extremely large frequency range (10 – 100 MHz), in absence of external magnetic field. Development of probe for conducting high temperature NMR experiments (up to 700 °C).
5. Operation of low temperature helium flow cryostats and vacuum systems and helium pot down to 2K temperature.
6. Transfer of superconducting magnets. Deactivation/activation of three superconductive magnets of 9.4, 4.7 and 2.4 Tesla. Development of a homebuilt superconducting magnet with variant field up to 8 Tesla with a low temperature cryostat.
7. Development of ultrasonic device (emission and reception) and adaptation to probe on a flow-cryostat in order to perform measurements of ultrasonic velocity versus temperature.
8. Development of recording and producing device of Lamb surface waves with accelerometers, piezocrystals and MFC patches at frequency range 5 kHz to 2 ΜHz.
9. Operation of RF heating devices and construction of coils for irradiation of samples at different frequencies and intensities with simultaneous recording of the temperature with thermocouples that are not affected by the RF fields.
10. Repair of NMR spectrometer and devices, like preamplifiers, amplifiers and development of devices like pulse inverters. Development of two new spectrometer with frequency range 5-800 MHZ.

**Data Analysis:** Use of data acquisition and processing tools i.e. Origin, Excel, Matlab and programming languages, Labview, C++, Foltran.

**Project Management:** Experience in accessing, managing, implementing and monitoring research programs in all aspects related to the scientific and financial issues, funded by the European Union and / or national resources.

**Teaching Experience**

During my work in NCSR “Demokritos” I supervised various undergraduate diploma theses and master’s theses and participated to the supervision of following Ph.D. thesis

1. 2006-2011 “Synthesis and characterization of magnetic nanoparticles” by D. Tsitrouli (Physisist), of the Physics department of the Aristotelio University of Thessalonica*. My contribution was on the development of probes for resonance at the proton frequencies of the above magnetic materials and hyperthermia devices. Training on the 4,5 and 9th skill sets of the above list.*
2. 2005-2010 “Study of the porous system of nanocrystalic materials and the hydration process photocatalytic pastes containing titania with Nuclear Magnetic Resonance and Atomic Force Microscopy”, by M. Kartsiotis of the Chemical Engineers department of the National Technical University of Athens. *My contribution was on the development of an emission/reception ultrasonic system in molds for the study of cement pastes hydration versus time. Training on the 4,5 and 7th skill sets of the above list.*
3. 2006-2009 “Production of composite Portland cement. Study of the physicochemical properties and durability of the pastes and concrete products.” By P. Pipilikaki of the Chemical Engineers department of the National Technical University of Athens. *My contribution was on the training on ultrasonic methods.*

Lecturer to the following courses:

**2015 - 2017** Physics for engineers Lecture (class size ~35), spring 2016 and spring 2017 / Khalifa University.

**2004 - 2014** NMR lab courses at the facilities of NCSR “Demokritos” during the summer schools programs.

**1999 – 2001** Physics for engineers lab courses (lab size ~25), 1999-2000 and 2000-2001 / National Technical University of Athens, School of Applied Mathematical and Physical Sciences, Department of Physics.

**1998- 2003** Teacher of physics classes in private schools.

**Research Projects**

Co-authored and participated in the following European and National projects:

1. Program EPAN “*Interstitial administration of innovative combinations of drugs and magnetic nanoparticles for the treatment and monitoring of tumour progression of nervous and digestive system.*” (2004-2006).
2. General Secretariat for research and technology /ΒΙΑΝΑΑΒΕΤΕ “*Development of immersion and regeneration of active carbon*” (2005-2006).
3. Program PEP, “*Development of novel bioactive magnetic nanomaterials for diagnosis and monitoring of pathology with magnetic resonance imaging*” (2006).
4. Program PENED General Secretariat for research and technology / National Technical University "*Production of Portland cement compound. Study on physicochemical properties and durability of mortars and concretes produced*” (2007).
5. General secretariat for research and technology “*Non-Destructive testing – radiography*” (2007).
6. ESPA 2007-2013,*”Development and application of novel microseismic methods for the non-destructive evaluation of concrete structures in transport.*”
7. *“Integrated Portable Diagnostic Tool for Non-Destructive Evaluation of Large Scale Concrete Structures.”* Program: Funding by the EUREKA-EUROSTARS EU. The Eurostars Programme is a European Joint Programme dedicated to the R&D performing SMEs, and co-funded by the European Communities and 33 EUREKA member countries. Project acronym: IN-PORE (2009-2012).
8. FP7-ENERGY-2011-1 *“Novel IΟnic LΙquid and supported ionic liquid solvents for reversible CAPture of CO2”,IOLICAP (2012-2016).*
9. ***“Detection, Evaluation and Total Control of RCF in Rails”.***Program: European Union under the National Strategic Reference Framework NSRF 2007-2013, COOPERATION 2011 - Partnerships of Production and Research Institutions in Focused Research and Technology Sectors*.* Project acronym: **DECORAIL**(2013-2015).
10. *“Combining innovative portable VISUAL, ACOUSTIC, MAGNETIC, and NMR methods, with in-situ CHEMICAL diagnostic tools for effective failure assessment and maintenance strategy of RAIL and subway systems.”* Program: Funding by the 7th Framework Programme of the European Union Research Executive Agency, SP4-Capacities, Research for the benefit of specific groups, Research for small and medium sized enterprises (SMEs), FP7-SME-2010-1.Project acronym: DIAGNO-RAIL (2011-2012).
11. *“Magnetic Nanoparticles and Thin Films for Spintronic Applications and High Performance Permanent Magnets”*. Program: Funding by the European Union under the Call Marie Curie International Research Staff Exchange Scheme (IRSES). Project acronym: NanoMag (2012-2015).
12. *Sampling and analysis of contemporary and ancient organic material and interpretation of results* **(Ε-11935), (2017-2019).**
13. “*Development of methodologies for quality control and fraud control of olive products by use of modern analytical and chemical technics*”, HOLEA (Τ1 ΕΔΚ-03816) MIS:5031223, (2019-present).

Participation in authoring/submission of numerous proposals under National (e.g. Cooperation 2010, THALES, PABET) and European funding research programs (FP7, Marie Curie, REGPOT, ENERGY, TRANSPORT, ERC, COST)

**Organization of conferences/workshops**

* Participation in the organization of the international “Ampere Workshop on Porous Systems and Systems with Restricted Geometry” (Delphi Greece August 23-28, 1998).
* Participation in the organization of the international “Ampere Summer School-Applications of Magnetic Resonance in Novel Materials” (Nafplion, Greece, 3-9 September. 2000)
* Participation in the organization of the international “Current trends in nanoscopic and mesoscopic magnetism” (Santorini Greece 6-9 September 2006)
* Participation in the organization of the international “Nanomaterials and nanotechnologies Conference and Summer School”, Ouranoupolis, July, 2010.
* Participation in the organization of the international “4th Workshop on Current Trends in Molecular and Nanoscopic Magnetism”, 11-14 June 2012, Chalkidi, Greece.
* Participation in the organization of the field exhibition/demonstration (2013) at the faciliteies of Attiko Metro, in the framework of the project “Combining innovative portable VISUAL, ACOUSTIC, MAGNETIC, and NMR methods, with in-situ CHEMICAL diagnostic tools for effective failure assessment and maintenance strategy of RAIL and subway systems”, DIAGNO-RAIL (2011-2012). Funding by the 7th Framework Programme of the European Union Research Executive Agency, SP4-Capacities, Research for the benefit of specific groups, Research for small and medium sized enterprises (SMEs), FP7-SME-2010-1.

**Reviewer in peer peview journals**

Microporous and mesoporous materials, Atmosphere, The European Physical Journal Plus, Molecules, Water, Foods, Sustainability, Geothermics, Separations.

At June 2021 I was included to the Topic Editors team of “Water” after invitation

**Publications in peer reviewed journals**

# *Chemical and isotopic characterization of the thermal fluids emerging along the North–Northeastern Greece,* E. Dotsika, P. Dalampakis, E. Spyridonos, G. Diamantopoulos, P. Karalis, M. Tassi, B. Raco, A. Arvanitis, N. Kolios & J. L. Michelot,Scientific Reports, 2021, 11(1), 16291

# *Isotopic Traceability (13C and 18O) of Greek Olive Oil*, Karalis, P., Poutouki, A.E., Nikou, T., Halabalaki, M., Proestos, C., Tsakalidou, E., Gougoura, S., Diamantopoulos, G., Tassi, M., Dotsika, E., Molecules **2020**, 25(24), DOI:10.3390/molecules25245816

# *The Role of Titanium dioxide on the Hydration of Portland Cement: A combined NMR and Ultrasonic Study*”, G. Diamantopoulos, M. S. Katsiotis, M. Fardis, I. Karatasios, S. M. Alhassan, M. Karagianni, G. Papavassiliou and J. Hassan, *Molecules* **2020**, *25*(22), 5364; <https://doi.org/10.3390/molecules25225364>

# *The peculiar size and temperature dependence of water diffusion in carbon nanotubes studied with 2D NMR diffusion–relaxation D –T2eff spectroscopy*, L. Gkoura, G. Diamantopoulos, M. Fardis, D. Homouz, S. Alhassan, M. Beazi-Katsioti, M. Karagianni, A. Anastasiou, G. Romanos, J. Hassan, and G. Papavassiliou Biomicrofluidics 14, 034114 (2020); Featured in scilight, https://doi.org/10.1063/5.0005398

# *Influence of Climate on Stable Nitrogen Isotopic Values of Contemporary Greek Samples: Implications for Isotopic Studies of Human Remains from Neolithic to Late Bronze Age Greece*, E. Dotsika and G. Diamantopoulos, Geosciences 2019 (Switzerland) 9(5):217, DOI: 10.3390/geosciences9050217

# *Establishment of a Greek Food Database for Palaeodiet Reconstruction: Case Study of Human and Fauna Remains from Neolithic to Late Bronze Age from Greece*, E. Dotsika, G. Diamantopoulos, S. Lykoudis, S. Gougoura, E. Kranioti, P. Karalis, D. Michael, E. Samartzidou and E. Palaigeorgiou, Geosciences 2019 (Switzerland) 9(4), 165: DOI: 10.3390/geosciences9040165

# *13C and 18O stable isotope analysis applied to detect technological variations and weathering processes of ancient lime and hydraulic mortars,* Dotsika, E.; Kyropoulou, D.; Christaras, V.; G. Diamantopoulos. Geosciences (Switzerland) 8 (9), 2018, DOI:10.3390/geosciences8090339.

# *Isotopic composition of spring water in Greece: spring waters isoscapes*, Dotsika E.; Diamantopoulos G.; Lykoudis S.; Poutoukis D.; Kranioti E.; Geosciences (Switzerland) 8 (7), 2018, DOI: 10.3390/geosciences8070238.

# *Isotopic reconstruction of diet in Medieval Thebes (Greece),* Dotsika, E.; Michael, D.E.; Iliadis, E.; Karalis P.; Diamantopoulos G., Journal of Archaeological Science: Reports, Vol. 22, 2018, DOI: 10.1016/j.jasrep.2018.08.019.

# *The fingerprint of Greek raw materials in the composition of ancient glasses with "unexpected" isotopic compositions,* Dotsika E., Ignatiadou D., Longinelli A., Poutoukis D., Diamantopoulos G., Journal of Archaeological Science: Reports, Vol. 22, 2018, DOI: 10.1016/j.jasrep.2017.12.030

# *Ultrafast Stratified Diffusion of Water Inside Carbon Nanotubes; Direct Experimental Evidence with 2D D−T2 NMR Spectroscopy,* J. Hassan, G. Diamantopoulos, L. Gkoura, M. Karagianni, S. Alhassan, S. V. Kumar, M. S. Katsiotis, T. Karagiannis, M. Fardis, N. Panopoulos, H. J. Kim, M. Beazi-Katsioti and G. Papavassiliou. J. Phys. Chem. C, 2018, 122 (19), pp 10600–10606, 2018, DOI: 10.1021/acs.jpcc.8b01377.

1. *An NMR study on the effect of water on hydrogen storage in palladium silica material (Pd/MCM-41).* Hassan, J., Guthrie, C.P., Diamantopoulos, G., Reardon, E.J., Materials Today Energy, 4, pp. 1-6, 2017.
2. *Water inside Carbon nanotubes: Structures and Dynamics* J. Hassan, G. Diamantopoulos, D.Homouz, G. Papavassiliou. Nanotechnology Reviews 5(3) · January 2016.
3. *Comprehensive Assessment of Additive and Class G cement Properties Affecting Rheology Fluid Loss Setting Time and Long Term Characteristics of Elastic Cements.* V.C. Kelessidis, M. Fraim, M. Fardis, E. Karakosta, G. Diamantopoulos, P. Arkoudeas, S. Elhardalo L. Lagkaditi, G.Papavassiliou. SPE international 167731 2014.
4. *Magnetic hyperthermia of laponite based ferrofluid* G. Diamantopoulos, G.Basina, V.Tzitzios, E.Karakosta, M.Fardis, Z.Jaglicic, N.Lazaridis, G. Papavassiliou, Journal of Magnetism and Magnetic Materials, **336**, 71 (2013).
5. *Structural, static and dynamic magnetic properties of dextran coated γ-Fe2O3 nanoparticles studied by 57Fe NMR, Mossbauer, TEM and magnetization measurements* M. Fardis, A. P.Douvalis, D. Tsitrouli, I. Rabias, D. Stamopoulos, Th, Kehagias, E. Karakosta, G. Diamantopoulos, T. Bakas, G. Papavassiliou, J. Phys.: Condens. Matter, **24,** 156001 (2012).
6. *Application of 1H NMR to hydration and porosity studies of lime-pozzolan mixtures* M. Tziotziou, E. Karakosta, I. Karatasios, G. Diamantopoulos, A. Sapalidis, M. Fardis, P. Maravelaki-Kalaitzaki, G. Papavassiliou, V. Kilikoglou, *Microporous & Mesoporous Materials*, **139**, 16 (2011).
7. *Spin order and lattice frustration in optimally doped manganites: A high-temperature NMR study* N. Panopoulos, D. Koumoulis, G. Diamantopoulos, M. Belesi, M. Fardis, M. Pissas, and G. Papavassiliou Physical Review B **(Editor's Suggestion)** **82**, 235102 (2010).
8. *Rapid magnetic heating treatment by highly charged maghemite nanoparticles on Wistar rats exocranial glioma tumors at microliter volume* I. Rabias, D. Tsitrouli, E. karakosta, T. Kehagias, G. Diamantopoulos, M. Fardis, D Stamopoulos, T. G. Maris, P. Falaras, N. Zouridakis, N. Diamantis, G. Papayotou, D. A. Verganelakis, G. I. Drossopoulou, E. C. Tsilibari, and G. Papavassiliou Biomicrofluidics**4**, 024111-8 (2010).
9. *In situ monitoring of cement gel growth dynamics. Use of a miniaturized permanent Halbach magnet for precise 1H NMR studies* E. Karakosta, G. Diamantopoulos, M. S. Katsiotis, M. Fardis, G. Papavassiliou, P. Pipilikaki, M. Protopapas, and D. Panagiotaras Industrial and Engineering Chemistry Research **49**, 613-622 (2010).
10. *Synthesis of biocompatible magnetic iron oxide (γ-Fe 2O3 and Fe3O4) nanoparticles by a modified polyol process for biomedical applications* Basina, G., Panagiotopoulos, I., Devlin, E., Hadjipanayis, G., Colak, L., Hadjipanayis, C., Mao, H., Diamantopoulos, G., Fardis, M., Papavassiliou, G., Niarchos, D., Tzitzios, *MRS Proceedings*, 1256. pp. 174-180, doi: 10.1557/PROC-1256-N06-35. (2010).
11. *Spin dynamics in the molecule-based ferromagnet deca-methyl-ferrocenium-tetracyanoethanide [FeCp\*2][TCNE], as probed by 1H NMR relaxation* M. Fardis, G. Diamantopoulos, E. Karakosta, I. Rabias, G. Papavassiliou, and J. Miller Polyhedron **28**, 3382 (2009).
12. *Salicylaldoxime in manganese(III) carboxylate chemistry: Synthesis, structural characterization and physical studies of hexanuclear and polymeric complex*es C. P. Raptopoulou, A. K. Boudalis, K. N. Lazarou, V. Psycharis, N. Panopoulos, M. Fardis, G. Diamantopoulos, J.-P. Tuchagues, A. Mari, and G. Papavassiliou Polyhedron **27**, 3575 (2008).
13. *Magnetic nanoparticles for biomedical applications* M. Fardis, I. Rabias, G. Diamantopoulos, N. Boukos, D. Tsitourli, G. Papavassiliou, D. Niarchos Journal of Optoelectronics and Advanced Materials **9**, 527-531 (2007).
14. *Syntheses, structural, and physical studies of basic Cr-III and Fe-III benzilates and benzoates: Evidence of antisymmetric exchange and distributions of isotropic and antisymmetric exchange parameters* V. Psycharis, C.P. Raptopoulou, A.K. Boudalis, Y. Sanakis, M. Fardis, G. Diamantopoulos, G. Papavassiliou, European Journal of Inorganic Chemistry **18**, 3710-3723 (2006).
15. *Low temperature charge and orbital textures in La0.875Sr0.125MnO3* G. Papavassiliou, M. Pissas, G. Diamantopoulos, M. Belesi, M. Fardis, D. Stamopoulos, A. G. Kontos, M. Hennion, J. Dolinsek, J-Ph. Ansermet, and C. Dimitropoulos Physical Review Letters **96**, 097201-097204 (2006).
16. *Hexanuxlear Iron(III) Salicylaldoximato Complexes Presenting the [Fe6(μ3-O)2(μ2-OR)2]12+ core: Synthesis, Crystal Structure, Spectroscopic and Magnetic Characterization* Catherine P. Raptopoulou, Athanassios K. Boudalis, Yiannis Sanakis, Vassilis Psycharis, Juan Modesto Clemente-Juan, Michael Fardis, George Diamantopoulos, George Papavassiliou, Inorganic Chemistry **45**, 2317-2326 (2006).
17. *A nearly symmetric trinuclear chromium(III) oxo carboxylate assembly: preparation, molecular and crystal structure, and magnetic properties of [Cr3O(O2CPh)6(MeOH)3](NO3)·2MeOH*A. Vlachos, V. Psycharis, C. P. Raptopoulou, N. Lalioti, Y. Sanakis, G. Diamantopoulos, M. Fardis, M. Karayanni, G. Papavassiliou, and A. Terzis Inorganic ChimicaActa**357**, 3162 (2004).
18. *Magnetic critical behaviour in the [Cu(1-hydroxybenzotriazolate)2(MeOH)]n molecule-based random-field magnet* M. Fardis, C. Christides, G. Diamantopoulos, V. Psycharis, C. Raptopoulou, V. Tangoulis, and G. Papavassiliou Physical Review B **68**, 184415 (2003).
19. *1H NMR investigation of the magnetic spin configuration in the molecule-based ferrimagnet [MnTFPP][TCNE]* M. Fardis, G. Diamantopoulos, G. Papavassiliou, K. Pokhodnya, Joel S. Miller, D. K. Rittenberg and C. Christides Physical Review B **66**, 064422 (2002).
20. 1*H NMR investigation of the spin dynamics of the spin-frustrated trinuclear Fe cluster (NH4)[Fe3(μ3-OH)(H2L)3(HL)3] (H3L=orotic acid)* M. Fardis, G. Diamantopoulos, M. Karayianni, G. Papavassiliou, V. Tangoulis, and A. Konsta Physical Review B **65**, 014412 (2002).
21. *Direct Observation of Electron Spin Density on TDAE Cations in the Ferromagnetic State of Solid TDAE-C60* Y. Deligiannakis, G. Papavassiliou, M. Fardis, G. Diamantopoulos, F. Milia, C. Christides, K. I. Pokhodnia, and V. Barchuk Physical Review Letters **83**, 1435-1438 (1999).

**Book Chapters**

1. *Magnetically Induced Hyperthermia for Biomedical Applications*, M. Fardis, I. Rabias, G. Diamantopoulos, E. Karakosta, D. Tsitrouli, V. Tzitzios, G. Papavassiliou Chapter 7 in *Nanobiomaterial: Development and Applications* 2013 by **CRC Press**, Taylor & Francis.
2. *Elementary excitations in magnetic nanoparticles probed with 57FeNuclear Magnetic Resonance and Mössbauer spectroscopy* M. Fardis, A. P. Douvalis, E.Karakosta, G. Diamantopoulos, T. Bakas, G. Papavassiliou Chapter 4 in *Magnetic Nanoparticle Assemblies* edited by K. Trohidou, 2015 by Taylor & Francis Group, LLC .

**Publications in conferences**

1. *Geochemical Study Of The Geothermal Field Of Nigrita*, Greece, Diamantopoulos G., Poutoukis D., Raco B., Karalis P., Arvanitis A. and Dotsika E., Proceedings of the International Workshop on Environmental Management, Science and Engineering - Volume 1: IWEMSE, ISBN 978-989-758-344-5, pages 221-227. DOI: 10.5220/0007559102210227, 2018.
2. *Hydro Chemical Assessment Of Edipsos Geothermal Area, Greece*, Diamantopoulos G., Dotsika E. Proceedings of the International Workshop on Environmental Management, Science and Engineering - Volume 1: IWEMSE, ISBN 978-989-758-344-5, pages 253-259. DOI: 10.5220/0007559502530259, 2018.
3. *Isotopic model for detecting original wine product*. P. Karalis, G. Diamantopoulos, A.E. Poutouki, E. Dotsika, 15th International Conference on Environmental Science and Technology, CEST 2017, Rhodes, Greece, 31 August to 2 September 2017.
4. *NMR and MRI analysis of rock core samples from oil wells,* M.S. Katsiotis, J. A. Gomes, M. Fardis, E. Karakosta, T. Maris, G. Diamantopoulos, and G. PapavassiliouEUROMAR2013, Magnetic Resonance Conference and Specialized Colloque AMPERE: "Advances in Solid State Broadband Magnetic Resonance", 30th June - 5th July Hersonissos, Crete, Greece (2013).
5. *Investigations into assessing oil well drilling fluid properties by using 1H NMR,* P. Arkoudeas, L. Lagkaditi, V. C. Kelessidis, A. Gupta, M. Fardis, E. Karakosta, G. Diamantopoulos, and G. PapavassiliouEUROMAR2013, Magnetic Resonance Conference and Specialized Colloque AMPERE: "Advances in Solid State Broadband Magnetic Resonance", 30th June - 5th July Hersonissos, Crete, Greece (2013).
6. *NMR studies on nanocatalysts for the petroleum industry,* M. Fardis, M. S. Katsiotis, S. M. Alhassan, E. Karakosta, G. Diamantopoulos, N. Boukos, V. Tzitzios, G. PapavassiliouEUROMAR2013, Magnetic Resonance Conference and Specialized Colloque AMPERE: "Advances in Solid State Broadband Magnetic Resonance", 30th June - 5th July Hersonissos, Crete, Greece (2013).
7. *In situ Monitoring of Cement Gel Growth Dynamics. The Use of a Miniaturized Permanent Halbach Magnet for Precise 1H NMR Studies*, E. Karakosta, G. Diamantopoulos, M. S. Katsiotis, M. Fardis, D. Panagiotaras, and G. Papavassiliou XXV Panhellenic Conference on Solid State Physics and Materials Science, Thessaloniki, 20-23 September 2009, Greece.
8. *In vitro and in vivo efficient magnetic heating with polymer-dressed Fe2O3 nanoparticles* D. Tsitrouli, I. Rabias, E. Karakosta, Th. Kehagias, M. Fardis, G. Diamantopoulos, D.Stamopoulos, and G. Papavassiliou, XXV Panhellenic Conference on Solid State Physics and Materials Science, Thessaloniki, 20-23 September 2009, Greece.
9. *Monodispersed colloidal maghemite nanoparticles as conductors of magnetic hyperthermia for targeted dissolution of brain tumours* , D. Tsitrouli, I. Rabias, N. Diamantis, G. Diamantopoulos, G. [Drossopoulou,](mailto:gdross@bio.demokritos.gr) E. Kotsopulou, E Karakosta, T. Maris, G. Panayotou, E. Tsilibary and G. Papavassiliou, FEBS JOURNAL, 275 (2008).

**Participation to National/International conferences.**

1. *15th International Conference on Environmental Science and Technology*, CEST 2017, Rhodes, Greece, 31 August to 2 September 2017.
2. *Nanotech Dubai 2016 & GAMS 2016,* 5-7 December 2016, Dubai, UAE,
3. *ABS Seminar, Technology challenges: What happens next,* 21 May 2013, SS HELLAS LIBERTY, Akti Vasiliadi, Piraeus Port.
4. *EUROMAR 2013, Magnetic Resonance Conference and Specialized Collogue AMPERE: "Advances in Solid State Broadband Magnetic Resonance"*, 30th June - 5th July Hersonissos, Crete, Greece (2013).
5. *Fifth North America-Greece-Cyprus Workshop on Paramagnetic Materials, NAGC 2013* Limassol, Cyprus, May 22-26, 2013.Title: NMR core analysis and imaging of reservoir rock samples
6. *Fourth North America-Greece-Cyprus Workshop on Paramagnetic Materials (NAGC 2011),* Patras Greece - June 14-18, 2011.
7. *WWMR2010, Joint EUROMAR 2010 and 17th ISMAR Conference,* Florence, 4-9 July, 2010, Italy.
8. *7th National Conference of Non-Destructive Testing of the* ***HELLENIC SOCIETY FOR NON-DESTRUCTIVE TESTING (H.S.N.T.)*,** **Athens 15-17 October 2010,**
9. *XXV Panhellenic Conference on Solid State Physics and Materials Science*,Thessaloniki, 20-23 September 2009, Greece.
10. *NAGC 2009, Third North America – Greece – Cyprus Workshop on Paramagnetic Materials* Protaras, Paralimni, Cyprus, 15 – 19 June 2009.
11. *4ο Panhellenic Symposioum of Porous Materials*, Patra, 22-23 October 2009.
12. 33rd FEBS Congress and 11th IUBMB Conference: *Biochemistry of Cell Regulation*, Athens, 28 June – 3 July 2008, Greece.
13. Workshop on *“Current trends in nanoscopic and mesoscopic magnetism”* (Santorini Greece 6-9 September 2006).
14. *1st PanHellenic Conference on Construction Materials and Elements*, May 2008
15. *88th International Bunsen-Discussion Meeting Magnetic Colloidal Fluids: Preparation, Characterization, Physical Properties and Applications*, June 2005
16. *PanHellenic Conference of Solid State Physics* 1998-99, 1999-00, 2000-01.
17. “*Ampere Summer School-Applications of Magnetic Resonance in Novel Materials*”, (Nafplion, Greece, 3-9 September. 2000).
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