

MARY PAPARRIGOPOYLOY KAMARIOTAKI



ASSOCIATE PROFESSOR

LAB OF INORGANIC DEPARTMENT OF CHEMISTRY, NATIONAL AND
KAPODISTRIAN UNIVERSITY OF ATHENS

Email: kamariotaki@chem.uoa.gr

ORCID: 0000-0003-2757-6598

Google scholar: 6h2H3gYAAAA (citations,651 h-index12)

WEB OF Science: HGA-1700-2022

Tel.: 6977451353

1969 B.Scr Department Chemistry NKUA

1983 PhD in Chemistry Department of Chemistry NKUA Title Synthesis , Spectroscopic studies oxalate and tartrate complexes Niobium (III) in aqueous solution

RESEARCH FIELDS

- Synthesis of Transition Metal Complexes Fe, V, Nb, ,Zn ,Cu, Ni The Aim of the work is to Investigate the Electronic, Magnetic and Biological Properties of the Complexes
- "Use of a New Polymer gel for Magnetic Resonance Imaging (MRI) radiation dosimetry
- Chemistry Education

EDUCATIONAL EXPERIENCE

UNDERGRADUATE COURSES

- General Chemistry Department of Physics. 1988-2005
- General Chemistry Department of Geology 2006-2010
- Laboratory of General Chemistry I Department of Chemistry.1988-2010
- Laboratory of Inorganic Chemistry Department of Chemistry. 1988-2010
- Laboratory of General Chemistry I Department of of Geology 1988-2010
- Laboratory of General Chemistry I Department of Physics 1988-2010
- Laboratory of General Chemistry I Department of Biology 1988-2010
- *Teacher General and Inorganic Chemistry Hellenic Open University (HOU_) Patra 1999-2010*

GRADUATE COURSES

- Bioinorganic Chemistry
- Biocatalysis
- General Chemistry for the students of the Chemical Education and New Educational Technologies
- Laboratory Experiments for the students of the Chemical Education and New Educational Technologies
- Chemical Technology and chemistry in every day life

DISCRIMINATIONS / SCHOLARSHIPS

- Scholarships by the Greek State Scholarships Foundation (IKY) in Undergraduate studies

RESEARCH GRANTS

- 1997 Member of Research Group Title: " Chemical Education and New Educational Technology" An Inter-University Program for Graduate studies PROJECT EPEAEK Coordinator : Chryssa Tzoygraki
- 1998 Participation of Research Group Title: Experiment in Chemistry Teaching ΣΕΠΠΕ Ministry Education Greek" (Coordinator : Andreas Tsatsas)
- 1999 Collaboration of research Group Title: " Development materials simulation tissues to the biophysics

NMR parameters Application in MRI imaging and radiation dosimetry.” Source: General Secretariat for Research and Technology of Ministry Education Greek (PENED 99(K A 70/3/5071))

EDITOR OF BOOKS AND SPECIAL VOLUMES

Experimental in General and Inorganic Chemistry (Stamoulis 2005)

ADDITIONAL INFORMATION

- Presentations at conferences: **101**
- Supervision of graduate students: 25
- Supervision of undergraduate students 45
- Reviewer Chemistry Book Secondary Education (C class} PI - Ministry Education Greek 2007
- Reviewer Chemistry Book Secondary Education “Chemistry Experiments” Ministry Education Greek 1985
- Reviewer Chemistry Book Secondary Education “ A Approach Education teaching in Organic Chemistry Education Project (ΣΕΠΠΕ) PJ-Ministry Education Greek 2004

SELECTED PUBLICATIONS (link OF PUBLICATIONS)

- CV and NMR study on the reaction of Mo(VI) with 3,4 dihydroxybenzoic acid and ascorbic acid in aqueous solution
C Litos, V Aletras , D Hatzipanayioti , M Kamariotaki , A Karaliota *Inorg. Chim. Acta*, **360**, 2321-2330 (2007)
- Theoretical and spectroscopic investigation the oxidation and degradation of protocatechinic acid
D Hatzipanayioti,A Karaliota, M Kamariotaki ,V Aletras, P Petropouleas, *Chemical Physics* **325** 341-350 (2006)
- Electrospray mass spectra studies on the Molybdenum complexes with 2,3 and 2,5 dihydroxy benzoic acid as well as of their degradation products.
A. Karaliota, V. Aletras, D. Hatjipanayioti, M. Kamariotaki, M. Potamianou, *Journal of Mass Spectrometry*, **37**, 760-763 (2002)
- A new polymer gel for magnetic resonance imaging (MRI) radiation dosimetry. 16.
E.Pappas, T.Maris, A.Angelopoulos, M.Paparigopoulou, L.Sakeliou, P.Sandilos, S.Voyiatzi, L.Vlachos, *Phys. Med. Biol.* **44**, 2677-2684, (1999)
- Narrow stereotactic beam profile measurements using N-Vinyl-pyrrolidone based polymer gels and magnetic Resonance Imaging. MRI
E.Pappas, I.Seimenis, A.Angelopoulos, P.Georgolopoulou, M.Kamariotaki -Paparigopoulou, T.Maris, L.Sakeliou, P.Sandilos, L.Vlachos, *Phys. Med. Biol.* **46**, 783-797 (2001)
- Preparation and characterization of the seven coordination Cadmium(II) complex $[Cd (3,4 H_2dhb)_2(H_2O)_3]HCl(3,4H_3dhb)-2,5H_2O$ The first structural determination of a complex containing the 3,4 dihydroxybenzoato (-1) ligand.
V. Aletras, N. Hadjiliadis, D. Stabaki, A. Karaliota, M. Kamariotaki, J. Butler, J. Plakatouras and S. Perlepes, *Polyhedron* **16**, 1399-1402 (1997)
- Can we assess pupils’ science knowledge with animated cartoons?
Konstantina Dalakosta, Mary Paparrigopoulou-Kamariotaki, Evagelia Pavlatou, *Procedia Social and Behavioral Sciences* **15** 3272-3276 (2011)
- Multimedia application with animated cartoons for teaching science in elementary education
K Dalacosta,M Paparrigopoulou- Kamariotaki, J Palyvos , N. Spyrelis , *Computers and Education* **52(4)** 741-748 (2009) .

- Molybdenum catecholes as models for Mo in Biological systems I. Synthesis and spectroscopic study on Mo complexes with 3,4 dihydroxy benzoic and 3,4 dihydroxy phenylacetic acid.
Karaliota, M. Kamariotaki, D. Hatjipanayioti, V. Aletras, *Journal of Inorganic Biochemistry* **69**, 79-90 (1998)
- Reaction of Ni (II) with 2,3 and 3,4 dihydroxybenzoic acid and spectroscopic study of the resulting complexes.
A.Karaliota, M. Kamariotaki, D. Hatjipanayioti, V. Aletras, N. Hadjiliadis, *Inorg. Chim. Acta*, **312**, 151-162 (2001)