

# CURRICULUM VITAE

## 1. Surname, First Name(s). Titles

FALARAS, Polycarpos  
Research Director, Ph.D.



## 2. Affiliation and Official Address

Institute of Advanced Materials, Physicochemical Processes, Nanotechnology and Microsystems  
NCSR DEMOKRITOS  
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## 3. Date and Place of Birth. Family:

18 October 1960, Karditsa, Greece. Married to Fotini Papadimitriou, 3 children

## 4. Education (dates, degrees, universities):

**1978-82** Dipl. in Physics, University of Thessaloniki, Greece, Excellent (8.86/10);  
**1982-83** DEA Electrochemistry, Univ. Pierre et Marie Curie, Paris, France (Bien);  
**1983-86** Ph.D. in Chemistry, Univ. Pierre et Marie Curie, Paris, France, (Tres Honorable);

## 5. Career/Employment (dates, positions, employers):

**1982-86** Research assistant, Electrochromic materials, "Physique des Liquides et Electrochimie", CNRS, Paris, France;  
**1986-88** Research Associate, Intercalation, Physics Dept, University of Thessaloniki, Greece;  
**1989-95** Postdoctoral Researcher, Photocatalytic water splitting, Institute of Physical Chemistry, NCSR Demokritos, Athens, Greece;  
**1993-99** Professor, Teaching Electrochemistry, General Dept. of Physics, Chemistry and Materials Technology, Technological Education Department of Piraeus, Greece;  
**1995-98** Researcher (grade C), Dye-sensitization, Clays, Modified electrodes, Institute of Physical Chemistry, NCSR Demokritos, Athens, Greece;  
**99-2003** Senior Research Scientist, Solar Cells, Photocatalysis, Thin films, Transition metal complexes, Institute of Physical Chemistry, NCSR Demokritos, Athens, Greece;  
**2003-** Research Director, Solar Cells, Photocatalysis, Thin films, Transition metal complexes, Institute of Physical Chemistry, NCSR Demokritos, Athens, Greece;  
**2006-** Hellenic Open University, Department of Physical Sciences and Technology, Teaching of Physical Chemistry;  
**2007-12** Director of the Institute of Physical Chemistry, NCSR Demokritos, Athens, Greece;

## 6. Biography

Dr. Polycarpos Falaras was born in Karditsa, Greece (1960). Following his basic studies in Physics (grade excellent, 8.86/10) at the Aristotle University of Thessaloniki (Greece), Dr. Falaras joined the Physique des Liquides et Electrochimie Laboratory/CNRS/University Pierre et Marie Curie (Paris VI-France), where he received his DEA in Electrochemistry (1983) and Ph.D. in Chemistry (1986, Tres Honorable). In 1989 he entered the Institute of Physical Chemistry at the National Center for Scientific Research 'Demokritos' in Athens (Greece), where he is still working as a Research Director, leading a group of 16 people (among them one senior researcher, one assistant professor and two University lecturers). He disposes strong expertise in Research Management, he has been the Director of the Institute of Physical Chemistry at NCSR Demokritos (2007-2012), member of the board of Directors of NCSR Demokritos (2004-2012), member of the board of Directors of EBETAM S.A., member of the Scientific Council of the National Center of Documentation (Greece, 2006-2010 and 2014-), member of the Management Committee in Cost Chemistry Actions D14, D35, and MP1302, National

representative to ESFRI and expert to EFSA, Member of the Council of T.E.I. of Western Greece.

### **7. Research Interests**

Nanotechnology driven light induced processes (photo-induced electron transfer) for environmental protection and solar energy conversion; TiO<sub>2</sub> photocatalysis: photocatalytic destruction of pollutants (water purification, air cleaning), photoinduced superhydrophobicity, self-cleaning, photocatalytic reactors; photocatalytic construction materials; Dye-sensitized solar cells: large band-gap semiconductors (powders, thin films), Ru(II) molecular dyes, quantum dots, solid state redox electrolytes; ionic liquids; zeolite imidazolite frameworks (ZIFs); Perovskites; Electrochromism; Clay modified electrodes; CO<sub>2</sub> capture and conversion; Electrochemical Impedance Spectroscopy; Raman spectroscopy.

### **8. Research Achievements**

Dr. Falaras has exceptional performance indicators: *h*-index 36, >4900 citations (Sopus), 7 patents (2 European, 5 Greek), 2 monographs, 12 book chapters, 184 publications in international refereed journals of high impact factor, more than 270 proceedings/abstracts presented at international and national conferences). He disposes high experience in the implementation of EU proposals, being the coordinator and/or scientific leader of the Demokritos team in 11 European (FP6: Titanotubes and FP7: Clean Water and SANS, IOLICAP, DESTINY, COST Chemistry actions D14 and D35,...) and 31 Greek projects (ARISTEIA, Thales,...). Dr. Falaras is a member of the Editorial board in five (5) International Journals as well as reviewer in more than 80 International journals. He and has supervised/is supervising the work 20 PhD students and several post-docs. He has taught Electrochemistry (1993-1999) at the General Department of Physics, Chemistry and Materials Technology/Faculty of Technological Applications/TEI Piraeus, is teaching at the Hellenic Open University (Physical Chemistry-Undergraduate Programme/2006-today, Catalysis and Environmental Protection-Master Programme/2012-2013) and serves regularly as expert evaluator and reviewer in EU programmes. He has given more than 60 lectures in International/National conferences, seminars and workshops, has visited (including short stays) many Labs/Universities/Research Centers abroad and has established close and fruitful collaborations\* with well-known research teams around the world (including in USA, UK, Germany, Italy, France, Czech Republic, Spain, Portugal, Switzerland,...).

#### **\*International Cooperations**

M. Grätzel (EPFL Lausanne, Switzerland), H. Snaith (Oxford, UK), G. Tulloch (Dyesol, Australia and Greatcell, Switzerland), U. Steiner (Cambridge, UK), D.D. Dionysiou (Cincinnati, USA), A. Silva (Porto, Portugal), J. Dona Rodriguez (Las Palmas, Spain), Hequet (Ecole des Mines Nantes, France), El-Marco (Czech Republic), Technion (Israel), A. Hagfeldt (Uppsala, Sweden), F. De Angelis (CNR, Italy), Osmosistemi (Italy), P. Schmuki (Erlangen, Germany), G. Thompon (Manchester, UK), L. Kavan (Prague, Czech Republic), V. Catalano (Nevada, USA), P. Potvin (Toronto, Canada), Dr. A. Hugot-Le Goff (CNRS-Paris, France), P. Tisnes (Toulouse, France), Z. Picramenou (Birmingham, UK), A.C. Filippou (Bonn, Germany), D. Andreeva (Sofia, Bulgarian

Academy of Sciences), A. Ibhandon (Hull University, UK), A. Walker (Bath, UK), J. Bisquert (Kastello, Spain), E. Kantilaftis (Osmosistemi, Fano, IT), IRT (London, UK).

### **9. Honours, Fellowships, Awards**

1979-82 Fellowship from IKY (Greek Scholarship Foundation)  
1982-85 Fellowship from the French Government  
1985-86 Fellowship from Alexander S. Onassis Foundation  
1997 Fellowship from the French Embassy in Greece for a month stay in France  
1999 Award for its research activity from the Empeirikeion Foundation  
2006 One member of Dr Falaras team elected at Academic Position<sup>1</sup>  
2008 Award for Best paper, Top-50 most cited article and most cited author<sup>2</sup>  
2010 Best poster presentation award in the 11<sup>th</sup> Pan-Hellenic Symposium of Catalysis  
2010 One paper (110)<sup>a</sup> in the Top 25 Hottest Articles of SciVerse Science Direct  
2010 Two members of Dr Falaras team elected at Academic Positions<sup>2</sup>  
2011 Two papers (117,124)<sup>a</sup> in the Top 25 Hottest Articles of SciVerse Science Direct  
2012 IUPAC Award in EuAsC2S-12, Corfu  
2012 Certificate of Merit for paper 528, ACS 243<sup>rd</sup> National Meeting, San Diego, California  
2012 Two papers (337, 139)<sup>a</sup> in the Top 25 Hottest Articles of SciVerse Science Direct  
2013 Award from Elsevier, TOP cited paper (110)<sup>a</sup> for 2010 and 2011  
2013 One paper (139)<sup>a</sup> in the first 5 highly ranked articles in Catalysis for Elsevier Journals  
2014 One member of Dr Falaras team moved to Oxford<sup>4</sup>  
2014 One paper (139)<sup>a</sup> first ranked in Chemical Engineering Applied Catalysis B: Environmental, January to December 2013 full year (ScienceDirect Top 25 for all of 2013).

<sup>1</sup>*Dr. Athanassios Philippopoulos, elected as Lecturer/Chemistry Department, University of Athens, Greece*

<sup>2</sup>*The paper of Dr. P. Falaras "Silver-modified titanium dioxide thin films for efficient photodegradation of methyl orange", Applied Catalysis B: Environmental, 42 (2003) 187-201, has been recognized as a Best Paper 2005-2008. It is among the "Top-50 most cited articles" published in Elsevier Catalysis journals 2003-2007 and the authors awarded to Most Cited Author 2003-2007. The award was celebrated during the 14<sup>th</sup> International Congress on Catalysis (ICC 2008) in Seoul, Korea.*

<sup>3</sup>*Dr Vlassis Likodimos, elected as Assistant Professor/Physics Department, University of Athens, Greece; Dr Thomas Stergiopoulos, elected as Lecturer/Chemistry Department, University of Thessaloniki, Greece*

<sup>a</sup>*in parenthesis, the paper number in the list of publications (see Annex I, below).*

<sup>4</sup>*Dr Thomas Stergiopoulos, obtained a two years Marie Curie individual fellowship for Oxford University (Photovoltaic and Optoelectronic Device Group), UK.*

**10. Ph-D supervision** (in parenthesis the year of attribution): A. Xagas (2000), F. Lezou (2002), I. Arabatzis (2004), T. Stergiopoulos (2006), E. Chatzivassiloglou (2007), A. Kontos (2009), G. Kantonis (2009), E. Rozi(2009), N. Alexaki(2009), A. Katsanaki (2012), G. Konti (2013), N. Lagopati (2013), N. Vaenas (2014).

### **11. Patents**

1. "Nanostructured titania for energy and environmental applications", 1005522/25-5-2007, OBI (Greek Patent Office).
2. "Multifunctional aqua pastes and nanostructured titania thin films", 1005523/25-5-2007, OBI (Greek Patent Office).
3. "Aqueous suspensions of titania and resulting nanostructured materials (films and powders) of titanium dioxide", 1005517/24-5-2007 , OBI (Greek Patent Office).
4. "Low-weight cementitious coverings and lime mortars with photoinduced depolluting and self-cleaning properties", 1006620/4-12-2009, OBI (Greek Patent Office).
5. "Modified nanostructured titania materials and methods of manufacture". International publication number: WO/2007/085911, International publication date: 02.08.2007, International filing date: 19.12.2006, International application number: PCT/IB2006/004163.
6. "Platelet Activating Factor (PAF) inhibitors with possible antitumor activity" 20090100210/9-04-2009, OBI (Greek Patent Office).
7. "Photocatalytic Purification Device", Application number EP10275076.7, July 2010, EP2409954, published on 25/01/2012.

## **12. Research projects / Funding**

|           |   |
|-----------|---|
| 1986-1988 | "Intercalation", Stimulation 152-0013-7 EU.   |
| 1990-1994 | "Pillared layered Structures PLS (Brite-Euram), EU.   |
| 1992-1994 | "Ion exchange in clays", Bilateral Cooperation Greece-France "PLATON".  |
| 1995-1997 | "Analytical applications with pillared clay electrodes", project 1123 PENED '95, GSRT   |
| 1998-1999 | " <i>Practical exercise of students</i> », Project No 667-EPEAK, Greek Ministry of Education  |
| 1999-2000 | "Photoelectrochemical conversion of solar energy", project Dimoerevna '99, NCSR.D.  |
| 1999-2000 | "Development of TiO <sub>2</sub> electrodes for solar cell, batteries and pollutant degradation", Bilateral Cooperation Greece-Czech Republic.  |
| 2000-2001 | "Influence de la nature du semiconducteur sur le fonctionnement et les performances des cellules solaires photovoltaïques sensibilisées", Bilateral Cooperation Greece-France "PLATON". |
| 1999-2001 | "New materials for photovoltaic applications", EPET II, Human Networks, GSRT.   |
| 1999-2001 | "Photocatalytic management of industrial wastes", EPET II, Human Networks, GSRT.  |
| 1999-2001 | "Development of innovative composite ceramic fuel cells", PENED '99, GSRT   |
| 2000-2001 | NATO project EST.CLG.976641 «Design and characterisation of new titania based catalysts for efficient photodegradation of organic pollutants».  |
| 2000-2002 | "DINYFE" Network, Bilateral Cooperation Greece-Cyprus.  |

- 1999-2005 "Structure and properties of oxide semiconductors modified by redox-active molecules, Formation of heterojunctions with novel organic electronic materials", COST Action D14- Functional molecular materials.
- 200-2002 "Biological evaluation of new polyoxometallates", Bilateral Cooperation Greece-Romania.
- 2002-2004 "Development of new materials for applications in solar cells", Bilateral Cooperation Greece-Germany.
- 2003-2004 NATO project EST.CLG. "Gold based catalysts on mesoporous titania and zirconia for environmental protection".
- 2003-2005 "Photocatalytic construction materials", 01 PRAXE 23, GSRT.
- 2003-2005 "Advanced oxidation methods for treatment of liquid wastes, Human Network, GSRT.
- 2004-2005 "Triple bonds to Si, Ge, Sn and Pb: Synthetic, Spectroscopic and Electrochemical Studies". IKYDA 2003, Greece-Germany.
- 2003-2009 "Greek seas environmental quality assessment labs network, Greek Ministry of Environment.
- 2002-2005 "Excellence in Research Institutes, project 1422/B1/3.3.1/362/2002 GSRT.
- 2004-2006 "Nano-titania catalysts for environmental applications", Bilateral Cooperation Greece-UK.
- 2004-2006 Supramolecular cyclodextrin Ru-complexes for nanocrystalline dye-sensitized solar cells", Bilateral Cooperation Greece-UK.
- 2004-2006 "Structure-properties model development in dithiolene complexes: Synthesis of compounds with pre-defined catalytic and photocatalytic properties, Pythagoras project, Greek Ministry of Education.
- 2005-2007 "Confrontation of pathological situations with combinational use of biomedical and nanotechnology methods", 2050-4/2 Competitiveness/Infrastructure-EPAN YPODOMON project, GSRT, Greek Minister of Development.
- 2005-2008 "Organic Solar Cells", project PENED 03EΔ 118, GSRT.
- 2005-2008 "Development of composite nanostructured titania materials" project PENED 03EΔ 963, GSRT.
- 2005-2008 "Analytical Techniques for Complete Control and Advanced Oxidation Processes for the removal of Organic Toxic Substances from Natural Waters and Processed Sewages", project PENED 03EΔ 926, GSRT.
- 2006-2008 "Innovative bioactive magnetic nanomaterials for diagnosis and follow-up of pathological situations with magnetic tomography", PEP Attikis, project ATT-25, GSRT.
- 2006-2009 OrgaPVNet – Coordination Action towards stable and low cost organic solar cell technologies and their application", FP6-Energy-CA.

- 2006-2009 "Ti-nanotubes", FP6-NMP-STREP, 300 K€.
- 2006-2011 CMST COST Action D35 From Molecules to Molecular Devices: Control of Electronic, Photonic, Magnetic and Spintronic Behaviour
- 2009-2012 "Clean Water-Water detoxification using innovative vi-nanocatalysts", FP7-ENV-NMP-2008-2 STREP, 580 K€, 2009-2012, Coordination of the project.
- 2010-2013 "SANS- Sensitizer Activated Nanostructured Solar Cells", FP7-NMP-2009 SMALL-3, 466 K€.
- 2011-1013 "IOLICAP- Novel ionic liquid and supported ionic liquid solvents for reversible capture of CO<sub>2</sub>", FP7-ENERGY-2011-1, Project number: 283077.
- 2011-2014 "DESTINY- Dye Sensitized solar cells with enhanced stability", FP7-PEOPLE-2012-ITN, Project number: 316494, 460K€.
- 2012-2016 "AdMatDSC-Advanced Materials for Highly Efficient Dye Seensitized Soalr Cells", ARISTEIA, GSRT, 350 K€. Coordination of the project.
- 2012-2015 "AOP-Nanomat-Development of Advanced Oxidation Processes Using Nanomaterials and Solar Light for the Removal of Organics, Endocrine Disruptors and Cyanotoxins from Water", THALES, GSRT, 60 K€.
- 2012-2015 "NANOMEZO – Materials of Advanced Nano-Architecture at the Mesoscale for Appllications in Energy and Enviroment", THALES, GSRT, 80 K€.
- 2012-2015 "NANOSOLCEL- Innovative Materials for Nanocrystalline Solar Cells", THALES, GSRT, 103 K€ .
- 2014-2015 "SolMeD- Desalination by Solar Powered Membrane Distillation: Material and Process Optimization", ARISTEIA, GSRT, 65 K€.
- 2014-2015 "Advanced materials and devices for energy collection and management", KRIPIS, GSRT, total budget 883.2 K€.

**13. Reviewer in more than 80 International journals, including:** ACS Catalysis, ACS Nano, Advanced Energy Materials, Advanced Functional Materials, Advanced Materials, Journal of Advanced Oxidation Technologies (AOTs), Angewante Chemie, Applied Catalysis A, Applied Catalysis B: Environmental, Applied Catalysis D, Applied Physics A, Applied Clay Science, Applied Surface Science, Bioorganic Chemistry and Applications, Carbon, Catalysis Today, Central European Journal of Chemistry, Chemical Engineering Communications, Chemical Engineering Journal, Chemical Physics Letters, Chemistry of Materials, Chemosphere, ChemPhysChem, ChemSusChem, Χημικά Χρονικά, Clays and Clay Minerals, Comptes Rendus Chimie, Coordination Chemistry Reviews, ECS Journal of Solid State Science and Technology, Electrochemical and Solid state Letters, Electrochemistry Communications, Electrochimica Acta, E-MRS 2013 Spring Meeting, Energy & Environmental Science, Environmental Chemistry Letters, Environmental Science & Technology, Global NEST Journal, Inorganic Chemistry Communications, International Journal of Electronics, International Journal of Environmental Analytical Chemistry, International Journal of Photoenergy, 15 IPS Conference, Journal de Physique IV, Journal of Catalysis, Journal of Chemical Technology and Biotechnology, Journal of Hazardous Materials, Journal of Materials Chemistry A, Journal of Materials Processing Technology, Journal of Materials Science, Journal of Molecular Catalysis A: Cemical, Journal of Nanomaterials, Journal of Photochemistry and Photobiology: A Chemistry, Journal of Physical Chemistry, Journal of Physics and Chemistry of Solids, Journal of Physics D: Applied Physics, Journal of Solar Energy Engineering, Journal of Solid State Chemistry, Journal of Solid State Electrochemistry, Journal of the American Chemical Society (JACS), Journal of the Electrochemical Society, Langmuir, Macromolecular Rapid Communications, Materials, Materials Chemistry and Physics, Materials Research Bulletin, Materials Science and Engineering B, Microelectronics Engineering, Nanoscale, Nanoscale Research Letters, Nanotechnology, Photochemical Photobiological Sciences, Polyhedron, Polymer International, Powder Technology, Proceedings of Europacat 7, physica staus solidi, Semiconductor Science and Technology, Separation Science and Technology, Solar Energy Engineering, Solar Energy Materials and Solar Cells, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, Surface and Coatings Technology, Surface Science, The open Crystallography Journal, The Open Inorganic Chemistry Journal, Thin Solid Films, Vibrational Spectroscopy, Water, Water Research.

**14. Memmer of the Editorial Board** in 5 International Journals: “The Open Inorganic Chemistry Journal”, “The Open Crystallography Journal, Bentham Open”, “The Journal of Advanced Oxidation Technologies”, “Advances in Nano Research”, “World Journal of Methodology (WJM)”.

**15. Guest Editor** in the “Special Issue of Journal of Hazardous Materials: Nanotechnologies for the treatment of Water, Air and Soil” (2011-2012).



## Annex I - PUBLICATIONS

### A. Monographs

- 1) "Oxydation anodique du tungstène - Electrochromisme". P. Falaras, Thèse DEA, Université Paris 6, 1983.
- 2) "Etude des Propriétés Electrochromes des Films Anodiques de Trioxyde de Tungstène". P. Falaras, Thèse de Doctorat, Université Paris 6, 1986.

### B. Book chapters

1. "Optical Techniques for the Study of Electrochromic Phenomena: Application of Raman Spectroscopy and OMA to the Coloration of Oxides and Polymer Films". P. Falaras, A. hugot-Le Goff, S. Joiret, Large - Area Chromogenics: Materials and Devices for Transmittance Control, Lampert C.M.; Granquist, C.G., eds., invited chapter, p. 447-470, SPIE, Optical Engineering Press, Bellingham, Washington, 1988.
2. "Noble Metal Nanoclusters Function on Titania Photocatalytic Surfaces", Arabatzis, I.M; Falaras, P. In: *Frontiers in Catalysis Research*, Book edited by Lawrence P. Bevy, Nova Science Publishers, Inc. NY, 2006, Chapter 5, pp 135-147(invited). ISBN: 1-59454-902-8.
3. Chapter "Green Nanotechnology: Development of Nanomaterials for Environmental and Energy Applications", Changseok Han, Joel Andersen, Suresh C. Pillai, Rachel Fagan, Polycarpos Falaras, J. Anthony Byrne, Patrick S. M. Dunlop, Hyeok Choi, Wenjun Jiang, Kevin O'Shea, and Dionysios D. Dionysiou, in *Sustainable Nanotechnology and the Environment: Advances and Achievements*, N. Shamim and V. K. Sharma (eds.), ACS Symposium Series, American Chemical Society, Washington, DC, USA, 2013, Chapter 12, pp. 201-229, DOI: 10.1021/bk-2013-1124.ch012.
4. "Nanotechnology: environmental applications", D. Dionysiou, M. Pelaez, C. Han, H. Choi, V. Sharma, A.J. Byrne, P.S.M. Dunlop, G. Romanos and P. Falaras, in *Encyclopedia of Environmetrics Second Edition* (ISBN 978-0-470-97388-2), A.-H. El-Shaarawi and W. Piegorisch (eds). John Wiley & Sons Ltd, Chichester, UK, (2012), pp. 1712-1726. DOI: 10.1002/9780470057339.vnn111.
5. "CHAPTER 5. The Green Synthesis and Environmental Applications of Nanomaterials", Changseok Han, Miguel Pelaez, Mallikarjuna N. Nadagouda, Sherine O. Obare, Polycarpos Falaras, Patrick S.M. Dunlop, J. Anthony Byrne, Hyeok Choi, Dionysios D. Dionysiou, in *Sustainable Preparation of Nanoparticles: Methods and Applications* (ISBN: 978-1-84973-546-9), Edited by Rafael Luque and Rajender S. Varma, *RSC Green Chemistry Book series, RSC Publishing, Cambridge, England, (2013)* pp. 106-143. DOI:10.1039/9781849735469-00106.

### C. Papers in International refereed journals

1. "Electron Microscopy and Raman Spectroscopy Studies of Anodically Formed Tungsten Oxide Films". P. Falaras, M. Froelicher, M. Froment, A. Hugot-Le Goff, *Microsc. Spectrosc. Electron.*, 9, 39-45, 1984.
2. "Caracterisation Structurale de Films Minces Formes par Oxydation Anodique de Titane et de Tungstene". Falaras P., Froment M., Hugot-Le Goff A., *Microsc. Spectrosc. Electron.*, 10, 4a-5a, 1985.
3. "Multichannel Optical Analysis for the Study of the Growth Kinetics of Films. Application to the Tungsten Oxidation", P. Falaras, A. Hugot-Le Goff, *Electrochemical Methods in Corrosion Research*-Edited by M. Duprat. *Materials Science Forum*, Vol. 8, 501-508, 1986.
4. "Thin WO<sub>3</sub> Anodic Films for Electrochrome Display Devices". P. Delichere, P. Falaras, A. Hugot-Le Goff, *Le Vide, Les Couches Minces*, No 235, 109-113, 1987.
5. "Electrochromism in Anodic WO<sub>3</sub> Films. I: Preparation and Physicochemical Properties of Films in the Virgin and Coloured States". P. Delichere, P. Falaras, M. Froment, A. Hugot-Le Goff, B. Agius, *Thin Solid Films*, 161, 35-46, 1988.
6. "Electrochromism in Anodic WO<sub>3</sub> Films. II: Optical and Electrochromic Properties of Coloured Hexagonal Films". P. Delichere, P. Falaras, A. Hugot-Le Goff, *Thin Solid Films*, 161, 47-58, 1988.
7. "WO<sub>3</sub> Anodic Films in Organic Medium for Electrochromic Display Devices". P. Delichere, P. Falaras, A. Hugot-Le Goff, *Solar Energy Materials*, 19, 323-333, 1989.
8. "Self Assembly of Ion-Paired Electron Transfer Centers in a Clay-Modified Electrode". D. Petridis, P. Falaras and T.J. Pinnavaia, *Inorganic Chemistry*, 31, 3530-3533, 1992.
9. "Incorporation of Anionic Species in Organoclay-Modified Electrodes". Polycarpos Falaras and Dimitris Petridis, *Journal Electroanal. Chem.*, 337, 229-239, 1992.
10. "Photocatalytic Splitting of Water". D. Katakis, C. Mitsopoulou, J. Konstantatos, E. Vrachnou and P. Falaras, *J. Photochem. and Photobiol., A: Chem.*, 68, 375-388, 1992.
11. "Dye Sensitization of TiO<sub>2</sub> Surfaces Studied by Raman Spectroscopy". P. Falaras, M. Gratzel, A. Hugot-Le Goff, M. Nazeeruddin, and E. Vrachnou, *J. Electrochem. Soc.*, 140, L92-L94, 1993.

12. "Synthesis, Cyclic Voltammetric and Electrospray Mass Spectrometric Studies of a series of Tris-substituted 1,2-Dithiolene Complexes of Tungsten and Molybdenum". P. Falaras, E. Vrachnou, C. Mitsopoulou, D. Argyropoulos, E. Lyris, N. Psaroudakis and D. Katakis, *Inorganic Chemistry*, 34, 4536-4542, 1995.
13. "Origin of New Bands in the Raman Spectra of Dye Monolayers Adsorbed on Nanocrystalline TiO<sub>2</sub>". A. Hugot-Le Goff, P. Falaras, *J. Electrochem. Soc.*, Vol. 142, No 3, L38-L41, 1995.
14. "Application of the electrospray mass spectrometric technique to molybdenum and tungsten dithiolenes". Dimitris Argyropoulos, Dimitris Katakis, Emmanuel Lyris, Christinne-Anne Mitsopoulou, Polycarpos Falaras and Ersi Vrachnou, *Chimika Chronika, New Series*, 26, 143, (1997).
15. "Synthesis and electrochemical characterization of dithiolene complexes of tungsten and molybdenum". P. Falaras, Ersi Vrachnou, C. Mitsopoulou, D. Argyropoulos, E. Lyris, N. Psaroudakis, and D. Katakis, *Chimika Chronika, New Series*, 26, 149, (1997).
16. "Synthesis and characterization of dichloro (2,2'-bipyridine-4,4'-dicarboxylate) bis (triphenyl phosphine) ruthenium (II) for efficient photosensitization of titanium oxide". P. Falaras, A. Xagas and A. Hugot-Le Goff, *New Journal of Chemistry*, 22, 557-558, (1998).
17. "Synergetic effect of carboxylic acid functional groups and fractal surface characteristics for efficient dye sensitization of titanium oxide". P. Falaras, *Solar energy materials and solar cells*, 53, 163-175, (1998).
18. "Electrochemical and spectroscopic studies of 2,3-dihydroxy-benzoic acid, its oxidation products and their interaction with manganese (II), in dimethyl sulfoxide solutions". D. Hatzipanayioti, A. Karaliota, M. Kamariotaki, A. Veneris, and P. Falaras, *Transition Metal Chemistry*, 23, 407-416, (1998).
19. "Electrochemical behavior of acid activated montmorillonite modified electrodes". P. Falaras and F. Lezou, *J. Electroanal. Chem.*, 455, 169-179 (1998).
20. "Fractal features of titanium oxide surfaces". A. Provata, P. Falaras, A. Xagas, *Chemical Physics Letters*, 297, 484-490 (1998)
21. "Cottonseed oil bleaching by acid activated montmorillonite". P. Falaras, I. Kovanis, F. Lezou, and G. Seiragakis, *Clay Minerals*, 34, 221-232 (1999).
22. "Preparation, fractal surface morphology and photocatalytic properties of TiO<sub>2</sub> films". A.P. Xagas, E. Androulaki, A. Hiskia and P. Falaras, *Thin Solid Films*, 357, 173-178 (1999).

23. "Raman resonance effect in a monolayer of polypyridyl ruthenium(II) complex adsorbed on nanocrystalline TiO<sub>2</sub> via phosphonated terpyridyl ligands", Anne Hugot-Le Goff, Suzanne Joiret, Polycarpos Falaras, J. Phys. Chem., B., 103, 9569-9575, (1999).
24. "Photocatalytically deposited silver nanoparticles on mesoporous TiO<sub>2</sub> films". Elias Stathatos, Panagiotis Lianos, Polycarpos, Falaras and A. Siokou, Langmuir, 16, 2398-2400 (2000).
25. "Surface modification and photosensitisation of TiO<sub>2</sub> nanocrystalline films with ascorbic acid". A.P. Xagas, M.C. Bernard, A. Hugot-Le Goff, N. Spyrellis<sup>c</sup>, Z. Loizos, and P. Falaras, J. Photochem. and Photobiol., A: Chem., 132, 115-120 (2000).
26. "Novel Mn-based Mesoporous Mixed Oxidic Solids". V.N. Stathopoulos, D.E. Petrakis, M. Hudson, P. Falaras, S. Neofytides and P.J. Pomonis, Studies in Surface Science and Catalysis, 128, 593-602 (2000).
27. "Characterization by Resonance Raman Spectroscopy of sol-gel TiO<sub>2</sub> films sensitized by the Ru(PPh<sub>3</sub>)<sub>2</sub>(dcbipy)Cl<sub>2</sub> complex for solar cells application". P. Falaras, A. Hugot-Le Goff, M.C. Bernard and A. Xagas, Solar energy materials and solar cells, 64, 167-184 (2000).
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#### D. Proceedings (International Conferences)

1. "Photodegradation of dye pollutants on anodized titanium dioxide nanotubes", M. Arfanis, N. Vaenas, A. Kontos, N.G Moustakas, P. Falaras, 8th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA8), 25-28 June 2014, Thessaloniki (GR), Poster presentation, BOOK OF ABSTRACTS, p. 109 and Proceedings 140, PC-2-27, 3 pages.
2. "Chemical Reduction of Graphene Oxide: Effect of Oxygenated Groups on the Photoactivity of Graphene-TiO<sub>2</sub> Composites", A.M.T. Silva, L.M. Pastrana-Martínez, S. Morales-Torres, V. Likodimos, P. Falaras, J.L. Figueiredo, J.L. Fari, 8th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA8), 25-28 June 2014, Thessaloniki (GR), Poster presentation, BOOK OF ABSTRACTS, p. 109 and CD of Proceedings 141, PC-2-28, 2 pages.
3. "Ceramic Photocatalytic Membranes", N.G. Moustakas, C.P. Athanasekou, A.M.T. Silva, L.M. Pastrana-Martínez, S. Morales-Torres, J. L. Figueiredo, J. L. Faria, G.E. Romanos, P. Falaras, 8th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA8), 25-28 June 2014, Thessaloniki (GR), Poster presentation, BOOK OF ABSTRACTS, p. 143 and CD of Proceedings 362, PC-3-26, 3 pages.
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