

## CURRICULUM VITAE - LIKODIMOS VLASSIS



**Vlassis Likodimos**

**Nationality :** Greek

**Date and Place of Birth :** 30 May 1967, Volos

**Marital status:** Married

**Work address:** Section of Condensed Matter Physics  
Department of Physics  
National and Kapodistrian University of Athens  
Building IV-4, Room 36  
Univeristy Campus, GR-157 84 Athens, Greece  
Tel.:(+30) 210 727 6824,  
Fax:(+30) 210 727 6711  
E-mail: [vlikodimos@phys.uoa.gr](mailto:vlikodimos@phys.uoa.gr)  
Webpage: <http://scholar.uoa.gr/vlikodimos>

### PROFESSIONAL EXPERIENCE/POSITIONS

- 2020- Associate Professor at the Department of Physics, National and Kapodistrian University of Athens.
- 2014-20 Assistant Professor (Experimental Solid State Physics) at the Department of Physics, National and Kapodistrian University of Athens.
- 2007-14 Research associate at the Institute of Physical Chemistry of the National Center for Scientific Research (NCSR) "Demokritos".
- 2001-06 Lecturer (under contract PD 407) at the School of Applied Mathematical and Physical Sciences, National Technical University of Athens.
- 2000-01 Research associate at the Institute of Materials Science, National Center for Scientific Research (NCSR) "Demokritos".
- 1998-00 Post-doctoral researcher at INFN Unità di Ricerca, Pisa-Università TMR project "Near-Field Optics for Nanotechnology".
- 1997-98 Post-doctoral researcher, National and Kapodistrian University of Athens, TEMPUS project JEP-11173 96.
- 1996-97 Military service in Greece.
- 1993-95 Research associate at the Physics Department of N.K.U.A, "EPR Study of High- $T_c$  Superconductors", GGET 91ED 312.
- 1992-95 Research associate at the Physics Department of of N.K.U.A, "Study and Development of High- $T_c$  Superconductors", GGET 89 EK 19.

### EDUCATION

- 1985-89 Undergraduate courses and Degree in Physics at the National and Kapodistrian University of Athens (very good).
- 1990-91 Postgraduate courses in Solid State Physics, Quantum Mechanics, Statistical Physics at the Department of Physics (Section of Solid State Physics) of N.K.U.A. and NCSR "Demokritos".
- 1991-96 Ph.D. Thesis: "Magnetic and Spectroscopic Properties of  $\text{RBa}_2\text{Cu}_3\text{O}_{6+x}$ " Department of Physics, National and Kapodistrian University of Athens (Excellent).

## TEACHING EXPERIENCE

### *Teaching Activities (current)*

- Introduction to Solid State Physics (10EKA05 undergraduate classroom course). <https://eclass.uoa.gr/courses/PHYS296/>
- Physics of Molecules and Nanomaterials (10EK502 undergraduate classroom course) <https://eclass.uoa.gr/courses/PHYS235/>
- Spectroscopic Methods for Materials Characterization (PHYS171 postgraduate classroom course). <https://eclass.uoa.gr/courses/PHYS171/>
- Fundamental Physics Laboratory III: Heat and Waves (10YKO07 undergraduate lab course).

### *Teaching Activities (2001-06)*

Experimental Physics I, II, III in the School of Applied Mathematical and Physical Sciences at the National Technical University of Athens (NTUA). Laboratory courses for Condensed Matter Physics, Atomic and Molecular Physics, and Laboratory Physics at the Depts of Chemical Engineering, Electrical and Computer Engineering, Mechanical Engineering of NTUA. Preparation of laboratory setups and manuals on a) Temperature dependence of the resistivity for metals and semiconductors, b) Determination of the electron spin Landé g factor by electron paramagnetic resonance, c) K absorption edges of X-rays and Moseley law, d) Spectrophotometry and the Lambert-Beer law in biological samples.

### *Supervision of PhD Theses:*

- [1] Angeliki Diamantopoulou, "Electronic, optical and magnetic properties of nanocomposite materials of graphene and its derivatives" (6/2/2020). Scholar of Research Projects for Excellence IKY/SIEMENS.
- [2] Alexia Toumazatou "Titanium dioxide photonic nanostructures for photocatalytic applications under visible light" (20/2/2017). Scholar of the Onassis Foundation.
- [3] Martha Pylarinou "BiVO<sub>4</sub> inverse opal photonic catalysts" (16/12/2019).
- [4] Stylianos Loukopoulos "Heterostructured MoS<sub>2</sub>-TiO<sub>2</sub> photonic crystals for photoinduced applications" (16/12/2019).
- [5] Maria-Athina Apostolaki "WO<sub>3-x</sub> photonic crystals for photoinduced applications" (9/11/2020).

### *Member of PhD thesis advisory committees:*

- [1] Kostantinos Lambropoulos "Electronic structure and physical properties of periodic, quasi-crystalline, morphoclastic, amorphous and random DNA parts" (12/2/2020).
- [2] Theocharis Angeletos "Studies of point defects in semiconducting and insulating materials by spectroscopic methods" (2013).
- [3] Ioannis Kohylas "Semiconductor nanostructures for optoelectronic devices" (2018).
- [4] Christina Zaharaki "Synthesis and characterization of Fe modified Zr<sub>x</sub>Hf<sub>1-x</sub>O<sub>2</sub> thin films-electrical properties" (2018).
- [5] Dimitra Manousou "Investigation of the electrical and the optical properties of vanadium dioxide (VO<sub>2</sub>) thin films" (2018).
- [6] Emmanouil Panagiotidis "Microstructure design for the control of light and study of photonic surface states" (2018).

- [7] Elli Georgopoulou-Kotsaki "Study on the magnetocaloric properties of monocrystalline and polycrystalline samples of the compounds  $Mn_{5-x}Fe_xSi_3$  ( $x=0-4$ ) in relevance with modern applications (magnetic cooling, medicine) (2019).
- [8] Ioannis Theocharis "Study of the electrical properties of MicroElectroMechanical Systems (MEMS) capacitive switches" (2019).
- [9] Nikitas Siannas "Non-volatile Hf(Zr)O<sub>2</sub> based ferroelectric memory devices for neuromorphic applications" (2020).
- [10] Kleopatra Aretouli "Epitaxial growth and study of 2D layered topological insulators and transition metal dichalcogenides"

#### Supervision of M.Sc. Thesis:

- [1] Alexia Toumazatou "Titanium dioxide photonic crystals for slow photon amplification of the photocatalytic efficiency" (2017).
- [2] Dimitrios Papadakis "Enhanced Raman scattering in TiO<sub>2</sub> photonic crystals functionalized by graphene oxide nanocolloids" (2018).
- [3] Martha Pylarinou "Surface modification of TiO<sub>2</sub> photonic crystals by nanoscopic Fe oxides for enhanced visible light photocatalysis" (2018).
- [4] Stylianos Loukopoulos "Bilayer CoO<sub>x</sub>-TiO<sub>2</sub> photonic films for enhanced visible light harvesting and photocatalysis" (2018).
- [5] Maria-Athina Apostolaki "Surface modification of TiO<sub>2</sub> photonic crystals by graphene quantum dots for photocatalytic applications" (2019).

#### Supervision of final year dissertations:

- [1] Vekris Alexandros "Iron modified self-organized TiO<sub>2</sub> anodic nanotubes for photocatalytic applications" (2016).
- [2] Loukopoulos Stylianos "Raman spectroscopy on single wall carbon nanotubes" (2016).
- [3] Hatzigiannakis Georgios "Modification of nanocrystalline TiO<sub>2</sub> by Fe and Cu metals" (2016).
- [4] Halvatzi Elissabeth "Study of nanocrystalline titania polymorphic phases by Raman spectroscopy" (2016).
- [5] Serbeniadi Triantafyllia "X-ray diffraction and infrared spectroscopic investigation of P, F and P-F doped TiO<sub>2</sub>" (2016) (co-supervision with Prof. M. Calamiotou).
- [6] Kalithinou Eirini "Structural and microstructural study of nanocrystalline carbon modified titania" (2017) (co-supervision with Prof. M. Calamiotou).
- [7] Karagounis Gkikas "Infrared study of sulfur doped TiO<sub>2</sub>" (2017).
- [8] Konidaris Panagiotis "Copper modified self-organized TiO<sub>2</sub> nanotubes for photocatalytic applications" (2017).
- [9] Pylarinou Martha "Optical properties of TiO<sub>2</sub> photonic crystals" 2017.
- [10] Kourouniotis Georgios "Evaluation of the photocatalytic activity of TiO<sub>2</sub> films by Raman spectroscopy" (2017).
- [11] Papadakis Dimitrios "Photocatalytic evaluation of nanocrystalline TiO<sub>2</sub> by optical spectroscopy" (2017).
- [12] Zervou Anna "Solar cells with perovskite materials" (2018).
- [13] Gasparis George "Study of the photocatalytic activity of TiO<sub>2</sub> photonic crystals by optical spectroscopy" (2018).
- [14] Apostolaki Athina "Photocatalytic evaluation of TiO<sub>2</sub> photonic films modified by graphene oxide nanocolloids" (2018).
- [15] Niakas Michail "Photocatalytic activity of TiO<sub>2</sub> photonic crystals modified by Fe oxides" (2019).

- [16] Christoforou Marios-Kostantinos "Surface modification of nanocrystalline TiO<sub>2</sub> films with graphene quantum dots" (2020).
- [17] Orfanoudakis Spyros "Photocatalytic activity of mesoporous TiO<sub>2</sub> films" (2020).
- [18] Gerakianaki Aliko "Photocatalytic activity of surface modified CoO<sub>x</sub>-TiO<sub>2</sub> photonic crystals" (2020).
- [19] Mitsakis Michail "Study of CO<sub>2</sub> adsorption and permeability in supported single wall nanotube membranes" (co-supervision with Dr. G. Em. Romanos from INN, NCSR "D") (2020).
- [20] Vaggalis Panagiotis "Structural and optical properties of surface modified nanocrystalline titania by Co oxides" (2021).

*Participation in dissertation committees for (6) Ph.D. and (20) M.Sc. theses.*

### **ADMINISTRATIVE RESPONSIBILITIES**

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- Member of the General Assembly of the Department of Physics (2014-17, 2019-).
- Member of the Committee for Postgraduate Studies (2014-).

### **RESEARCH INTERESTS**

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- Design and development of nanostructured materials for photoinduced environmental and solar energy conversion applications, mainly semiconductor photocatalysis, solar cells and surface enhanced Raman spectroscopy.
- Carbon and low dimensional nanomaterials (nanotubes, graphene).
- Scanning probe techniques (atomic/piezoresponse force microscopy AFM/PFM, scanning near field optical microscopy-SNOM) and their application in ferroelectric/piezoelectric and polymer materials.
- Structural, electronic and magnetic properties of complex metal oxides and strongly correlated systems including magnetic nanocomposites, manganites and high-T<sub>c</sub> superconductors.

### **RESEARCH PROGRAMS** (*participation as researcher*)

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- "Development of High-T<sub>c</sub> superconductors" G.S.R.T-89EK 19 (N.K.U.A.) 1991-93.
- "EPR study of High-T<sub>c</sub> superconductors" G.S.R.T-91EΔ 312 (N.K.U.A.) 1994-96.
- "Magnetic resonance and susceptibility measurements on high temperature superconductors" Bilateral scientific cooperation Greece-Germany G.S.R.T (N.K.U.A.) 1995-96.
- Assistant Coordinator in the TEMPUS JEP-11173-96 "The establishment of a Training and Educational Center for New Materials" (N.K.U.A.) 1997-99.
- "Near Field Optics for Nanotechnology", NanoSNOM, TMR-Network ERBFMRX-CT-98-0242 (INFM-University of Pisa) 1998-2000.
- "New materials of Carbon: Fullerenes, nanotubes", ELKE N.K.U.A. 1999-2001.
- "Magnetic and spectroscopic properties of mixed valence vanadium oxides M<sub>2</sub>FeV<sub>3</sub>O<sub>11</sub> (M=Ni, Mg, Zn)" ELKE N.K.U.A. 2000-2001.
- "Development of high quality high T<sub>c</sub> superconductor single crystals, study of the optical vortex properties" GSRT-EE736 (Institute of Materials Science, NCSR "Demokritos") 2000-2001.
- "Optical nanowriting on azobenzene side-chain polymethacrylate thin films with near-field scanning optical microscopy" MURST, CIPE-P5BW5 (INFM-University of Pisa) 2002.

- “Composite materials of magnetic nanoparticles in carbon and polymer matrices” ELKE - N.K.U.A 2007.
- “Nanomagnetic and other inorganic nanoparticles and their composites with polymeric matrices” Bilateral Scientific and Technological cooperation Greece-Poland G.S.R.T (N.K.U.A) 2006-2007.
- “Magnetic refrigerator based on manganese perovskites” Bilateral Scientific and Technological cooperation Greece-Poland, G.S.R.T (Institute of Materials Science NCSR “Demokritos”) 2006-2007.
- “Ti-Nanotubes-Preparation, Characterization and Application of Self-Organized Titanium Oxide-Nanotubes”, Ti-Nanotubes, STREP project NMP-CT-2006-033313 FP6 (Institute of Physical Chemistry, NCSR “Demokritos”) 2007-09.
- “Water Detoxification Using Innovative vi-Nanocatalysts”, CLEAN WATER, Collaborative projects FP7 ENV.2008.3.1.1.2 and NMP-2008-4.1.2-2: Nanotechnologies for water treatment (Institute of Physical Chemistry, NCSR “Demokritos”) 2009-12.
- «IOLICAP-Novel Ionic Liquid and supported ionic liquid solvents for reversible CAPture of CO<sub>2</sub>» Collaborative project FP7-ENERGY-2011-1 (Grant agreement no: 283077) (Institute of Physical Chemistry, NCSR “Demokritos”) 2012-2014.
- “SANS-Sensitizer Activated Nanostructured Solar Cells” FP7-NMP-2009-1.2-1 - Nanotechnology for harvesting energy via photovoltaic technologies (Grant agreement no: 246124) (Institute of Physical Chemistry, NCSR “D”) 2012-14.
- ARISTEIA I “Advanced materials for highly efficient dye-sensitized solar cells - AdMatDSC/1847, Greek Ministry of Education and the European Commission, (Institute of Physical Chemistry, NCSR “Demokritos”) 2013-16.
- THALES “Innovative materials for nanocrystalline solar cells - NANOSOLCEL D.540 MIS: 377756, Greek Ministry of Education and the European Commission (University of Patras) 2012-14.
- «Εναπόθεση Αλογονούχων Περοβσκιτών σε μορφή Λεπτών Υμενίων με Ελεγχόμενη Κρυσταλλικότητα και μελέτη των Δομικών και Οπτοηλεκτρονικών ιδιοτήτων τους» Υποστήριξη ερευνητών με έμφαση στους νέους ερευνητές - κύκλος Β, ΕΣΠΑ 2014-2020 (ΣΕΜΦΕ, ΕΜΠ) Αναπληρωτής Επιστημονικός Υπεύθυνος.

#### **RESEARCH PROGRAMS** (*participation as Principal Investigator*)

1. “Enhanced light harvesting by innovative photonic structures of titanium dioxide and graphene oxide for applications in photocatalytic environmental cleaning and solar-to-electric energy conversion” Research Projects for Excellence IKY/SIEMENS (2016-17). (Budget 48.600 €)  
Ranked first (94/100) among 140 proposals in the ENERGY-INDUSTRY sector of the specific call. Scholar: *Angeliki Diamantopoulou* (PhD student)
2. “Advanced photocatalytic Slow Photon nanostructures-SLOWPHOTON» Hellenic Foundation for Research and Innovation (H.F.R.I.) under the “First Call for H.F.R.I. Research Projects to support Faculty members and Researchers and the procurement of high-cost research equipment grant” (Project Number: 543) (Budget 190.000 €).
3. “Novel optical biosensors based on Si nanowires for determining cancer, metabolic and oxidizing stress indicators”-MIS 5069988 Co-financed by the European Regional Development Fund of the European Union and Greek national funds through the Operational Program Competitiveness, Entrepreneurship and Innovation, under the call RESEARCH-CREATE-



INNOVATE (project code:T2EDK-03746), ΕΣΠΑ 2014 - 2020 (NKUA Budget 193.147,47 €).

### **PRIZES/DISTINCTIONS**

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Recipient of State Scholarships Foundation (IKY) prize for 2<sup>nd</sup> rank achievement in the entrance exams at the Department of Physics, National and Kapodistrian University of Athens (1985). Two research articles were classified as Applied Catalysis B: Environmental Top Cited Papers for 2010 and 2011. Two articles were selected for Nanotechweb (IOP) Journal Highlights Articles: Photoinduced applications of titania nanotubes (2009). Six articles were selected for the Virtual Journal of Nanoscale Science & Technology of AIP within the period 2003-2007. Two articles have been selected as Editor's choice (Journal of Molecular Catalysis A and Materials). Two articles were selected for the journals' cover. Best poster awards in two international and two national conferences.

### **EDITORIAL WORK/REVIEWING/EVALUATION**

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*Member of the Editorial Board of Materials – Open Access Journal published by MDPI (Impact Factor: 3.623). Section Editor-in-Chief of Materials Physics.*

*Guest Editor for three Special Issues for Materials*

- *Advanced Photocatalytic Materials*
- *Feature Papers in Materials Physics*
- *Plasmonic and Photonic Nanostructures for Sensing and Solar Energy Conversion Applications*

*Reviewer in international peer reviewed journals (>60):*

ACS Applied Energy Materials, ACS Applied Materials & Interfaces, ACS Applied Nano Materials, ACS Catalysis, APL Materials, Applied Catalysis A, Applied Catalysis B, Applied Surface Science, Carbon, Catalysis Today, Catalysts, Chemical Engineering, Chemical Engineering Journal, Chemical Physics, Chemical Physics Letters, Coatings, Communications Materials, Crystals, Diamond and Related Materials, Electrochimica Acta, Environment International, Environmental Engineering Science, European Physical Journal B, HELIYON, IEEE Transactions on Magnetics, Industrial & Engineering Chemistry Research, International Journal of Photoenergy, Journal of Advanced Oxidation Technologies, Journal of Alloys and Compounds, Journal of Applied Physics, Journal of Chemical Technology & Biotechnology, Journal of Hazardous Materials, Journal of Industrial and Engineering Chemistry, Journal of Luminescence, Journal of Magnetic Resonance, Journal of Materials Science, Journal of Nanoparticle Research, Journal of Non-Crystalline Solids, Journal of Photochemistry and Photobiology A: Chemistry, Journal of Physics and Chemistry of Solids, Langmuir, Materials, Materials Chemistry and Physics, Materials Letters, Materials Today Communications, Metals, Molecules, Nano Energy, Nanomaterials, Optical Materials, Physica B, Physica E, Physical Review B, Physical Review Letters, Physics Letters A, Polymers, Research on Chemical Intermediates, RSC Advances, SCIENCE CHINA Materials, Solid State Sciences, Talanta, Water Research

*Book proposal reviewer for Elsevier publisher:*

“Heterogeneous Nanocomposite-Photocatalysis for Water Purification” Edited by R. C. Pawar and C. S. Lee, William Andrew-Elsevier (2015).

“Nanotechnology for Water and Wastewater Treatment: Theory and Applications”  
Eds: A.Y. Shamseldin, A. Ahsan, Elsevier (2017).

*Remote evaluator* for the Research Council (ERC) *Consolidator grants*, Horizon 2020 Framework Programme.

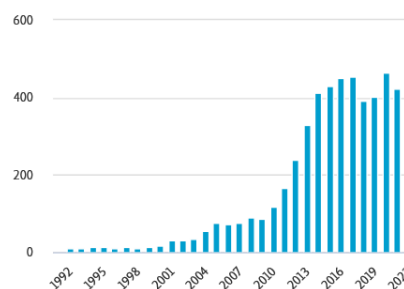
## SUMMARY OF ACADEMIC RECORDS

**Publications:** Total **175** (**135** papers in regular issues of international peer-reviewed journals and **40** papers in international conference proceedings published in peer-reviewed journals and books, and **1** (*invited*) book chapter.

Citations **5,034**

**Conferences:** **140** communications to international and **37** to national conferences.  
Citations (Scopus): **5034** (total citations)- **4660** (excluding self-citations).

*h-index:* **41** (total)-**40** (excluding self-citations).



## SELECTED PUBLICATIONS RELEVANT TO THE PROJECT

- M. Pylarinou et al., *Visible light trapping against charge recombination in FeO<sub>x</sub>-TiO<sub>2</sub> photonic crystal photocatalysts*, *Materials* **14** (23), 7117 (2021)
- M. A. Apostolaki et al., *Graphene quantum dot-TiO<sub>2</sub> photonic crystal films for photocatalytic applications*, *Nanomaterials* **10** (12), 2566 (2020)
- S. Loukopoulos et al. *Heterostructured CoO<sub>x</sub>-TiO<sub>2</sub> mesoporous/photonic crystal bilayer films for enhanced visible-light harvesting and photocatalysis*, *Materials* **13** (19), 4305 (2020)
- A. Toumazatou et al., *Boosting visible light harvesting and charge separation in surface modified TiO<sub>2</sub> photonic crystal catalysts with CoO<sub>x</sub> nanoclusters*, *Materials Advances* **1**, 2310–2322 (2020)
- A. Diamantopoulou et al. *Titania photonic crystal photocatalysts functionalized by graphene oxide nanocolloids*, *Appl. Catal. B* **240**, 277–290 (2019)
- V. Likodimos, *Photonic crystal-assisted visible light activated TiO<sub>2</sub> photocatalysis*, *Appl. Catal. B* **230**, 269-303 (2018)
- A. Toumazatou et al. *Slow-photon enhancement of dye sensitized TiO<sub>2</sub> photocatalysis*, *Mater. Lett.* **197**, 123-126 (2017)
- A. Diamantopoulou et al. *Magnetism in pristine and chemically reduced graphene oxide*, *J. Appl. Phys.* **121**, 043906 (2017)
- V. Likodimos et al., *Microstructure and charge trapping assessment in highly reactive mixed phase TiO<sub>2</sub> photocatalysts*, *Appl. Catal. B* **192**, 242-252 (2016)
- V. Likodimos et al., *Controlled surface functionalization of multiwall carbon nanotubes by HNO<sub>3</sub> hydrothermal oxidation*, *Carbon* **69**, 311 (2014)
- C. Han et al. *Innovative visible light-activated sulfur doped TiO<sub>2</sub> films for water treatment*, *Applied Catalysis B: Environmental* **107**, 77 (2011)
- V. Likodimos et al., *CLEAN WATER: water detoxification using innovative photocatalysts*, *Rev. Environ. Sci. Biotechnol.* **9**, 87-94 (2010)
- V. Likodimos et al. *Prolonged light and thermal stress effects on industrial dye-sensitized solar cells: a micro-Raman investigation on the long term stability of aged cells*, *J. Phys. Chem. C* **113**, 9412 (2009)
- V. Likodimos et al. *Phase composition, size, orientation and antenna effects of self-assembled anodized TiO<sub>2</sub> nanotube arrays: a polarized micro-Raman investigation*, *J. Phys. Chem. C* **112**, 12687 (2008).

**A. Publications in Peer-Reviewed Journals**

- [A. 135] M. Pylarinou, A. Toumazatou, E. Sakellis, E. Xenogiannopoulou, S. Gardelis, N. Boukos, A. Dimoulas, **V. Likodimos**, *Visible light trapping against charge recombination in FeO<sub>x</sub>-TiO<sub>2</sub> photonic crystal photocatalysts*, *Materials* **14** (23), 7117 (2021). **Editor's Choice**  
[Open Access](#)
- [A. 134] D. K. Manousou, S. Gardelis, M. Calamiotou, V. Likodimos, E. Syskakis, S. Gardelis, **V. Likodimos**, *Two-step current-temperature-induced electrical and optical modifications in VO<sub>2</sub> films around the metal–insulator transition*, *Journal of Applied Physics* **130**, 045107 (2021).
- [A. 133] I. Kochylas, S. Gardelis, **V. Likodimos**, K. P. Giannakopoulos, P. Falaras, A. G. Nassiopoulou, *Improved surface-enhanced-raman scattering sensitivity using Si nanowires/silver nanostructures by a single step metal-assisted chemical etching*, *Nanomaterials* **11** (7), 1760 (2021). [Open Access](#)
- [A. 132] G. V. Belessiotis, M. Arfanis, A. Kaltzoglou, **V. Likodimos**, Y. S. Raptis, P. Falaras, A. G. Kontos, *Temperature effects on the vibrational properties of the Cs<sub>2</sub>SnX<sub>6</sub> 'defect' perovskites (X = I, Br, Cl)*, *Materials Chemistry and Physics* **267**, 124679 (2021).
- [A. 131] M. Antoniadou, P. P. Falara, **V. Likodimos**, *Photocatalytic degradation of pharmaceuticals and organic contaminants of emerging concern using nanotubular structures*, *Current Opinion in Green and Sustainable Chemistry* **29**:100470 (2021).
- [A. 130] M. A. Apostolaki, A. Toumazatou, M. Antoniadou, E. Sakellis, E. Xenogiannopoulou, S. Gardelis, N. Boukos, P. Falaras, A. Dimoulas, **V. Likodimos**, *Graphene quantum dot-TiO<sub>2</sub> photonic crystal films for photocatalytic applications*, *Nanomaterials* **10** (12), 2566 (2020).  
[Open Access](#)
- [A. 129] S. Loukopoulos, A. Toumazatou, E. Sakellis, E. Xenogiannopoulou, N. Boukos, A. Dimoulas, **V. Likodimos**, *Heterostructured CoO<sub>x</sub>-TiO<sub>2</sub> mesoporous/photonic crystal bilayer films for enhanced visible-light harvesting and photocatalysis*, *Materials* **13** (19), 4305 (2020). **Selected for the Journal Cover.** [Open Access](#)
- [A. 128] A. G. Kontos, G. Em. Romanos, C. M. Veziri, A. Gotzias, M. K. Arfanis, E. Kouvelos, **V. Likodimos**, G. N. Karanikolos, P. Falaras, *Correlating vibrational properties with temperature and pressure dependent CO<sub>2</sub> adsorption in zeolitic imidazolate frameworks*, *Applied Surface Science* **529**, 147058 (2020).
- [A. 127] A. Toumazatou, M. Antoniadou, E. Sakellis, D. Tsoutsou, S. Gardelis, G. Em. Romanos, N. Ioannidis, N. Boukos, A. Dimoulas, P. Falaras, **V. Likodimos**, *Boosting visible light harvesting and charge separation in surface modified TiO<sub>2</sub> photonic crystal catalysts with CoO<sub>x</sub> nanoclusters*, *Materials Advances* **1**, 2310-2322 (2020). [Open Access](#)
- [A. 126] B. Wang, **V. Likodimos**, A. J. Fielding, R. A. W. Dryfe, *In situ Electron paramagnetic resonance spectroelectrochemical study of graphene-based supercapacitors: Comparison between chemically reduced graphene oxide and nitrogen-doped reduced graphene oxide*, *Carbon* **160**, 236-246 (2020). [Open Access](#)
- [A. 125] **V. Likodimos**, *Advanced Photocatalytic Materials*, *Materials* **13** (4), 821 (2020) (**Editorial**).  
[Open Access](#)
- [A. 124] D. Papadakis, A. Diamantopoulou, P. A. Pantazopoulos, D. Palles, E. Sakellis, N. Boukos, N. Stefanou, **V. Likodimos**, *Nanographene oxide-TiO<sub>2</sub> photonic films as plasmon-free substrates for surface-enhanced Raman scattering*, *Nanoscale* **11**, 21542–21553 (2019).
- [A. 123] A. Diamantopoulou, E. Sakellis, S. Gardelis, D. Tsoutsou, S. Glenis, N. Boukos, A. Dimoulas, **V. Likodimos**, *Advanced photocatalysts based on reduced nanographene oxide–TiO<sub>2</sub> photonic crystal films*, *Materials* **12**, 2518 (2019). [Open Access](#)



- [A. 122] M. K. Arfanis, C. P. Athanasekou, E. Sakellis, N. Boukos, N. Ioannidis, **V. Likodimos**, L. Sygellou, M. Bouroushian, A. G. Kontos, P. Falaras, *Photocatalytic properties of copper-modified core-shell titania nanocomposites*, Journal of Photochemistry & Photobiology A: Chemistry **370**, 145–155 (2019).
- [A. 121] A. Diamantopoulou, E. Sakellis, G. E. Romanos, S. Gardelis, N. Ioannidis, N. Boukos, P. Falaras, **V. Likodimos**, *Titania photonic crystal photocatalysts functionalized by graphene oxide nanocolloids*, Applied Catalysis B: Environmental **240**, 277–290 (2019).
- [A.120] **V. Likodimos**, *Photonic crystal-assisted visible light activated TiO<sub>2</sub> photocatalysis*, Applied Catalysis B: Environmental **230**, 269-303 (2018).
- [A.119] A. Toumazatou, M. K. Arfanis, P.-A. Pantazopoulos, A. G. Kontos, P. Falaras, N. Stefanou, **V. Likodimos**, *Slow-photon enhancement of dye sensitized TiO<sub>2</sub> photocatalysis*, Materials Letters **197**, 123–126 (2017).
- [A.118] A. Diamantopoulou, S. Glenis, G. Zolnierkiwicz, N. Guskos, **V. Likodimos**, *Magnetism in pristine and chemically reduced graphene oxide*, Journal of Applied Physics **121**, 043906 (2017).
- [A.117] M. Pelaez, P. Falaras, **V. Likodimos**, K. O'Shea, A. A. de la Cruz, P.S.M. Dunlop, J. A. Byrne, D. D. Dionysiou, *Use of selected scavengers for the determination of NF-TiO<sub>2</sub> reactive oxygen species during the degradation of microcystin-LR under visible light irradiation*, Journal of Molecular Catalysis A **425**, 183–189 (2016). **Editor's choice paper.**
- [A.116] **V. Likodimos**, A. Chrysi, M. Calamiotou, C. Fernández-Rodríguez, J. M. Doña-Rodríguez, D. D. Dionysiou, P. Falaras, *Microstructure and charge trapping assessment in highly reactive mixed phase TiO<sub>2</sub> photocatalysts*, Applied Catalysis B: Environmental **192**, 242–252 (2016).
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### PhD Thesis

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### C. International Conference Proceedings

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