



## **Dimitrios Louloudakis**

### **Curriculum Vitae**

#### **Personal information**

- **First name:** Dimitrios
- **Last name:** Louloudakis
- **Date of birth:** 14 / 03/ 1984
- **Place of birth:** Rethymno
- **Address:** Panormo Rethymnou, 74057, Crete, Greece
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#### **Academic studies and scientific carrier**

- **2021 – 2022 secondary school teacher (substitute teacher),** Greece
- **2020 – 2021: Adjunct Professor (Non-permanent)** (Electric circuits - Electronics – Mechatronics) at School of Mechanical Engineering, Hellenic Mediterranean University
- **2020 – 2021 secondary school teacher (substitute teacher),** Greece
- **2020: Postdoctoral researcher** at Institute of Plasma Physics and Lasers (IPPL), Hellenic Mediterranean University (Development of a coherent X-ray multispectral microscopy system)
- **2019 – 2020: Adjunct Professor (Non-permanent)** (Electric circuits - Electronics – Mechatronics) at School of Mechanical Engineering, Hellenic Mediterranean University
- **2019 – 2020: Postdoctoral researcher** at Institute of Electronic Structure and Laser, FORTH, Greece (2D material deposition and measurements)
- **2017 – 2018: Postdoctoral researcher** at Nanoscience Research Laboratory and Chemical Sensor Laboratory, Faculty of Science, Chiang Mai University (Deposition and characterization of metal oxide coatings for new technological applications)
- **2017: Postdoctoral researcher** at Research School of Physics and Engineering, Australian National University (Development of GaO materials for light emitting devices)
- **2016-2017: Postdoctoral researcher** on “Smart electrochromic windows for energy saving applications”, TEI of Crete, (IKY Fellowships of Excellence for Postgraduate Studies in Greece – Siemens Program)
- **2012-2016: Ph.D. (Growth and study of novel chromic coatings and devices for "smart windows"),** Department of Physics, University of Crete, Heraklion, Crete, Greece
- **2006-2009: Master degree in Microelectronics – Optoelectronics** Department of Physics, University of Crete, Heraklion, Crete, Greece (01/10/2006 to 28/04/2009)
- **2001-2006: Bachelor degree in Physics,** Department of Physics, University of Crete, Heraklion, Crete, Greece

- **2008-2015: Laboratory assistant** in Physics Department of University of Crete, Mechanics & Thermodynamics, Electricity-magnetism, Optics

### Scientific Collaborations

- ✓ Instituto de Ciencia de Materiales de Sevilla (CSIC-USE), Sevilla, Spain
- ✓ Nanoscience Research Laboratory and Chemical Sensor Laboratory, Faculty of Science, Chiang Mai University, Thailand
- ✓ Research School of Physics and Engineering, Australian National University, Australia
- ✓ Tyndall National Institute, Ireland
- ✓ National Center for Scientific Research (NCSR) Demokritos, Greece
- ✓ National Technical University of Athens, Greece
- ✓ University of Crete, Greece
- ✓ Institute of Electronic Structure and Laser, FORTH, Greece
- ✓ Center of Materials Technology and Photonics, TEI of Crete, Greece

### Research Interests

Physics, Nanomaterials, Micro-Nano-Opto electronics, Metal oxides, Chromic coatings, Smart windows, 2D Materials, Chemical Vapor Deposition, Pulsed Laser Deposition, Pulsed Laser Deposition, Spark Method Deposition

### Publications in international scientific journals

(29 published paper, 473 citations, h index = 13, i10-index = 19)

1. Electrochromic response and porous structure of WO<sub>3</sub> cathode layers, Dimitrios Louloudakis, Kyriakos Mouratis, Jorge Gil-Rostra, Emmanouel Koudoumas, Rafael Alvarez, Alberto Palmero, Agustin R. Gonzalez-Elipe, *Electrochimica Acta* 376, 138049, **2021** DOI: 10.1016/j.electacta.2021.138049, <https://doi.org/10.1016/j.electacta.2021.138049>
2. Porous CuWO<sub>4</sub>/WO<sub>3</sub> composite films with improved electrochromic properties prepared by sparking method, W. Thongpan, D. Louloudakis, P. Pooseekheaw, T. Kumpika, E. Kantarak, W. Sroila A. Panthawan, W. Thongsuwan, P. Singjai, *Materials Letters* 257, 126747, **2019** DOI: 10.1016/j.matlet.2019.126747, <https://doi.org/10.1016/j.matlet.2019.126747>
3. Electrochromic properties of tungsten oxide films prepared by sparking method using external electric field, W. Thongpan, D. Louloudakis, P. Pooseekheaw, T. Kumpika, E. Kantarak, A. Panthawan, A. Tuantranont, W. Thongsuwan, P. Singjai, *Thin Solid Films* 682, 135–141, **2019** DOI: 10.1016/j.tsf.2019.04.010, <https://doi.org/10.1016/j.tsf.2019.04.010>
4. Novel Spark Method for Deposition of Metal Oxide Thin Films: Deposition of Hexagonal Tungsten Oxide, D. Louloudakis, W. Thongpan, K. Mouratis, E. Koudoumas, G. Kiriakidis, P. Singjai, *Physica Status Solidi (A)*, 1800513, **2019**, DOI: 10.1002/pssa.201800513, <https://doi.org/10.1002/pssa.201800513>
5. The effect of growth time and oxygen flow on the properties of electrochromic WO<sub>3</sub> thin layers grown by LPCVD, D. Louloudakis, D. Vernardou, G. Papadimitropoulos, D. Davazoglou, E. Koudoumas, *Advanced Materials Letters*, 9(8), 578-584, **2018**, DOI: 10.5185/amlett.2018.2013, <https://www.vbripress.com/aml/articles/details/1236>
6. Effect of deposition temperature on the electrochromic properties of WO<sub>3</sub> grown by LPCVD, D. Louloudakis, D. Vernardou, G. Papadimitropoulos, D. Davazoglou, E. Koudoumas, *Advanced Materials Letters*, 9(3), 192-198, **2018**, DOI: 10.5185/amlett.2018.1823, <https://www.vbripress.com/aml/articles/details/1171>
7. Atmospheric Pressure Chemical Vapor Deposition of Vanadium Oxides at 300° C for Li-Ion Batteries, D. Vernardou, D. Louloudakis, M. Rasoulis, M. Sueha, N.

- Katsarakis, E. Koudoumas, *Materials Focus* 6 (3), 314-318, **2017**, DOI: 10.1166/mat.2017.1401, <https://doi.org/10.1166/mat.2017.1401>
8. A study of the electromagnetic shielding mechanisms in the GHz frequency range of graphene based composite layers, E. Drakakis, E. Kymakis, G. Tzagkarakis, D. Louloudakis, M. Katharakis, G. Kenanakis, M. Sucheá, V. Tudose, E. Koudoumas, *Applied Surface Science* 398, 15-18, **2017**, DOI: 10.1016/j.apsusc.2016.12.030, <https://doi.org/10.1016/j.apsusc.2016.12.030>
  9. Oxygen source-oriented control of atmospheric pressure chemical vapor deposition of VO<sub>2</sub> for capacitive applications, D. Vernardou, A. Bei, D. Louloudakis, N. Katsarakis, E. Koudoumas, *Journal of Electrochemical Science and Engineering* 6 (2), 165-173, **2016**, DOI: 10.5599/jese.278, <http://dx.doi.org/10.5599/jese.278>
  10. INFLUENCE OF THICKNESS ON THE PROPERTIES OF TiO<sub>2</sub> AND Ti(Nb)O<sub>2</sub> THIN FILMS, M. Sucheá, M. Vamvakaki, D. Louloudakis, M. Sigalas, N. Katsarakis, D. Vernardou, E. Koudoumas, *Studia Universitatis Babes-Bolyai, Chemia* 61 (1), **2016**, [http://chem.ubbcluj.ro/~studiachemia/issues/chemia2016\\_1/10Suchea\\_et\\_al\\_97\\_106.pdf](http://chem.ubbcluj.ro/~studiachemia/issues/chemia2016_1/10Suchea_et_al_97_106.pdf)
  11. Atmospheric Pressure Chemical Vapor Deposition of amorphous tungsten doped vanadium dioxide for smart window applications, D. Louloudakis, D. Vernardou, E. Spanakis, M. Sucheá, G. Kenanakis, M. Pemble, K. Savvakis, N. Katsarakis, E. Koudoumas, G. Kiriakidis, *Advanced Materials Letters* 7(3), 192-196, **2016**, DOI: 10.5185/amlett.2016.6024, <https://www.vbripress.com/aml/articles/details/798>
  12. Functional properties of APCVD VO<sub>2</sub> layers, D. Vernardou, D. Louloudakis, E. Spanakis, N. Katsarakis, E. Koudoumas, *Int. J. Thin Fil. Sci. Tec.* 4 No 3, 187-191, **2015**, DOI: 10.12785/ijtfst/040305, <http://dx.doi.org/10.12785/ijtfst/040305>
  13. Effect of O<sub>2</sub> flow rate on the thermochromic performance of VO<sub>2</sub> coatings grown by atmospheric pressure CVD, D. Louloudakis, D. Vernardou, E. Spanakis, S. Dokianakis, M. Panagopoulou, G. Raptis, E. Aperathitis, G. Kiriakidis, N. Katsarakis, and E. Koudoumas, *Phys. Status Solidi C* 12, No.7, 856-860, **2015**, DOI: 10.1002/pssc.201510005, <https://doi.org/10.1002/pssc.201510005>
  14. Effect of O<sub>2</sub> flow rate on the electrochromic response of WO<sub>3</sub> grown by LPCVD, K. Psifis, D. Louloudakis, D. Vernardou, E. Spanakis, G. Papadimitropoulos, D. Davazoglou, N. Katsarakis, E. Koudoumas, *Phys. Status Solidi C* 12, No 7, 1011-1015, **2015**, DOI: 10.1002/pssc.201510004, <https://doi.org/10.1002/pssc.201510004>
  15. Electrochemical Performance of Vanadium Oxide Coatings Grown using Atmospheric Pressure CVD, D. Vernardou, M. Apostolopoulou, D. Louloudakis, N. Katsarakis, E. Koudoumas, *Chemical Vapor Deposition* 21, 369-374, **2015**, DOI: 10.1002/cvde.201507193, <https://doi.org/10.1002/cvde.201507193>
  16. Low pressure CVD of electrochromic WO<sub>3</sub> at 400°C, D. Vernardou, K. Psifis, D. Louloudakis, G. Papadimitropoulos, D. Davazoglou, N. Katsarakis, E. Koudoumas, *Journal of The Electrochemical Society* 162, 9, H579-H582, **2015**, DOI: 10.1149/2.0281509jes, <https://doi.org/10.1149/2.0281509jes>
  17. Amorphous Thermochromic VO<sub>2</sub> coatings grown by APCVD at Low Temperatures, D. Vernardou, D. Louloudakis, E. Spanakis, N. Katsarakis, E. Koudoumas, *Advanced Materials Letters* 6(7), 660-663, **2015**, DOI: 10.5185/amlett.2015.5810, <https://www.vbripress.com/aml/articles/details/686>
  18. Study of the pH effect on the properties of the hydrothermally grown V<sub>2</sub>O<sub>5</sub>, M. Apostolopoulou, D. Louloudakis, D. Vernardou, N. Katsarakis, E. Koudoumas, G. Kiriakidis, *Thin Solid Films* 594, 338-342, **2015**, DOI: 10.1016/j.tsf.2015.02.056, <https://doi.org/10.1016/j.tsf.2015.02.056>
  19. Electrochemical evaluation of vanadium pentoxide coatings grown by AACVD, D. Vernardou, D. Louloudakis, N. Katsarakis, E. Koudoumas, I.I. Kazadojev, S. O'Brien, M.E. Pemble, I. M. Povey, *Solar Energy Materials and Solar Cells* 143, 601-605, **2015**, DOI: 10.1016/j.solmat.2014.12.002, <https://doi.org/10.1016/j.solmat.2014.12.002>

20. One-pot synthesis of WO<sub>3</sub> structures at 95 °C using HCl, K. Christou, D. Louloudakis, D. Vernardou, N. Katsarakis, E. Koudoumas, *Journal of Sol-Gel Science and Technology* 73(3) 520-526, **2015**, DOI: 10.1007/s10971-014-3459-5, <https://doi.org/10.1007/s10971-014-3459-5>
21. Effect of solution chemistry on the characteristics of hydrothermally grown WO<sub>3</sub> for electroactive applications, K. Christou, D. Louloudakis, D. Vernardou, C. Savvakis, N. Katsarakis, E. Koudoumas, G. Kiriakidis, *Thin Solid Films* 594 B 333-337, **2015**, DOI: 10.1016/j.tsf.2015.03.045, <https://doi.org/10.1016/j.tsf.2015.03.045>
22. Hydrothermally grown β-V<sub>2</sub>O<sub>5</sub> electrode at 95°C, D. Vernardou, M. Apostolopoulou, D. Louloudakis, N. Katsarakis, E. Koudoumas, *Journal of Colloid and Interface Science* 424, 1-6, **2014**, DOI: 10.1016/j.jcis.2014.03.004, <https://doi.org/10.1016/j.jcis.2014.03.004>
23. Hydrothermal growth and characterization of shape-controlled NH<sub>4</sub>V<sub>3</sub>O<sub>8</sub>, D. Vernardou, M. Apostolopoulou, D. Louloudakis, N. Katsarakis, E. Koudoumas, *New Journal of Chemistry* 38(5), 2098-2104, **2014**, DOI: 10.1039/C3NJ01446K, <https://doi.org/10.1039/C3NJ01446K>
24. Electrochemical properties of opal-V<sub>6</sub>O<sub>13</sub> composites, D. Vernardou, M. Apostolopoulou, D. Louloudakis, E. Spanakis, N. Katsarakis, E. Koudoumas, J. McGrath, M.E. Pemble, *Journal of Alloys and Compounds* 586, 621-626, **2014**, DOI: 10.1016/j.jallcom.2013.10.151, <https://doi.org/10.1016/j.jallcom.2013.10.151>
25. Thermochromic amorphous VO<sub>2</sub> coatings grown by APCVD using a single-precursor, D. Vernardou, D. Louloudakis, E. Spanakis, N. Katsarakis, E. Koudoumas, *Solar Energy Materials and Solar Cells* 128, 36-40, **2014**, DOI: 10.1016/j.solmat.2014.04.033, <https://doi.org/10.1016/j.solmat.2014.04.033>
26. Electrochemical properties of Vanadium Oxide coating grown by hydrothermal synthesis on FTO substrates, D. Vernardou, D. Louloudakis, E. Spanakis, N. Katsarakis, E. Koudoumas, *New Journal of Chemistry* 38(5), 1959-1964, **2014**, DOI: 10.1039/C3NJ00931A, <https://doi.org/10.1039/C3NJ00931A>
27. Thermochromic Vanadium Oxide Coatings Grown by APCVD at Low Temperatures, D. Louloudakis, D. Vernardou, E. Spanakis, N. Katsarakis, E. Koudoumas, *Physics Procedia* 46, 137-141, **2013**, DOI: 10.1016/j.phpro.2013.07.055, <https://doi.org/10.1016/j.phpro.2013.07.055>
28. Electrochemical properties of vanadium oxide coatings grown by APCVD on glass substrates, D. Louloudakis, D. Vernardou, E. Spanakis, N. Katsarakis, E. Koudoumas, *Surface & Coating Technology* 230, 186-189, **2013**, DOI: 10.1016/j.surfcoat.2013.06.054, <https://doi.org/10.1016/j.surfcoat.2013.06.054>
29. Properties of strontium copper oxide (SCO) deposited by PLD using the 308nm laser and formation of SCO/Si heterostructures, D. Louloudakis, M. Varda, E. L. Papadopoulou, M. Kayambaki, K. Tsagaraki, V. Kambilafka, M. Modreanu, G. Huyberegtsand E. Aperathitis, *Physica Status Solidi A* 207, 1726-1730, **2010**, DOI: 10.1002/pssa.200983740, <https://doi.org/10.1002/pssa.200983740>

**Contributions to conferences** (International Conferences 19, Oral presentations 7, Poster presentations 26)

1. D. Louloudakis, K. Mouratis, J. Gil-Rostra, E. Koudoumas, A. R. Gonzalez-Elipe, Effect of the porosity on the electrochromic response of WO<sub>3</sub> grown using magnetron sputtering, 71th Annual meeting of the international society of electrochemistry, Online, Belgrade, Serbia, 31 August – 4 September, 2020, <https://annual71.ise-online.org/>
2. D. Louloudakis, H. Tan, G. Kiriakidis, C. Jagadish, Effect of deposition temperature and amount of Zn on Gallium oxide coatings grown using a Pulsed Laser Deposition system, 7<sup>th</sup> IS-TCMs, Chania, Crete, Greece, 14-19 October, **2018**, <http://www.tcm2018.org/>

3. W. Thongpan, D. Louloudakis, P. Singjai, Electrochromic Properties of WO<sub>3</sub> Films Prepared by Sparking Method using External Electric Field, 7th IS-TCMs, Chania, Crete, Greece, 14-19 October, **2018**, <http://www.tcm2018.org/>
4. D. Louloudakis, J. Gil-Rostra, K. Mouratis, D. Vernardou, E. Koudoumas, A. R. Gonzalez-Elipse, Effect of the porosity on the electrochromic response of WO<sub>3</sub> grown using magnetron sputtering, 12<sup>th</sup> ICPAM, Heraklion, Crete, Greece, 22-28 September, **2018**, <https://www.icpam.ro/>
5. D. Louloudakis, W. Thongpan, K. Mouratis, E. Koudoumas, G. Kiriakidis, P. Singjai, Effect of doping on deposition of WO<sub>3</sub> grown using a simple spark method, EMRS 2018, Strasbourg, France, 17-22 June, **2018**, <https://www.european-mrs.com/meetings/2018-spring-meeting>
6. D. Louloudakis, D. Vernardou, G. Papadimitropoulos, D. Davazoglou, E. Koudoumas, Effect of preferred orientation on the electrochromic properties of tungsten oxide coatings grown by a LPCVD system, EUROMAT 2017, Thessaloniki, Greece, 17-22 September, **2017**, <http://euromat2017.fems.eu/>
7. D. Louloudakis, D. Vernardou, E. Spanakis, N. Katsarakis, E. Koudoumas, G. Kiriakidis, Growth and study of thermochromic VO<sub>2</sub> coatings using an APCVD system: a review on the effect of the deposition parameters, IS-TCMs 2016, Chania, Crete, Greece, 9-13 October, **2016**, <http://www.tcm2016.org/welcome.html>
8. D. Louloudakis, D. Vernardou, E. Spanakis, M. Panagopoulou, G. Raptis, G. Kiriakidis, N. Katsarakis, E. Koudoumas, Effect of O<sub>2</sub> flow rate and deposition period on the thermochromic performance of VO<sub>2</sub> coatings grown by atmospheric pressure CVD, Eurocvd 20, Sempach, Switzerland, 13-17 July, **2015**, <https://eurocvd20.empa.ch/>
9. K. Psifis, D. Louloudakis, D. Vernardou, E. Spanakis, G. Papadimitropoulos, D. Davazoglou, N. Katsarakis, E. Koudoumas, Effect of O<sub>2</sub> flow rate and temperature on the electrochromic response of WO<sub>3</sub>, Eurocvd 20, Sempach, Switzerland, 13-17 July, **2015**, <https://eurocvd20.empa.ch/>
10. D. Louloudakis, D. Vernardou, E. Spanakis, N. Katsarakis, E. Koudoumas, I. Kazadojev, S. O'Brien, I. Povey, M. Pemble, Effect of Ag metal on the electrochemical response of vanadium oxides grown by AACVD, Eurocvd 20, Sempach, Switzerland, 13-17 July, **2015**, <https://eurocvd20.empa.ch/>
11. D. Louloudakis, K. Psifis, D. Vernardou, E. Spanakis, G. Papadimitropoulos, D. Davazoglou, N. Katsarakis, E. Koudoumas, Study the effect of deposition period on the electrochemical properties of LPCVD WO<sub>3</sub>, EMRS 2015, Lille, France, 11-15 May, **2015**, <https://www.european-mrs.com/meetings/2015-spring>
12. D. Louloudakis, D. Vernardou, E. Spanakis, M. Panagopoulou, Y. Raptis, G. Kiriakidis, N. Katsarakis, E. Koudoumas, Effect of deposition temperature and amount of vanadium precursor on the thermochromic performance of VO<sub>2</sub> coatings grown by atmospheric pressure CVD, EMRS 2015, Lille, France, 11-15 May, **2015**, <https://www.european-mrs.com/meetings/2015-spring>
13. D. Louloudakis, D. Vernardou, E. Spanakis, M. Panagopoulou, Y. Raptis, G. Kiriakidis, N. Katsarakis, E. Koudoumas, Effect of oxygen source on the properties of vanadium oxide coatings grown by atmospheric pressure CVD, EMRS 2015, Lille, France, 11-15 May, **2015**, <https://www.european-mrs.com/meetings/2015-spring>
14. D. Louloudakis, D. Vernardou, E. Spanakis, M. Panagopoulou, G. Raptis, G. Kiriakidis, N. Katsarakis, E. Koudoumas, A comparative study of two APCVD systems for the growth of thermochromic vanadium dioxide coatings, MRS 2015, San Francisco, California, USA, 6-10 April, **2015**, <https://www.mrs.org/spring2015>
15. D. Louloudakis, D. Vernardou, K. Psifis, E. Spanakis, N. Katsarakis, G. Papadimitropoulos, D. Davazoglou, E. Koudoumas, Electrochromic response of WO<sub>3</sub> grown using LPCVD, MRS 2015, San Francisco, California, USA, 6-10 April, **2015**, <https://www.mrs.org/spring2015>
16. D. Louloudakis, D. Vernardou, E. Spanakis, N. Katsarakis, E. Koudoumas, G. Kiriakidis, Atmospheric Pressure Chemical Vapor Deposition of Thermochromic Amorphous

- Tungsten Doped Vanadium Dioxide, 5<sup>th</sup> Is-TCMs, Chania, Crete, Greece, 12-17 October, **2014**, (Link doesn't exist anymore)
- 17.D. Louloudakis, D. Vernardou, E. Spanakis, N. Katsarakis, E. Koudoumas, E. Gagaoudakis, E. Aperathitis, G. Kiriakidis, Effect of Antireflection TiO<sub>2</sub> layer on the Thermo-chromic Performance of Vanadium dioxide, 5<sup>th</sup> Is-TCMs, Chania, Crete, Greece, 12-17 October, **2014**, (Link doesn't exist anymore)
  - 18.. Apostolopoulou, D. Louloudakis, D. Vernardou, N. Katsarakis, E. Koudoumas, G. Kiriakidis, Study of the pH effect on the properties of the hydrothermally grown V<sub>2</sub>O<sub>5</sub>, 5<sup>th</sup> Is-TCMs, Chania, Crete, Greece, 12-17 October, **2014**, (Link doesn't exist anymore)
  - 19.K. Christou, D. Louloudakis, D. Vernardou, C. Savvakis, N. Katsarakis, E. Koudoumas, G. Kiriakidis, Effect of Solution Chemistry on the Characteristics of Hydrothermally grown WO<sub>3</sub> for Electroactive Applications, 5<sup>th</sup> Is-TCMs, Chania, Crete, Greece, 12-17 October, **2014**, (Link doesn't exist anymore)
  - 20.D. Louloudakis, D. Vernardou, E. Spanakis, N. Katsarakis, E. Koudoumas, G. Kiriakidis, Intelligent Thermo-chromic Coatings Grown by Chemical Vapor Deposition at Atmospheric Pressure, 30<sup>th</sup> Panhellenic Conference on Solid-State Physics and Materials Science, Heraklion, Crete, Greece, 21-24 September, **2014**, <http://fsk30.materials.uoc.gr/>
  - 21.K. Psifis, D. Louloudakis, G. Papadimitropoulos, D. Davazoglou, N. Katsarakis, C. Savvakis, E. Spanakis, D. Vernardou, E. Koudoumas, LPCVD Electrochromic WO<sub>3</sub> Layers on FTO Glass Substrates Using Different Substrate Temperatures, 30<sup>th</sup> Panhellenic Conference on Solid-State Physics and Materials Science, Heraklion, Crete, Greece, 21-24 September, **2014**, <http://fsk30.materials.uoc.gr/>
  - 22.M. Panagopoulou, D. Tsoukalas, Y. Raptis, D. Louloudakis, D. Vernardou, E. Spanakis, N. Katsarakis, E. Koudoumas, E. Gagaoudakis, G. Michail, V. Kampylafka, E. Aperathitis, G. Kiriakidis, Study on the properties of VO<sub>2</sub> as thermo-chromic coating for smart windows, 30<sup>th</sup> Panhellenic Conference on Solid-State Physics and Materials Science, Heraklion, Crete, Greece, 21-24 September, **2014**, <http://fsk30.materials.uoc.gr/>
  - 23.D. Louloudakis, D. Vernardou, K. Psifis, E. Spanakis, N. Katsarakis, G. Papadimitropoulos, D. Davazoglou, E. Koudoumas, Effect of the Growth Parameters on the Electrochromic Properties of Low Pressure CVD WO<sub>3</sub> Films, 65<sup>th</sup> Annual meeting of the international society of electrochemistry, Lausanne, Switzerland, 31 August – 5 September, **2014**, [https://www.ise-online.org/ise-conferences/past\\_ISE-meetings.php](https://www.ise-online.org/ise-conferences/past_ISE-meetings.php)
  - 24.M. Apostolopoulou, D. Louloudakis, D. Vernardou, N. Katsarakis, E. Koudoumas, pH effect on the electrochemical properties of the hydrothermally grown V<sub>2</sub>O<sub>5</sub>, EMRS 2014, Lille, France, 26-30 May, **2014**, <https://www.european-mrs.com/meetings/archives/2014/2014-spring>
  - 25.M. Apostolopoulou, D. Louloudakis, D. Vernardou, N. Katsarakis, E. Koudoumas, Hydrothermal growth and characterization of vanadium oxide coatings using VOSO<sub>4</sub> as precursor, EMRS 2014, Lille, France, 26-30 May, **2014**, <https://www.european-mrs.com/meetings/archives/2014/2014-spring>
  - 26.K. Christou, D. Louloudakis, D. Vernardou, N. Katsarakis, E. Koudoumas, One-pot synthesis of WO<sub>3</sub> nanostructures at 95 °C using NaOH and HCl, EMRS 2014, Lille, France, 26-30 May, **2014**, <https://www.european-mrs.com/meetings/archives/2014/2014-spring>
  - 27.D. Louloudakis, D. Vernardou, E. Spanakis, N. Katsarakis, E. Koudoumas, G. Kiriakidis, Tungsten doped vanadium oxide coatings grown by APCVD using isopropoxide precursors, 1<sup>st</sup> Nanoenergy, London, England, 19-21 February, **2014**, <http://www.nanoenergy.co.uk/about.html>
  - 28.E. Gagaoudakis, V. Kampylafka, E. Aperathitis, I. Kortidis, V. Binas, D. Vernardou, D. Louloudakis, E. Spanakis, N.Katsarakis, E. Koudoumas, G. Iliadis, G. Kiriakidis, Thermo-chromic Properties of VO<sub>2</sub> Films Grown by RF Sputtering and APCVD, XXIX Panhellenic Conference on Solid-State Physics and Materials Science, Athens, Greece, 22-25 September, **2013**, <http://physics.ntua.gr/xxix-pcssp/>
  - 29.D. Louloudakis, D. Vernardou, E. Spanakis, N. Katsarakis, E. Koudoumas, Thermo-chromic vanadium oxide coatings grown by APCVD at low temperatures, EuroCVD 19, Varna,

- Bulgaria, 1-6 September, **2013**, <https://www.sciencedirect.com/journal/surface-and-coatings-technology/vol/230>
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### Participation in Projects

- I. ΕΡΕΥΝΩ – ΔΗΜΙΟΥΡΓΩ – ΚΑΙΝΟΤΟΜΩ, XMMaS, T1EΔK-04549
- II. Project NANOPOLY
- III. Leader project, Erasmus Mundus Project, Action 2, Strand 1 funded by the European Audiovisual and Culture Executive Agency (EACEA) of the European Commission
- IV. Development of GaO materials for light emitting devices, NANOPHI project, funded by the ERASMUS MUNDUS Action 2 Strand 2 program
- V. Smart and low cost thermochromic windows for energy saving in buildings, Cooperation project funded by Greece, 09ΣΥΝ-32-1185 project.
- VI. Design and fabrication of nanostructured hybrid solar cells with improved performance, Archimedes III project.
- VII. Growth and characterization of novel nanostructured layers suitable for the confinement of GHz electromagnetic radiation, Archimedes III project.
- VIII. Electrochromic, low cost, advanced windows, Archimedes III project.
- IX. EU ISTFET project NATCO

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