Peer reviewed publications

1. 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
2. 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
3. The effect of growth time and oxygen flow on the properties of electrochromic WO_3 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
4. Effect of deposition temperature on the electrochromic properties of WO_3 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
5. Atmospheric Pressure Chemical Vapor Deposition of Vanadium Oxides at 300° C for Li-Ion Batteries, D. Vernardou, D. Louloudakis, M. Rasoulis, M. Suchea, 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
6. 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. Suchea, 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
7. Oxygen source-oriented control of atmospheric pressure chemical vapor deposition of VO_2 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
8. INFLUENCE OF THICKNESS ON THE PROPERTIES OF TiO_2 AND $Ti(Nb)O_2$ THIN FILMS, M. Suchea, 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_etal_97_106.pdf
9. Atmospheric Pressure Chemical Vapor Deposition of amorphous tungsten doped vanadium dioxide for smart window applications, D. Louloudakis, D. Vernardou, E. Spanakis, M. Suchea, 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
10. Functional properties of APCVD VO_2 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
11. Effect of O_2 flow rate on the thermochromic performance of VO_2 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
12. Effect of O_2 flow rate on the electrochromic response of WO_3 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

13. 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
14. Low pressure CVD of electrochromic WO_3 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
15. Amorphous Thermochromic VO_2 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
16. Study of the pH effect on the properties of the hydrothermally grown V_2O_5, 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
17. Electrochemical evaluation of vanadium pentoxide coatings grown by AACVD, D. Vernadou, 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
18. One-pot synthesis of WO_3 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
19. Effect of solution chemistry on the characteristics of hydrothermally grown WO_3 for electroactive applications, K. Christou, D. Louloudakis, D. Vernardou, C. Savvakis, N. Katsarakis, E. Koudoumasc, 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
20. Hydrothermally grown β-V_2O_5 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
21. Hydrothermal growth and characterization of shape-controlled $NH_4V_3O_8$, 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
22. Electrochemical properties of opal-V_6O_{13} 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
23. Thermochromic amorphous VO_2 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
24. Electrochemical properties of Vanadium Oxide coating gown 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
25. 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

26. 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
27. 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. Huyberechtsand E. Aperathitis, Physica Status Solidi A 207, 1726-1730, **2010**, DOI: 10.1002/pssa.200983740, https://doi.org/10.1002/pssa.200983740

Publications/posters in Conferences' Proceeding with Reviewers

1. 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, 7th IS-TCMs, Chania, Crete, Greece, 14-19 October, **2018**, http://www.tcm2018.org/
2. W. Thongpan, D. Louloudakis, P. Singjai, Electrochromic Properties of WO_3 Films Prepared by Sparking Method using External Electric Field, 7th IS-TCMs, Chania, Crete, Greece, 14-19 October, **2018**, http://www.tcm2018.org/
3. D. Louloudakis, J. Gil-Rostra, K. Mouratis, D. Vernardou, E. Koudoumas, A. R. Gonzalez-Elipe, Effect of the porosity on the electrochromic response of WO_3 grown using magnetron sputtering, 12th ICPAM, Heraklion, Crete, Greece, 22-28 September, **2018**, https://www.icpam.ro/
4. D. Louloudakis, W. Thongpan, K. Mouratis, E. Koudoumas, G. Kiriakidis, P. Singjai, Effect of doping on deposition of WO_3 grown using a simple spark method, EMRS 2018, Strasbourg, France, 17-22 June, **2018**, https://www.european-mrs.com/meetings/2018-spring-meeting
5. 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/
6. D. Louloudakis, D. Vernardou, E. Spanakis, N. Katsarakis, E. Koudoumas, G. Kiriakidis, Growth and study of thermochromic VO_2 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
7. D. Louloudakis, D. Vernardou, E. Spanakis, M. Panagopoulou, G. Raptis, G. Kiriakidis, N. Katsarakis, E. Koudoumas, Effect of O_2 flow rate and deposition period on the thermochromic performance of VO_2 coatings grown by atmospheric pressure CVD, Eurocvd 20, Sempach, Switzerland, 13-17 July, **2015**, https://eurocvd20.empa.ch/
8. K. Psifis, D. Louloudakis, D. Vernardou, E. Spanakis, G. Papadimitropoulos, D. Davazoglou, N. Katsarakis, E. Koudoumas, Effect of O_2 flow rate and temperature on the electrochromic response of WO_3, Eurocvd 20, Sempach, Switzerland, 13-17 July, **2015**, https://eurocvd20.empa.ch/
9. 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/
10. 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_3, EMRS 2015, Lille, France, 11-15 May, **2015**, https://www.european-mrs.com/meetings/2015-spring
11. 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_2 coatings grown by atmospheric pressure CVD, 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 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

13. 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

14. D. Louloudakis, D. Vernardou, K. Psifis, E. Spanakis, N. Katsarakis, G. Papadimitropoulos, D. Davazoglou, E. Koudoumas, Electrochromic response of WO_3 grown using LPCVD, MRS 2015, San Francisco, California, USA, 6-10 April, 2015, https://www.mrs.org/spring2015

15. D. Louloudakis, D. Vernardou, E. Spanakis, N. Katsarakis, E. Koudoumas, G. Kiriakidis, Atmospheric Pressure Chemical Vapor Deposition of Thermochromic Amorphous Tungsten Doped Vanadium Dioxide, 5th Is-TCMs, Chania, Crete, Greece, 12-17 October, **2014**, (Link doesn't exist anymore)

16. D. Louloudakis, D. Vernardou, E. Spanakis, N. Katsarakis, E. Koudoumas, E. Gagaoudakis, E. Aperathitis, G. Kiriakidis, Effect of Antireflection TiO_2 layer on the Thermochromic Performance of Vanadium dioxide, 5th Is-TCMs, Chania, Crete, Greece, 12-17 October, **2014**, (Link doesn't exist anymore)

17.. Apostolopoulou, D. Louloudakis, D. Vernardou, N. Katsarakis, E. Koudoumas, G. Kiriakidis, Study of the pH effect on the properties of the hydrothermally grown V_2O_5, 5th Is-TCMs, Chania, Crete, Greece, 12-17 October, **2014,** (Link doesn't exist anymore)

18. 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_3 for Electroactive Applications, 5th Is-TCMs, Chania, Crete, Greece, 12-17 October, **2014,** (Link doesn't exist anymore)

19. D. Louloudakis, D. Vernardou, E. Spanakis, N. Katsarakis, E. Koudoumas, G. Kiriakidis, Intelligent Thermochromic Coatings Grown by Chemical Vapor Deposition at Atmospheric Pressure, 30th Panhellenic Conference on Solid-State Physics and Materials Science, Heraklion, Crete, Greece, 21-24 September, **2014**, http://fsk30.materials.uoc.gr/

20. K. Psifis, D. Louloudakis, G. Papadimitropoulos, D. Davazoglou, N. Katsarakis, C. Savvakis, E. Spanakis, D. Vernardou, E. Koudoumas, LPCVD Electrochromic WO_3 Layers on FTO Glass Substrates Using Different Substrate Temperatures, 30th Panhellenic Conference on Solid-State Physics and Materials Science, Heraklion, Crete, Greece, 21-24 September, **2014**, http://fsk30.materials.uoc.gr/

21. 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_2 as thermochromic coating for smart windows, 30th Panhellenic Conference on Solid-State Physics and Materials Science, Heraklion, Crete, Greece, 21-24 September, **2014**, http://fsk30.materials.uoc.gr/

22. 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_3 Films, 65th 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

23. M. Apostolopoulou, D. Louloudakis, D. Vernardou, N. Katsarakis, E. Koudoumas, pH effect on the electrochemical properties of the hydrothermally grown V_2O_5, EMRS 2014, Lille,

France, 26-30 May, **2014**, https://www.european-mrs.com/meetings/archives/2014/2014-spring

24. M. Apostolopoulou, D. Louloudakis, D. Vernardou, N. Katsarakis, E. Koudoumas, Hydrothermal growth and characterization of vanadium oxide coatings using $VOSO_4$ as precursor, EMRS 2014, Lille, France, 26-30 May, **2014**, https://www.european-mrs.com/meetings/archives/2014/2014-spring

25. K. Christou, D. Louloudakis, D. Vernardou, N. Katsarakis, E. Koudoumas, One-pot synthesis of WO_3 nanostructures at 95 ^oC using NaOH and HCl, EMRS 2014, Lille, France, 26-30 May, **2014**, https://www.european-mrs.com/meetings/archives/2014/2014-spring

26. D. Louloudakis, D. Vernardou, E. Spanakis, N. Katsarakis, E. Koudoumas, G. Kiriakidis, Tungsten doped vanadium oxide coatings grown by APCVD using isopropoxide precursors, 1st Nanoenergy, London, England, 19-21 February, **2014**, http://www.nanoenergy.co.uk/about.html

27. E. Gagaoudakis, V. Kampylafka, E. Aperathitis, I. Kortidis, V. Binas, D. Vernardou, D. Louloudakis, E. Spanakis, N.Katsarakis, E. Koudoumas, G. Iliadis, G. Kiriakidis, Thermochromic Properties of VO_2 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/

28. D. Louloudakis, D. Vernardou, E. Spanakis, N. Katsarakis, E. Koudoumas, Thermocromic 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

29. D. Louloudakis, D. Vernardou, E. Spanakis, N. Katsarakis, E. Koudoumas, Electrochemical properties of vanadium oxide coatings grown by APCVD on glass substrates, EuroCVD 19, Varna, Bulgaria, 1-6 September, **2013**, https://www.sciencedirect.com/journal/surface-and-coatings-technology/vol/230

30. D. Louloudakis, D. Vernardou, E. Spanakis, N. Katsarakis, E. Koudoumas, Electrochemical properties of vanadium oxide coatings grown by hudrothermal synthesis on FTO substrates, 2nd International Symposium on Advanced Complex Nanomaterials, Namur, Belgium, 15-19 July, **2013**, http://www.rsc.org/events/detail/6130/international-symposium-on-advanced-complex-inorganic-nanomaterials

31. D. Louloudakis, D. Vernardou, E. Spanakis, N. Katsarakis, E. Koudoumas, Study of the pH effect on the electrochemical properties of the hydrothermally grown vanadium oxide coatings, 2nd International Symposium on Advanced Complex Nanomaterials, Namur, Belgium, 15-19 July, **2013**, http://www.rsc.org/events/detail/6130/international-symposium-on-advanced-complex-inorganic-nanomaterials

32. D. Vernardou, D. Louloudakis, E. Koudoumas, N. Katsarakis, J. McGrath, M.E. Pemble, Electrochemical properties of hydrothermally grown vanadium oxides on fluorine doped tin oxide and photonic crystal substrates, 4th International Symposium on Transparent Conductive Materials, Hersonisos, Crete, Greece, 21-26 October, **2012**, (Link doesn't exist anymore)