

Curriculum Vitae

Prof. Nikolaos Katsarakis

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Personal details

First name: Nikolaos
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Date of birth: 15 / 10 / 1968
Place of birth: Heraklion, Crete, Greece
Address (home): Sporadon 7
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Education

September 1986 - March 1992

Graduate studies at the Technical University of Athens, Chemical Engineering Department.

The diploma thesis titled "Protection of marbles by applying acrylic coatings with pure or doped titanium oxide as a pigment" was carried out at the Materials Science Group of the Chemical Engineering Department (Prof. Th. Skoulikidis).

March 1992

Awarded the degree of Dipl. Chemical Engineer.

October 1992 - March 1996

Ph.D. studies at the Technical University of Graz, Institute for Inorganic Materials (Prof. Dr. G. Herzog).

Dissertation: "Highly Conductive La-Ni-Co-Perovskites as Ceramic Electrode Materials".

March 1996

Awarded the degree of Dr. tech.

Employment history

January 1998 - December 2000

Post-doctoral researcher at the Foundation for Research & Technology-Hellas, Institute of Electronic Structure & Laser, Photonic and Electronic Materials Laboratory.

September 2001 - October 2002

Technical researcher C' at the Foundation for Research & Technology-Hellas, Institute of Electronic Structure & Laser.

November 2002 - October 2007

Assistant Professor, General Applied Science Department, School of Applied Technology, Technological Educational Institute of Crete.
Affiliated Researcher, Foundation for Research & Technology-Hellas, Institute of Electronic Structure & Laser.

November 2007 - January 2012

Associate Professor, General Applied Science Department, School of Applied Technology, Technological Educational Institute of Crete.
Affiliated Researcher, Foundation for Research & Technology-Hellas, Institute of Electronic Structure & Laser.

February 2012 - August 2013

Professor, General Applied Science Department, School of Applied Technology, Technological Educational Institute of Crete.
Affiliated Researcher, Foundation for Research & Technology-Hellas, Institute of Electronic Structure & Laser.

September 2013 - May 2019

Professor, Department of Electrical Engineering, School of Applied Technology, Technological Educational Institute of Crete.
Affiliated Researcher, Foundation for Research & Technology-Hellas, Institute of Electronic Structure & Laser.

May 2019-

Professor, Department of Electrical and Computer Engineering, Engineering School, Hellenic Mediterranean University.

Administration

- **Rector of the Hellenic Mediterranean University**, May 2019- .
- **President of the European University Alliance “ATHENA”** (Advanced Technology Higher Education Network Alliance), September 2021-October 2022.
- **Rector of the Technological Educational Institute of Crete**, 1/12/2017 – 7/5/2019.
- **President of the Department of General Sciences**, School of Applied Technology, Technological Educational Institute of Crete (2010-2013).

Research interests

The current research interests of Prof. Nikos Katsarakis include:

- The development and study of metallic oxide thin films (TiO_2 , ZnO and WO_3) and nanostructures (ZnO , InO_x , WO_3 , VO_x , TiO_2), heterostructures ($\text{TiO}_2:\text{WO}_3$) and hybrid nano-composites (e.g., TiO_2 / Ag nanoparticles supported on rGO) for environmental and energy applications, targeting: (a) the photocatalytic removal of micro-pollutants from aqueous environments, (b) the development of novel metal oxide coatings on glass and plastic substrates with self-cleaning properties, and (c) the development of thermochromic / electrochromic materials and devices.
- The design, development and characterization of novel optoelectronic materials, metamaterials and devices.

Participation in Research Programmes

Participation in plenty of EC and national research projects as Scientific Responsible or researcher.

Some of the main research programmes are listed below:

- 1) “Advanced Technology Higher Education Network Alliance / ATHENA”, EU Programmes, ERASMUS+, EPLUS2020 Action Grant

- 2) Επιτόπια Ολοκληρωμένη Διαχείριση Νοσοκομειακών Υγρών Αποβλήτων, ΕΠΑνΕΚ 2014-2020, Ερευνώ-Καινοτομώ-Δημιουργώ (researcher)
- 3) EMERGE – Emerging Printed Electronics Research Infrastructure, EU Programmes, HORIZON 2020 (researcher)
- 4) «Κατασκευή προσυγκροτημένων μονάδων επεξεργασίας υγρών αποβλήτων υψηλού οργανικού φορτίου με συνδυασμό τεχνολογίας μεμβρανών (MBR) και βιοενίσχυσης», ΕΠΑνΕΚ 2014-2020, Ερευνώ-Καινοτομώ-Δημιουργώ (Scientific Responsible)
- 5) Graphene Flagship Core Project 3, EU Programmes, HORIZON 2020 (researcher)
- 6) Graphene Flagship Core Project 2, EU Programmes, HORIZON 2020 (researcher)
- 7) «Πολυμερικά νανοσύνθετα υλικά με ιδιότητες ηλεκτρομαγνητικής θωράκισης», ΕΠΑνΕΚ 2014-2020, Ερευνώ-Καινοτομώ-Δημιουργώ (researcher)
- 8) "PHOTonic METAmaterials: From Basic Research to Applications", ERC Advanced Grant 2012 (researcher)
- 9) Αρχιμήδης III: "Nanostructured Metal Oxide Photocatalysts" (Scientific Responsible)
- 10) Αρχιμήδης III: "Electrochromic low cost advanced windows" (principal researcher)
- 11) Αρχιμήδης III: "Design and fabrication of nanostructured hybrid solar cells with improved performance" (principal researcher)
- 12) ΣΥΝΕΡΓΑΣΙΑ: Έξυπνα & Οικονομικά Θερμοχρωμικά Παράθυρα για Εξοικονόμηση Ενέργειας στα Κτίρια (principal researcher)
- 13) EXEL: "EXtending ELectromagnetism through novel artificial materials", ERC-02 by Greek GSRT, (principal researcher)
- 14) FP7 ICT-FET EU project: "PHOTonic METamaterials" (principal researcher)
- 15) FP7 NMP EU project: "ENgineered SElf-Organized Multi-component structures with novel controllaBLE Electromagnetic functionalities" (principal researcher)
- 16) ΕΠΕΑΕΚ II, Αρχιμήδης I: «Ημιμεταλλικοί σιδηρομαγνήτες και αντισιδηρομαγνήτες» (Scientific Responsible)

- 17) ΕΠΕΑΕΚ II, Πυθαγόρας: «Ανάπτυξη και μελέτη αριστερόστροφων μεταλλικών» (principal researcher)
- 18) ΕΠΕΑΕΚ II, Αρχιμήδης II: «Ανάπτυξη υμενίων ZnO για χρήσεις αισθητήρων οξειδωτικών αερίων» (principal researcher)
- 19) ΠΕΝΕΔ 2003/03ED733: «Ανάπτυξη αισθητήρων ανίχνευσης αερίων» (principal researcher)
- 20) ΕΠΕΑΕΚ II Αρχιμήδης I: «Ανάπτυξη υμενίων για χρήσεις οπτικής απεικόνισης υψηλής ανάλυσης στο κοντινό υπέρυθρο» (researcher)
- 21) INTERREG III/A Ελλάδα-Κύπρος 2000-2006, αρ. Σύμβασης k2301.005, «Καινοτόμα φωτοβολταϊκά στοιχεία και φωτοβολταϊκά συστήματα βελτιωμένης απόδοσης» (researcher)
- 22) DALHM, DEVELOPMENT AND ANALYSIS OF LEFT-HANDED MATERIALS Project number: IST-2001-35511 (principal researcher)
- 23) METAMaterials ORganised for radio, millimeter wave and PHOtonic Superlattice Engineering), Network of Excellence (NoE) EU project (researcher)
- 24) PHOtonics to REalize MOlecular Scale Technologies), Network of Excellence (NoE) EU project (researcher)
- 25) HPRN-CT-2002-00298 RTN "Photon-Mediated Phenomena in Semiconductor Nanostructures" (researcher)
- 26) TMR Hafam No. FMRX-CT97-0141 (researcher)
- 27) TMR Microsync No. FMRX-CT97-0140 (researcher)

Participation in Organizing Committees of Conferences and Workshops

- 1) 6th European Conference on **Environmental Applications of Advanced Oxidation Processes (EAAOP6)**, **26-30 June 2019**, Portoroz, Slovenia, International Scientific Committee (<http://eaaop6.ki.si/>).
- 2) **Advances on Photocatalysis**, AdvPhotoCat-E 2017, The 2nd International Workshop, **14-16 July 2017**, Heraklion, Greece, Organizing Committee (<http://www.photocatalysis-workshop.com/>).
- 3) **30th Panhellenic Conference on Solid State Physics & Materials Science**, 21-24 September 2014, Foundation for Research and Technology-Hellas, Heraklion, Crete, Organizing Committee (<http://fsk30.materials.uoc.gr/>).

- 4) **8th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA)**, 25-28 June 2014, Thessaloniki, Greece, National Organizing Committee (<http://www.spea8.gr/>).
- 5) **3rd European PhD Summer School and Workshop on “Mathematical Modeling of Complex Systems”**, 15-26 July 2013, TEI-C, Heraklion, Greece, Local Organizing Committee.
- 6) **24th Panhellenic Conference on Solid State Physics & Materials Science**, 21-24 September 2008, Heraklion, Greece, Organizing Committee.

Contributed Talks and Posters in Conferences

- 1) 8. Oesterreichischen Chemietagen, 28-30 Σεπτεμβρίου 1994, Graz, Αυστρία. Ομιλία: “Structure and electrical conductivity of ternary La-Ni-Co-oxides”.
- 2) International Seminar on Topics from Materials Science, 3-4 Νοεμβρίου 1994, National Institute of Chemistry, Ljubljana, Σλοβενία. Ομιλία: “Structure and conductivity of La-Ni-Co-oxides”.
- 3) European Ceramic Society, Fourth Conference, 2-6 Οκτωβρίου 1995, Riccione, Ιταλία, “Structure and conductivity of La-Ni-Co-Oxides”.
- 4) XIV Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης, 15-18 Σεπτεμβρίου 1998, Ιωάννινα. «Εισαγωγή ασυνεχειών σε μεταλλικούς φωτονικούς κρυστάλλους για μικροκυματικές εφαρμογές».
- 5) 2nd ECNM Workshop, 3 Οκτωβρίου 1998, Les Diablerets, Ελβετία. “Defected metallic photonic band-gap crystals”.
- 6) COST Telecommunication Action 268, Wavelength Scale Photonic Components for Telecommunications, Workshop & Management Committee Meeting, 15-17 Μαρτίου 1999, Stockholm, Σουηδία. “Metallic photonic crystals for microwave and infrared applications”.
- 7) NATO / ARW on Nanostructured Films and Coatings, 28-30 Ιουνίου 1999, Σαντορίνη, Ελλάδα. “Photonic crystals, fabricated by deep x-ray lithography, exhibit band-gaps in the infrared frequency range”.
- 8) XV Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης, 26-29 Σεπτεμβρίου 1999, Πάτρα, «Μεταλλο-διηλεκτρικές δομές με φωτονικά χάσματα στο μικροκυματικό φάσμα της ηλεκτρομαγνητικής ακτινοβολίας».
- 9) NATO Advanced Study Institute, “Photonic Crystals and Light Localization”, 19-30 Ιουνίου 2000, Κρήτη, Ελλάδα, “Metallo-dielectric photonic band-gap structures in the millimeter-wave region”.
- 10) New Materials for Multifunctional Sensor Applications, 13-15 Δεκεμβρίου 2000, Μόναχο, Γερμανία, “Ozone sensing properties of polycrystalline Indium oxide films at room temperature”.

- 11) 3rd European School of the "NOSE" network, 28/5-2/6 2001, Lecce, Italia, "Production and characterization of Zinc oxide thin films for room temperature ozone sensing".
- 12) High Aspect Ratio Micro Structure Technology, 17-19 Ιουλιου 2001, Baden-Baden, Γερμανια, "Two-dimensional photonic band-gap crystals fabricated by LIGA".
- 13) G. Kiriakidis, H. Ouacha, N. Katsarakis, K. Galatsis, W. Wlodarski, "Low temperature InO_x thin films for O₃ and NO₂ gas sensing", Proceedings of SPIE - The International Society for Optical Engineering, Volume 5116 I, 2003, Pages 84-91 (2003), Smart Sensors, Actuators, and MEMS; Maspalomas, Gran Canaria.
- 14) Χριστουλάκης Σ., Καθαρακης Μ., Κατσαράκης Ν., Κουδουμάς Μ., Sucheα Μ., Σαββάκης Κ., Ευθυμιόπουλος Θ., και Κυριακίδης Γ., "ΕΠΙΦΑΝΕΙΑΚΕΣ ΔΟΜΕΣ ZnO ΜΕ ΤΗ ΜΕΘΟΔΟ PLD" Laser Olympics 2004 Conference, Athens, 15-17 October 2004.
- 15) M. Sucheα, M. Katharakis, S. Christoulakis, N. Katsarakis, G. Kiriakidis, "Surface Analysis of ZnO Transparent Thin Films", MMN 2004 International Conference, Athens, 14-17 November 2004.
- 16) S. J. Ippolito, S. Kandasamy, K. Kalantar-zadeh, W. Wlodarski, K. Galatsis, G. Kiriakidis, N. Katsarakis, M. Katharakis, "Highly sensitive layered ZnO/LiNbO₃ SAW device with InO_x selective layer for NO₂ and H₂ gas sensing", Eurosensors XVIII, 18th European Conference on Solid-State Transducers, Rome, Italy, 12-15 September 2004.
- 17) A. C. Fechete, S. J. Ippolito, K. Kalantar-zadeh, W. Wlodarski, A. S. Holland, K. Galatsis, G. Kiriakidis, N. Katsarakis, M. Katharakis, "The study of InO_x/ZnO/XZ LiNbO₃ layered SAW devices for ozone sensing", IEEE Sensors 2004, Volume 3, 2004, Article number W3L-B.5, Pages 1510-1513, presented in the 3rd IEEE Conference on Sensors, Vienna, Austria, 24-27 October 2004.
- 18) G. Kenanakis; M. Androulidaki, E. Koudoumas, C. Savvakis, and N. Katsarakis, "Photoluminescence of ZnO nanostructures grown by the aqueous chemical growth technique", EMRS European Materials Research Society 2006, Nice, France, May 28-June 1, 2006.
- 19) G. Kenanakis, D. Vernardou, E. Koudoumas, and N. Katsarakis, "Ozone sensing properties of ZnO nanostructures grown by the aqueous chemical growth technique", 4th International Workshop on ZnO and Related Materials, Giessen, Germany, October 3-6, 2006.
- 20) G. Kenanakis, D. Vernardou, M. Sucheα, S. Christoulakis, E. Koudoumas, G. Kiriakidis, and N. Katsarakis, "Ozone sensing properties of ZnO nanostructures grown by the aqueous chemical growth technique", 1st International Symposium on Transparent Conducting Oxides, Hersonissos, Crete, Greece, October 23-25, 2006.
- 21) D. Vernardou, G. Kenanakis, S. Couris, E. Koudoumas, E. Kymakis, and N. Katsarakis, "pH effect on the growth of ZnO nanostructures by aqueous chemical growth", 1st International Symposium on Transparent Conducting Oxides, Hersonissos, Crete, Greece, October 23-25, 2006.

- 22) G. Kenanakis, S. Foteinopoulou, I. Tsiapa, T. Gundogdu, R. Penciu, M. Kafesaki, N. Katsarakis, E. N. Economou, C. M. Soukoulis, Photonic crystals and left-handed materials in FORTH, Phoremest 2007, Marsalomas, Gran Canaria, Spain, May 2-4, 2007.
- 23) I. Tsiapa, G. Kenanakis, S. Foteinopoulou, T. Gundogdu, R. Penciu, M. Kafesaki, N. Katsarakis, E. N. Economou, C. M. Soukoulis, Left-Handed Electromagnetism in Composite Metamaterials and PC surfaces, European Doctoral School on Metamaterials, Warsaw, Poland, May 7-9, 2007.
- 24) D. Vernardou, G. Kenanakis, E. Koudoumas, G. Kiriakidis and N. Katsarakis, Effect of Deposition Parameters on the Growth of Zinc Oxide Nanostructures Using Chemical Methods, EMRS European Materials Research Society 2007, Strasbourg, France, May 28 - June 1, 2007.
- 25) D. Vernardou, E. Stratakis, G. Kenanakis, E. Koudoumas and N. Katsarakis, Hydrophilicity of ZnO nanostructures grown by aqueous chemical growth, EMRS European Materials Research Society 2007, Strasbourg, France, May 28 - June 1, 2007.
- 26) Nikos Katsarakis, Maria Kafesaki, Irimi Tsiapa, George Kenanakis, Eleftherios N. Economou, Costas M. Soukoulis, Thomas Koschny, Fishnet structure: the occurrence of left-handed behavior over a wide range of geometrical parameters, EMRS European Materials Research Society 2007, Strasbourg, France, May 28 - June 1, 2007.
- 27) I. Tsiapa, N. Katsarakis, M. Kafesaki, G. Kenanakis, C. M. Soukoulis, and E. N. Economou, Fishnet structure: The occurrence of left-handed behavior over a wide range of geometrical parameters, XXIII Panhellenic Conference on Solid State Physics and Materials Science, NCSR Demokritos, Athens, September 23 - 26, 2007.
- 28) K. Vlachou, G. Kalogerakis, D. Vernardou, E. Stratakis, G. Kenanakis, E. Koudoumas and N. Katsarakis, Substrate and deposition time effect on the hydrophilicity of the hydrothermally grown TiO₂ films, XXIII Panhellenic Conference on Solid State Physics and Materials Science, NCSR Demokritos, Athens, September 23 - 26, 2007.
- 29) D. Vernardou, E. Stratakis, G. Kenanakis, H. M. Yates, S. Couris, M. E. Pemble, E. Koudoumas and N. Katsarakis, "Light-induced reversible hydrophilicity of hydrothermal grown TiO₂ films", XXIII Panhellenic Conference on Solid State Physics and Materials Science, NCSR Demokritos, Athens, September 23 - 26, 2007.
- 30) G. Kenanakis, Z. Giannakoudakis, D. Vernardou, E. Koudoumas and N. Katsarakis, Investigation of the Structural, Morphological and Photocatalytic Properties of ZnO Thin Films and Nanostructures Deposited by Different Chemical Routes, XXIII Panhellenic Conference on Solid State Physics and Materials Science, NCSR Demokritos, Athens, September 23 - 26, 2007.
- 31) M. Kafesaki, E. N. Economou, N. Katsarakis, I. Tsiapa, T. F. Gundogdu, C. M. Soukoulis, T. Koschny, Left-handed materials in microwave and infrared frequencies, Proceedings of 2007 9th International Conference on Transparent Optical Networks, ICTON 2007, Vol. 2, 4296142, 57 (2007).

- 32) G. Kenanakis, S. Foteinopoulou, I. Tsiapa, T. Gundogdu, R. Penciu, M. Kafesaki, N. Katsarakis, E. N. Economou, C. M. Soukoulis, Photonic crystals and left-handed materials in FORTH, presented in Women in Photonics (WiP) School on Photonic Metamaterials, organized by the European Networks of Excellence, Metamorphose-VI and Phoremest-NoE, Paris, April 14-18, 2008.
- 33) G. Kenanakis, Z. Giannakoudakis, D. Vernardou, Emm. Koudoumas and N. Katsarakis, Structural, optical and photocatalytic properties of ZnO thin films and nanostructures deposited by different chemical routes, ICCG7 - The 7th International Conference on Coatings on Glass and Plastics, Eindhoven - The Netherlands, June 15-19, 2008.
- 34) D. Vernardou, K. Rizos, K. Moschovis, G. Kortidis, G. Kenanakis, Emm. Koudoumas, N. Katsarakis and G. Kiriakidis, A comparative study of solution concentration and temperature on the hydrothermally grown ZnO ozone sensors, 2nd International Symposium on Transparent Conductive Oxides, Hersonissos, Crete, Greece, October 22 - 26, 2008.
- 35) D. Vernardou, E. Stratakis, A. Mohamed, G. Kenanakis, Emm. Koudoumas and N. Katsarakis, Hydrothermal growth of Fe⁺³ doped TiO₂ on glass for self-cleaning applications, 2nd International Symposium on Transparent Conductive Oxides, Hersonissos, Crete, Greece, October 22 - 26, 2008.
- 36) G. Kenanakis, D. Vernardou, Emm. Koudoumas, C. Savvakis and N. Katsarakis, Structural, Optical and Photocatalytic properties of ZnO Thin Films and Nanostructures Deposited by Different Chemical Routes, XXIV Panhellenic Conference on Solid State Physics and Materials Science, Heraklion, Crete, September 21-24, 2008.
- 37) G. Kenanakis, S. Foteinopoulou, M. Kafesaki, N. Katsarakis, E. N. Economou, C. M. Soukoulis, "Fishnet Structure: The Occurrence of Left-Handed Behavior Over a Wide Range of Geometrical Parameters", PhOREMOST Workshop "Advances in Nanophotonics", Barcelona, 30-31 October 2008.
- 38) G. Kenanakis, S. Foteinopoulou, M. Kafesaki, N. Katsarakis, E. N. Economou, C. M. Soukoulis, "Slab-pair-based microwave metamaterials", 2nd European Topical Meeting on Nanophotonics and Metamaterials, Seefeld ski resort, Tirol, Austria 5 - 8 January 2009.
- 39) K. Kolodziejak, S. Turczynski, A. Klos, D. A. Pawlak, N. Katsarakis, G. Kenanakis and K. Rozniatowski, Self-organized TiO₂-MnTiO₃ fishnet-like microstructure, 2nd European Topical Meeting on Nanophotonics and Metamaterials, Seefeld ski resort, Tirol, Austria 5 - 8 January 2009.
- 40) G. Kenanakis, N. Lyroni, D. Vernardou and N. Katsarakis, Light-induced photocatalytic degradation of methylene blue by ZnO and TiO₂ nanostructures deposited onto polymer substrates, 1st International Workshop on Application of Redox Technologies in the Environment, Istanbul, Turkey, September 14-15, 2009.
- 41) G. Kenanakis, C. Savvakis and N. Katsarakis, Light-induced photocatalytic degradation of stearic acid by z-axis ZnO oriented nanowires, 1st International Workshop on Application of Redox

- Technologies in the Environment, Istanbul, Turkey, September 14-15, 2009.
- 42) G. Kenanakis, Z. Giannakoudakis, D. Vernardou, C. Savvakis and N. Katsarakis, "Photocatalytic degradation of stearic acid by ZnO thin films and nanostructures deposited by different chemical routes", 2nd European Conference on Environmental Applications of Advanced Oxidation Processes", Cyprus, September 9-11, 2009.
 - 43) T. F. Gundogdu, N. Katsarakis, M. Kafesaki, G. Konstantinidis, C. M. Soukoulis, E. Ozbay, "Planar negative index materials in the far infrared regime", IEEE Lasers and Electro-Optics Society Annual Meeting-LEOS, Belek-Antalya, October 2009.
 - 44) Reyes-Coronado, M. F. Acosta, R.I. Merino, V. M. Orera, G. Kenanakis, N. Katsarakis, M. Kafesaki and C. M. Soukoulis, Electromagnetic response of anisotropic eutectic metamaterials in THz range, 3rd International Workshop on Theoretical and Computational Nano-Photonics (TaCoNa-Photonics), Physikzentrum, Bad Honnef, Germany, November 3-5, 2010.
 - 45) G. Kenanakis, M. Androulidaki, D. Vernardou, N. Katsarakis, E. Koudoumas, Photoluminescence study of ZnO structures grown by Aqueous Chemical Growth, 3rd International Symposium on Transparent Conductive Materials (TCM 2010), Analipsi/Hersonissos, Crete, Greece, October 17-21, 2010.
 - 46) G. Kenanakis, C. Savvakis and N. Katsarakis, Light-induced photocatalytic degradation of stearic acid by ZnO thin films and nanostructures deposited by Ultrasonic Spray Pyrolysis, 3rd International Symposium on Transparent Conductive Materials (TCM 2010), Analipsi/Hersonissos, Crete, Greece, October 17-21, 2010.
 - 47) R.I. Merino, M. F. Acosta, V. M. Orera, G. Kenanakis, A. Reyes-Coronado, N. Katsarakis, M. Kafesaki, Optical Properties of NaCl-LiF and KCl-LiF Directionally Solidified Eutectics in the THz Region, Ninth International Conference on Photonic and Electromagnetic Crystal Structures (PECS-IX 2010), Granada, Spain, September 26-30, 2010.
 - 48) R.I. Merino, M. F. Acosta, V. M. Orera, G. Kenanakis, N. Katsarakis, M. Kafesaki, Optical properties of NaCl-LiF directionally solidified eutectics in the THz region, XI Congreso Nacional de Materiales, Zaragoza, Spain, June 23-25, 2010.
 - 49) G. Kenanakis, C. Savvakis and N. Katsarakis, Light-induced photocatalytic degradation of stearic acid by c-axis oriented ZnO nanowires grown at mild temperatures, The 8th International Conference on Coatings on Glass and Plastics (ICCG 8), Braunschweig, Germany, June 13-17, 2010.
 - 50) G. Kenanakis, N. Lyroni, D. Vernardou, N. Katsarakis, Light-induced photocatalytic degradation of azo dyes by ZnO and TiO₂ nanostructures deposited onto polymer substrates at mild temperatures, The 8th International Conference on Coatings on Glass and Plastics (ICCG 8), Braunschweig, Germany, June 13-17, 2010.
 - 51) Vernardou, D.; Drosos, H.; Spanakis, E.; Koudoumas, E.; Savvakis, C.; Katsarakis, N., Electrochemical and photocatalytic properties of WO₃

- coatings grown at low temperatures, 3rd International Symposium on Transparent Conductive Materials in Crete (Greece) 2010.
- 52) Vernardou, D.; Papadakis, G.; Spanakis, E.; Koudoumas, E.; Savvakis, C.; Katsarakis, N., Using an Atmospheric Pressure Chemical Vapor Deposition Process for the Development of "Smart Windows", 3rd International Scientific Conference on "Energy and Climate Change" in Athens (Greece) 2010.
 - 53) Electrochromic properties of WO₃, V₂O₅ and TiO₂ prepared by hydrothermal growth at 95 °C, Vernardou, D.; Drosos, H.; Spanakis, E.; Koudoumas, E.; Savvakis, C.; Katsarakis, N.; The 8th International Conference on Coatings on Glass and Plastics (ICCG 8), Braunschweig (Germany), June 13-17, 2010.
 - 54) Electrochemical Characterization of Metal Oxides Grown by Atmospheric Pressure Chemical Vapor Deposition for Smart Window Applications, Antoniou, G.; Doumousiaris, K.; Vernardou, D.; Koudoumas, E.; Katsarakis, N., XXVII Panhellenic Conference on Solid State Physics and Materials Science in Limassol (Cyprus) 2011.
 - 55) Electrochemical Properties of Tungsten Oxide films prepared on Polycarbonate at Low temperatures by Chemical Vapour Deposition, Drosos, D.; Vernardou, D.; Koudoumas, E.; Katsarakis, N.; Savvakis, C.; Povey, I. M.; Pemble, M. E. 8th International Conference on Nanosciences and Nanotechnologies in Thessaloniki (Greece) 2011.
 - 56) Study of the electrochemical properties of WO₃ coatings grown by APCVD on various substrates, Vernardou, D.; Spanakis, E.; Drosos, H.; Koudoumas, E.; Savvakis, C.; Katsarakis, N., EuroCVD 18 in Kinsale (Ireland) 2011.
 - 57) Vernardou D., Louloudakis D., Koudoumas E., Katsarakis N., McGrath J., Pemble M. E., Electrochemical properties of hydrothermally grown vanadium oxides on fluorine doped tin oxide and photonic crystal substrates, Transparent Conductive Materials (TCM) 2012, Hersonissos, Crete, Greece, October 21-26, 2012.
 - 58) Kenanakis G., Katsarakis N., Koudoumas E., Electrical and optical properties of ZnO and ZnO: Al thin films grown by ultrasonic spray pyrolysis, Transparent Conductive Materials (TCM) 2012, Hersonissos, Crete, Greece, October 21-26, 2012.
 - 59) Kenanakis G., Katsarakis N., Light-induced photocatalytic degradation of stearic acid and Methylene Blue by c-axis oriented ZnO thin films and nanowires using aqueous solution approaches, Transparent Conductive Materials (TCM) 2012, Hersonissos, Crete, Greece, October 21-26, 2012.
 - 60) Kenanakis G., Lyroni N., Vernardou D., Katsarakis N., Light-induced photocatalytic degradation of azo-dyes by ZnO and TiO₂ nanostructures deposited onto polymer substrates, Transparent Conductive Materials (TCM) 2012, Hersonissos, Crete, Greece, October 21-26, 2012.
 - 61) Georgaki I., Iliadis J., Psaroudakis A., Kenanakis G., Vernardou D., Katsarakis N., Photocatalytic properties of metal oxide powders and nanostructures grown by chemical techniques at low temperatures,

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