**CV MICHAEL FARDIS**

**PERSONAL INFORMATION**

Family name, First name: FARDIS, MICHAEL

Date of birth: February 2, 1960

Nationality: Greek

URL for web site: <http://inn.demokritos.gr/research_group/ssNMR/>

* **EDUCATION**

10.1984 - 11.1990PhD in Physics**,** Royal Holloway and Bedford New College, University of London, United Kingdom.

10.1983 - 10.1984 M.Sc. in Solid State Physics, Bedford College, University of London, UK.

09.1978 - 03.1983 B.Sc. in Physics, School of Physics, Faculty of Sciences, University of Thessaloniki, Greece

* **CURRENT POSITION(S)**

2012 – present **Research Director,** Solid State Nuclear Magnetic Resonance Laboratory, Institute of Nanoscience & Nanotechnology, NCSR “Demokritos”, Greece

2022 – present **Head of the Solid State NMR Laboratory** of the Institute of Nanoscience & Nanotechnology, NCSR “Demokritos”, Greece

* **PREVIOUS POSITIONS**

01.2008 –2012 **Research scientist** at the Solid State Nuclear Magnetic Resonance Laboratory, Institute of Advanced Materials Physicochemical Processes Nanotechnology and Microsystems (IAMPPNM), NCSR “Demokritos”, Greece

2004 – 2007 **Research scientist** at the Solid State Nuclear Magnetic Resonance Laboratory, Institute of Materials Science, NCSR “Demokritos”, Greece

2000 – 2004 **Research fellow** at the Solid State Nuclear Magnetic Resonance Laboratory, Institute of Materials Science, NCSR “Demokritos”, Greece

1991 – 1999 **Research Associate (on contract)** at the Solid State Nuclear Magnetic Resonance Laboratory, Institute of Materials Science, NCSR “Demokritos”, Greece

* **PUBLICATIONS**

**89** Publications in International Peer Reviewed Journals, among them many publications in high profile journals, such as *Phys. Rev. Letters*, *Nature Communications*, *npj Quantum Materials*, *npg Asia Materials of Nature*, *Angewandte Chemie*, *ACS Nano*, and a great number of *Phys. Rev. B* articles.

h-Index: **22** (Scopus February 2022).

* **Research monographs – Book chapters**
* “Elementary Excitations in Magnetic Nanoparticles probed with 57Fe Nuclear Magnetic Resonance and Mössbauer Spectroscopy”, **Fardis M.**, Douvalis, A.P., Diamantopoulos, G., Rabias, I., Bakas, T., Kim, H.J., Papavassiliou, G., Magnetic Nanoparticle Assemblies, Edited by K. N. Trohidou, Pan Stanford Publishing Pte. Ltd., Ch.4, pp. 129-157, 2014, ISBN:978-981441197-4;978-981441196-7.
* “Magnetically Induced Hyperthermia for Biomedical Applications, Nanobiomaterials: Development and Applications”, **Fardis M.**, Rabias I., Diamantopoulos G., Karakosta E., Tsitrouli D., Tzitzios V., Papavassiliou G., Series: Advances in Materials Science and Engineering, Edited by Dong Kee Yi & Georgia C. Papaefthymiou-Davis, CRC Taylor and Francis Group, London, Ch. 7, pp. 261-284, 2013.
  + - * **Granted patents**
* “Fluid flow monitoring in Hydrocarbon Reservoirs using Magnetic Nanoparticles” AlHassan, S., Tzitzios, V., Papavassiliou, G., Karagianni, M., Anastasiou, A., Orfanides, S., **Fardis, M**., Gournis, D., Subrati, M., International Application No PCT/GR2019/000092 (at finalization).
* “EDTA-type cyclodextrin derivatives for metal ion binding and their complexes with gadolinium(IΙI) for use in magnetic resonance imaging ” Yannakopoulou, K.; Mavridis, I. M.; **Fardis, M**.; Maffeo, D.; Lampropoulou, M., Greek Patent No 1006924, 2010 (priority date 28 Sept. 2009).
* **SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS**

1992 – present Supervisor – co-supervisor of **11** doctoral theses and **4** bachelor's theses.

Many of the researchers he has co-supervised currently hold important positions in academia and industry.

* **teaching activities**

2000 – present Laboratory Course Instructor - “Nuclear Magnetic Resonance Spectroscopy” graduate and post-graduate courses of SEMFE School of the National Technical University of Athens, Greece.

July 2012 *Nuclear Magnetic Resonance (NMR),* Summer School, NCSR “Demokritos”, Greece.

July 2006 *Magnetic Nanoparticles for Biomedical Applications* Summer School, NCSR “Demokritos”, Greece

July 2005 *NMR Spectroscopy: Applications to Materials and Medicine* Summer School, NCSR “Demokritos”, Greece.

June 26 – July 7, 2006 *Experimental Tecniques for Magnetic Characterization of Ferrofluids,* Nano2Life International Summer School on Methods in Micro – Nanotechnology, NCSR “Demokritos”, Greece.

2005 – 2014 Member of the examination Committee for the selection of postgraduate scholars at the Institute of Materials Science of NCSR Demokritos.

* **MEMBERSΗIPS & reviewing activities**

Refereeing with the peer review system in the following international scientific journals:

Physical Review Letters, Physical Review B, Journal of Materials Science, Journal of Hazardous Materials

* **FELLOWSHIPS and AWARDS**

2000 - 2004 NCSR “DEMOKRITOS”, Greece.

1998 - 1999 State Scholarships Foundation (ΙΚΥ).

1986 - 1987 Alexander S. Onassis Public Benefit Foundation.

1983 – 1986 Ioannis D. Pateras Foundation , 1983-1986.

1980 – 1981 and 1979 – 1980 State Scholarships Foundation (ΙΚΥ), Physics Dpt. AUTH