

Curriculum Vitae

IOANNIS V. YENTEKAKIS



Professor of Physical Chemistry

(Heterogeneous Catalysis & Electrocatalysis; Surface Science; Nano-materials; Sustainable Energy; Fuel Cells)

Member of the University Council, TUC

Director: Lab. of Physical Chemistry & Chemical Processes

TECHNICAL UNIVERSITY OF CRETE (TUC)

School of Environmental Engineering

73100 Chania, Crete, Greece

SUMMARY:

Professor Ioannis V. Yentekakis has born in 1960 in Crete, Greece. He graduated in 1983 from the Department of Chemical Engineering, **University of Patras**, where in 1983-1987 he elaborated his Ph.D. under the supervision of Professor C.G. Vayenas. In 1987-1888 he was employed as postdoctoral fellow in the Department of Chemical Engineering at **Princeton University, NJ, USA**. In 1988 he returned to Greece, joined the ICE-HT/FORTH in Patras and the department of Chemical Engineering, University of Patras as a postdoctoral fellow and lecturer in both institutions. In 1995-2001 he served as Faculty Member (Lecturer and Assistant Professor) in the field of "Catalytic and Electrocatalytic Processes" in the department of Chemical Engineering, University of Patras. Then, in 2001 he was elected as Associate Professor in the Technical University of Crete (TUC) in the field of "Physical Chemistry" and in 2006 as Full Professor in the same field and University. In 2013 he moved to the School of Environmental Engineering of TUC, where he is working up to today. For many years (1989-today), he sustains very close collaboration (frequent visits as Visiting Professor) with the department of Chemistry, **Cambridge University, UK** (Prof. R.M. Lambert).

Prof. Yentekakis work is related with extended teaching (~100 under- and post-graduate semester courses of several titles), administrative responsibilities (e.g., Chairman, University Senate and University Council regular member) and research activities. His research activities lie mainly in the scientific areas of **Heterogeneous Catalysis and Electrocatalysis; Physical Chemistry of Surface and Interfaces; Chemical Kinetics, Materials Technology and Engineering; Reactors and Processes Engineering, etc.** In particular, his research interests and objectives are to discover, elucidate, understand and exploit surface, catalytic, electrocatalytic and promotional phenomena over complex composites and nano-structured materials. It involves determination of the electronic structure of adsorbed and reacting surface species as a function of reaction variables, especially in relation to reactivity/selectivity and molecular mechanisms, heterogeneous catalysis, environmental protection, etc. Aspects addressed in his projects, quite often have direct and immediate relevance to important technological applications. Current research includes investigation of surface-induced and support-mediated promotional effects and their synergy in heterogeneous catalysis/electrocatalysis; De-NOx and De-N₂O processes; natural gas, biogas and higher hydrocarbons reforming processes, emissions control systems, fuel cells. Surface and catalytic phenomena are studied by advanced analytical, microscopic and spectroscopic methods such as high resolution electron microscopy (HREM), in situ Defuse Reflectance Infrared Fourier Transform Spectroscopy (DRIFTS), X-ray photoelectron spectroscopy (XPS) X-ray diffraction (XRD), X-ray fluorescence (XRF), Physi-Chemi-sorption, Temperature-Programmed Desorption (TPD) and other techniques. In brief his research interests and activities can be entitled as:

- Heterogeneous catalysts synthesis, design and development: Synthesis of enhanced catalytic/electrocatalytic properties (nano-composites; structure, morphology, physicochemical characterization and evaluation of their catalytic/electrocatalytic performance under selected reactions relevance to important technological applications.
- Behavior, physical and morphological properties of surfaces and interfaces.
- Promotion and its origin in heterogeneous catalysis and electrocatalysis.
- Fuel Cells science and technology.
- Hydrogen energy, biofuels, natural gas, hydrocarbons reforming.
- Chemical and Processes Engineering.

His research work has been published in **104 papers in international peer-reviewed journals (mean IF/paper~4.6)**, which has been acknowledged with more than **2700 citations (h-index = 32)**. Special articles in scientific journals have been written by others exclusively about this research. He has also published **109 papers in international and national conference proceedings, 1 invited monograph** in international Journal, **3 chapters in international Handbooks** and **3 international patents**, while he has given >30 invited talks in conferences and institutions. He is **Associate Editor** of the open access journal of "Frontiers in Environmental Science", **Editorial Board Member in 4 international journals**, regular reviewer of more than 45 scientific Journals (>200 reviews) and in several research funding agencies (>60 proposals' reviews). He was member in the organizing and scientific committees and/or session chairman of numerous international and national scientific conferences. He has **supervised 7 Ph.D., 20 M.Sc., >50 diploma theses** and **developed 2 laboratories** (in the University of Patras and in the Technical University of Crete). He was member of the team awarded in 1992 by the National Athens Academy of Science with the Medal and Prize of chemistry. He has participated as senior key-researcher, principal investigator or program coordinator in over **32 research grants** (18 as coordinator) awarded by The European Union, The British Council, The Greek Ministry of Education and The Greek Ministry of Development-GSRT, etc. He develops and expands a valuable network of collaborators both in Greece and abroad, including worldwide appreciated academic and research institutions or companies.

Professor Yentekakis had a key-inventor role in several new physicochemical phenomena and technologies at the areas of Surface Catalysis and Electrochemistry, with extremely high scientific and practical impact, as for example:

- (i) The discovery of Non-Faradaic Electrochemical modification of Catalytic Activity" (NEMCA) or "Electrochemical Promotion" in Heterogeneous Catalysis [C.G. Vayenas, S. Bebelis, I.V. Yentekakis and H-G. Lintz, *Catal. Today*, 111, 303-445 (1992)],
- (ii) The development of a direct catalytic process for the conversion of methane to ethylene with >85% yield [Y. Jiang, I.V. Yentekakis and C.G. Vayenas, *Science*, 264, 1563-1566 (1994); "Chemical Engineers near Holy Grail", *Chem. & Ind.*, 12 p.444 (1994)],
- (iii) The development of several novel fuel cells, such as: the direct H₂S-fuel cell; the direct biogas fuel cell (internal dry reforming of methane); the direct coal gasification fuel cell [e.g., "Applied Highlights: a selection of the topics from the chemical literature", *Chem. & Ind.*, 17, 571-572 (1989); "A new process for direct coal gasification", *Platinum Metals Review*, 34, p. 35 (1990)],
- (iv) The development of simple (monometallic), economic and extremely active and selective automotive exhaust catalytic converters [e.g., V. Matsouka, M. Konsolakis, R.M. Lambert, I.V. Yentekakis, *Appl. Catal. B* 84, 715-722 (2008)], etc.
- (v) Catalyst nano-particles stabilization against thermal sintering [I. V. Yentekakis, G.i Goula, P. Panagiotopoulou, S.a Kampouri, M.J. Taylor, G. Kyriakou, R. M. Lambert, *Applied Catalysis B: Environmental*, **192 (2016)** 357-364; Yentekakis et al., *Catalysis Letters*, 2017 in press]

PERSONAL:

NATIONALITY : Greek
Born : Crete, November 28, 1960.
Current Address : Scholl of Environmental Engineering, Technical University of Crete, 73100 Chania, Crete, Greece
 Tel.: +30 28210 37752,
 Fax: +30 28210 37844
 e-mail: yyentek@isc.tuc.gr

UNIVERSITY EDUCATION:

- **1978-1983:** B.S. Diploma in Chemical Engineering, University of Patras, Greece
- **1983-1987:** Ph.D. in Chemical Engineering (catalysis-electrocatalysis), University of Patras.
Title: "Heterogeneous Catalytic Phenomena in Trickle Bed Reactors and in High Temperature Solid Oxide Fuel cells"

ACADEMIC EXPERIENCE, TRAINING AND SCIENTIFIC CAREER:

- **1987-1988:** Postdoctoral Fellow, Dept of Chemical Engineering **Princeton University**, NJ, USA
- **1989-Today:** Department of Chemistry, **Cambridge University, UK:** Close collaboration with Professor R.M. Lambert (numerous research visits)
- **1988-2001:** Academic career in **University of Patras** and **ICE/HT-FORTH** as bellow:
 - 1988-1991: Postdoctoral Fellow, Dept Chemical Engineering, University of Patras, GR.
 - 1988-2001: Senior researcher and collaborating faculty member, ICE/HT-FORTH, Patras, Gr.
 - 1991-1994: Temporary Faculty Member, Dept. Chemical Engineering, Univ. of Patras, Gr.
 - 1994-2000: Lecturer, Dept. Chemical Engineering, University of Patras, GR.
 - 2000-2001: Assistant Professor, Dept. Chemical Engineering, University of Patras, GR.
- **2001-Today:** Academic career in **Technical University of Crete** as bellow:
 - 2001-2006: **Associate Professor** in Physical Chemistry, Department of Sciences, TUC, Greece.
 - 2001-Today: **Director** of the "Physical Chemistry and Chemical Processes" laboratory.
 - 2006-Today: **Full Professor in Physical Chemistry** (Heterogeneous Catalysis/ Electrocatalysis/ Surfaces and Interfaces), Department of Sciences (2006-2013), and School of Environmental Engineering (2013-today), Technical University of Crete, Greece.
 - 2007-2009: **Chairman**, Department of Sciences, Technical University of Crete, GR.
 - 2013-Today: **Member of the University Council**, Technical University of Crete, GR.

RESEARCH ACTIVITIES:

My research activities in these positions involve the subjects:

- **Heterogeneous Catalysis** and the role of surface and structural promoters. Synthesis and characterization of novel nano-structured catalyst formulations and composites with specific performance in environmental and energy applications.
- **Physical Chemistry of Surfaces and Interfaces.** Surface characteristics and chemistry evaluation by means of advanced microscopic and spectroscopic techniques (e.g., SEM, TEM, DRIFTS, XPS, XRD, etc).
- **Electrochemical Promotion in Catalysis.** Non-Faradaic Electrochemical Modification of Catalytic Activity (the NEMCA effect).
- **Environmental Catalysis and pollution control:** Catalytic Emissions Control of pollutants (CO, NOx, N₂O, HCs, VOCs) from automotive and stationary sources; Catalytic Converters; Environmental Engineering

- **Electrocatalysis, Electrochemistry, Fuel Cells Science and Technology:** Analysis and design of novel fuel cell and electrochemical reactors; Direct Biogas Fuel Cells; Fused metal anode-Direct carbon fuel cells; H₂S fuel cells; Chemical Cogeneration.
- **Chemical kinetics and thermodynamics;** Reactor and Chemical Processes Engineering.
- **Natural gas, biogas and CO₂ valorization.**
- **Hydrogen energy:** Hydrocarbons and biofuels reforming for H₂ and syngas production.

ADMINISTRATIVE EXPERIENCES AND COMMITTEES:

- **University Council Regular Member,** Technical University of Crete (2013-2017)
- **Chairman,** Dept of Sciences, Technical University of Crete (2006-2009)
- **Regular Member of the Senate,** Technical University of Crete (2002-2003, 2007-2009)
- **Alternate Member of the Senate,** Technical University of Crete (2003-2007)
- **Member of the Committee of Graduate Studies** of the department of Sciences and the department of Environmental Engineering, Technical University of Crete (2001-today).
- **Member of the Central University Committee** for Economic and Research Development of the Technical University of Crete (2005-2007).

EDITORSHIP:

Member of the Editorial Advisory Board of the following journals:

α/α	<i>Journal Title</i>	<i>Responsibilities</i>	<i>Publisher</i>
1	Journal of Oil, Gas and Petrochemical Sciences	Editor	Ology Press http://ologyjournals.com/jogps
2	Frontiers in Environmental Science	Associate Editor	Frontiersin.org https://www.frontiersin.org/journals/environmental-science/sections/wastewater-management#
3	Molecules	Editorial Board	MDPI http://www.mdpi.com/journal/molecules
4	The Open Fuels and Energy Science Journal	Editorial Board	Bentham Open Publishers https://benthamopen.com/browse-by-subject/S8/1/
5	The Open Conference Proceedings Journal	Editorial Board	Bentham Open Publishers https://benthamopen.com/TOPROCJ/home/

TEACHING EXPERIENCE:

Extensive experience of lecturing and examining in physical chemistry, environmental engineering and chemical engineering: Teaching of more than 100 semester courses at every level with the following courses' titles:

(i) Undergraduate

- Heterogeneous Catalysis
- Heterogeneous Reactor Engineering
- Chemical Kinetics and Reactor Engineering
- Introduction to Chemical Engineering
- Unit Operations & Heat Transfer
- Chemical and Energy Technologies
- Air pollution control
- Physical Chemistry
- Thermodynamics
- Energy and Fuels
- Gas Emissions Control Technologies

(ii) Postgraduate

- Special Aspects in Catalysis.
- Analysis and Design of Heterogeneous Reactors.
- Air Pollution Control.
- Physical and chemical operations-Analysis and Design.
- Modern aspects in chemical and energy technologies.
- Surface Science and Heterogeneous Catalysis.
- Mathematical modeling and Design of Physical and Chemical Operations.
- Advanced catalytic and electrocatalytic energy processes.
- Catalytic, electrocatalytic and electrochemical promotion.
- Biorefineries- valorization of wastes.
- Supervision of numerous Ph.D. and M.Sc. students.

AWARDS & HONORS:

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|--|-----------|
| - Crete Orthodox Academy Award | 1978 |
| - Athens Academy Award in the field of Chemistry | 1992 |
| - Hellenic Refinery of Aspropyrgos Fellowship | 1984-1989 |
| - ICE/HT-FORTH, Fellowship | 1985-1987 |
| - Chairman of international or national conferences' sessions: | >20. |

MEMBER OF CONFERENCES' ORGANIZER and/or SCIENTIFIC COMMITTEES:

- 3rd Panhellenic Catalysis Symposium, Patras, GR., 1993
- 1st Panhellenic Symposium of Chemical Engineering, Patras, GR., 1997
- 2nd Panhellenic Symposium of Chemical Engineering, Thessaloniki, GR., 1999
- 9th EuroConference on Solid State Ionics-Transport Properties, Patras, GR., 2004
- 3rd Panhellenic Symposium of Chemical Engineering, Athens, GR., 2001.
- 55th Annual Meeting of the Inter. Society of Electrochemistry, Thessaloniki, GR., 2004
- 5th Panhellenic Symposium of Chemical Engineering, Thessaloniki, GR., 2005
- 2nd National Conference of Hydrogen Technologies, Thessaloniki, 2005
- 8th Panhellenic Catalysis Congress, Cyprus, GR., 2006
- 10th Panhellenic Catalysis Congress, Metsovo, GR., 2008
- 11th Panhellenic Catalysis Congress, Athens, GR., 2010
- International Conference of Hydrogen Production (IHP-11), Thessaloniki, 2011

- 12th Panhellenic Catalysis Congress, Crete, GR., 2012 (Symposium President and Organizer).
- 13th Panhellenic Catalysis Congress, Paleos Agios Athanasios Pellas, GR., 2014
- 14th Panhellenic Catalysis Congress, Patras, GR., 2016
- 11th Panhellenic Symposium of Chemical Engineering, Thessaloniki, GR, 2017
- 6th International Conference on Environmental chemistry and Engineering, July 24-25, 2017, Rome, Italy.
- International Conference on Renewable & Non Renewable energy Sources, November 9-11, 2017, Valencia, Spain.

REVIEWER OF SCIENTIFIC/RESEARCH ARTICLES:

More than 220 reviews in the following 46 international journals' titles:

<i>a/a</i>	<i>Journal Title</i>	<i>Number of reviewed manuscripts</i>
1	Applied Catalysis B-Environmental	36
2	Industrial & Engineering Chemistry Research	4
3	Journal of Catalysis	6
4	International Journal of Hydrogen Energy	12
5	Catalysis Today	2
6	Journal of Power Sources	57
7	Ionics	2
8	Advances in Environmental Research	1
9	Solid State Ionics	1
10	Electrochemical & Solid State Letters	1
11	Journal of the Electrochemical Society	1
12	Solar Energy Journal	1
13	Applied Surface Science	3
14	Water, Air & Soil Pollution: Focus	1
15	Studies in Surface Science and Catalysis	1
16	Journal of Alloys and Compounds	1
17	Journal of Solid State Electrochemistry	6
18	Electrochimica Acta	10
19	Reaction Kinetics, Mechanisms and Catalysis	7
20	Environmental Science & Pollution Research	3
21	Chemical Engineering Journal	2
22	Journal of Hazardous Materials	4
23	The Open Fuel & Energy Science Journal	16
24	The Open Environmental Engineering Journal	7
25	The Open Fuel Cells Journal	8
26	Τεχνικά Χρονικά επιστημονική έκδοση (ΤΕΕ)	4
27	ACS Catalysis	3
28	Materials Science & Engineering B	1
29	Applied Energy	2
30	Energy Conversion & Management	2
31	HEFAT2008	1
32	Materials	3
33	Catalysts	4
34	Environmental Science & Technology	1
35	Catalysis Letters	2
36	Journal of Electrochemical Energy Conversion and Storage (JEECS)	1
37	Journal of Taiwan Institute of Chemical Engineering (JTICE)	1
38	Nanomaterials	2
39	Water Science and Technology	1
40	Catalysis Communications	3
41	Water Science and Technology	1
42	Sustainable Energy & Fuels	1
43	Advances in Building Energy Research	1

44	ACS Sustainable Chemistry & Engineering	1
45	Renewable Energy	1
46	Applied Sciences	1
47	Journal of Oil, Gas and Petrochemical Sciences	1
	Total number of reviews	229

COLLABORATIONS:

Professor R.M. Lambert	Faculty of Chemistry, Cambridge University, UK
Professor and Dean M. Amiridis	Chancellor, University of Illinois at Chicago, USA.
Dr. N. Bonanos	Senior Scientist, Technical University of Denmark, Risø National Laboratory for Sustainable Energy (RISØ DTU).
Dr. G. Kyriakou	Faculty of Chemical Engineering and Applied Chemistry, Aston University, UK
Associate Prof. P. Leone	Faculty of Engineering, Politecnico di Torino, Italy
Professor X.E. Verykios	Faculty of Chemical Engineering, University of Patras, GR.
Professor C.G. Vayenas	Athens National Academy of Science and Faculty of Chemical Engineering, University of Patras, GR.
Professor D. Kondarides	Faculty of Chemical Engineering, University of Patras, GR.
Professor D. Mantzavinos	Faculty of Chemical Engineering, University of Patras, GR.
Professor D. Gournis	Faculty of Material Science Engineering, University of Ioannina, GR.
Dr. T. Ioannides	Research director A' of ICE/HT-FORTH, Patras, GR
Dr. S. Neophytides	Research director A' of ICE/HT-FORTH, Patras, GR
Dr. L. Nalbandian	Research faculty, NCR, Thessaloniki, GR
Professor M.A. Goula	Faculty of Environmental Engineering, Technological Education Institute of Western Macedonia, GR.
Professor N. Kalogerakis	Faculty of Environmental Engineering, Technical University of Crete, GR.
Professor E. Diamadopoulou	Faculty of Environmental Engineering, Technical University of Crete, GR.
Professor M. Stoukides	Faculty of Chemical Engineering, Aristotle Univ of Thessaloniki, GR
Professor N. Kallithrakas-Kontos	Faculty of Sciences, Technical University of Crete, GR
Professor G. Marnellos	Faculty of Engineering, University of Western Macedonia, GR.
Assistant Prof. P. Panagiotopoulou	Faculty of Environmental Engineering, Technical University of Crete, GR

PUBLISHED WORK:

a1) Research papers (publications) in international peer-reviewed journals: 104

(mean impact factor of the journals: 4.559)

a2) Research papers (publications) in national technical journals: 2

b) Patents: 3

c) Invited monograph (review paper of our work) in Scientific Journal: 1

d) Refereed publications in conference proceedings: 109

e) Invited Chapters in Handbooks published by Elsevier, Wiley-VCH and CRC publishers: 3

f) Technical reports (e.g., Reports to EU): > 200

g) Conference presentations: >150

h) Invited lectures in international conferences and academic or industrial institutions: >30

➤ **CITATION INDEX:** >2700 without self citations

➤ **H-index:** 32

➤ **Scientific articles written by others exclusively about our research:**

1. "Applied highlights: A selection of recent topics from the Chemical literature: Fuel cells for cogenerating electricity and SO₂", N.P. Freestone, *Chemistry and Industry*, 17, September 4, 571-572 (1989).
2. "A New Process for Direct Coal Gasification", *Platinum Metals Review*, 34(1), 35 (1990).
3. "Chemical Engineers near 'holy grail'", *Chemistry and Industry*, 12, p444 (1994).
4. "One-step Process converts methane to ethylene in 85% yield", *Chem. & Engin. News*, June 13, p41 (1994).
5. "Recycling reactions", P. Szuromi, *Science*, 264, 1513 (1994)

BOOKS AND CHAPTERS IN BOOKS: 11

1. "**Unit Operations**", I.V. Yentekakis, (in Greek), Patras University Press, 1995.
2. "**Physical Separation Processes: Analysis and Design**", I.V. Yentekakis, (in Greek), Kleidarithmos Publ., Athens, 2010.
3. "**Current methods of energy conversion and utilization. Fuel Cells**", I.V. Yentekakis, Patras University Press, (in Greek), 1998.
4. "**Atmospheric Pollution and Control**", I.V. Yentekakis, (in Greek), A. Tsiolas publ., Thessaloniki, 1999.
5. "**Atmospheric Pollution: effects, control and advanced alternative clean technologies**", I.V. Yentekakis, (in Greek), Kleidarithmos Publ. Athens, 2010.
6. "**Physical Chemistry**", I.V. Yentekakis, (in Greek), Technical University of Crete Press, 2001.
7. "**Thermodynamics**", I.V. Yentekakis, (in Greek), Technical University of Crete Press, 2002.
8. "**Environmentally friendly technologies for natural gas valorization and use**", I.V. Yentekakis, (in Greek), Technical University of Crete Press, 2000.
9. "**Analysis and Design of Chemical Reactors: Trickle-bed and Fluidized-bed Reactors**", I.V. Yentekakis, (in Greek), University of Patras, 1998.
8. "**Non-Faradaic Electrochemical Modification of Catalytic Activity A Status Report**". C.G. Vayenas, S. Bebelis, I.V. Yentekakis and H.-G. Lintz, **MONOGRAPH**, *Catal. Today*, **11**, 303-445 (1992)
9. "**Electrocatalysis and Electrochemical Reactors**", C.G. Vayenas, S. Bebelis, I.V. Yentekakis and S. Neophytides, *The CRC Handbook of Solid State Electrochemistry, Chapter 13*, 445-480 (1997)
10. "**Electrochemical Modification of Catalytic Activity**", C.G. Vayenas and I.V. Yentekakis, *Wiley-VCH Handbook of Heterogeneous Catalysis, Eds. G. Ertl, H. Knozinger and J. Weitkamp, Weinheim/New York, Vol. 3*, 1310-1325 (1997).
11. "**Three-Way Catalysis**", I.V. Yentekakis and M. Konsolakis, in *Perovskites and Related Mixed Oxides: Concepts and Applications* (P. Granger, V.I. Parvulescu, S. Kaliaguine and W. Prellier Eds.), 1st Ed., Wiley-VCH Verlag GmbH & Co. KGaA, Vol. 2, pp. 559-585 (2016).

PhDs, Masters and Diploma Works Supervising:

➤ **Supervisor of PhDs: 7**

- Dr. M. Konsolakis
- Dr. G. Goula
- Dr. T. Papadam
- Dr. V. Matsuka
- Mr E. Zabetakis
- Mrs. G. Botzolaki
- Mr G. Artemakis

➤ **Supervisor of MSc.> 20**

➤ **Supervisor of Engineering Diploma Works: >50**

RESEARCH PROJECTS:

- 1983-86, "Cogeneration of Electric Energy and Useful Chemicals in Fuel Cells", Funded by VW Stiftung, F.R. of Germany, (DM 90,000). Participation as Senior Researcher.
- 1987-90, "Multichannel fuel cell reactors ", Funded by EU, Non-nuclear Energy Program, EN3E/167/E, (100,000 €). Participation as Senior Researcher.
- 1988-92, "Fabrication and Evaluation of Small SOFC Reactors ", Funded by EU, Non-nuclear Energy Program, EN3E/D2/407/UK, (ECU 115,000). Participation as Senior Researcher.
- 1988-91, "Cogeneration of Electricity and Chemicals in Solid Electrolyte Cells with Catalytic Electrodes", Funded by VW Stiftung, F.R. of Germany, (DM 65,000). Participation as Senior Researcher.
- 1990-93, "Fundamental Studies of NonFaradaic Catalysis", Funded by EU, JOULE Programme, (100,000 €). Participation as senior Researcher.
- 1990-93, "Operational Tests of SOFC Modules and Use of SOFC as Chemical Reactors", Funded by EU, JOULE Programme, (65,000 €). Participation as Senior Researcher.
- 1991-94, "Use of SOFC as Chemical Reactor: Non-Faradaic Electrochemical Modification of Catalytic Activity and Selectivity of Partial Oxidation and CO Hydrogenation Catalysts", Funded by EU, JOULE Programme, (300,000 €). Participation as Senior Researcher.
- 1992-95, "Development of improved catalytic converters", Funded by EU, STRIDE Programme, (385,000 €). Participation as Senior Researcher.
- 1992-95, "New SOFC Materials and Technology", Funded by EU, CEC JOULE Programme, (98,000 €). Participation as Senior Researcher.
- 1992-93, "Operational Tests of SOFC and use of SOFC as Chemical Reactor", Funded by EU, CEC JOULE Programme, (50,000 €). Participation as Senior Researcher.
- 1993-96, "Fundamental Studies in Non-Faradaic Catalysis", Funded by British Council (Hellenic-British collaboration), (16,000 €). Participation as Senior Researcher.
- 1998-2001, "Promotion of environmentally important catalytic reactions" Funded by ICE/HT-FORTH, Internal ICE/HT-FORTH programme (9,000 €). **Coordinator.**
- 1999-2001, "Promotion by alkalies in emission control catalysis", Funded by GSRT and British Council, Athens (Greece-British Joint Research and Technology Programmes), (18,000 €). **Coordinator.**
- 2003-2007, "Kinetics, electrokinetics behavior and electrodic phenomena in novel fuel cells for environmentally important reactions", Funded by GSRT and EU, Program HERAKLEITOS, (65,000 €). **Coordinator.**
- 2005-2008, "A Novel process for direct production of electrical energy and hydrogen from urban and industry wastewater treatment", Funded by GSRT and EU, Program PENED, (114,000 €). **Coordinator.**
- 2005-2008, "Development of novel very effective and selective automotive catalytic converters", Funded by GSRT and EU, Program PENED, (114,000 €). **Coordinator.**
- 2006-2008, "Development of novel bi-metallic anodic materials for hydrocarbons' solid oxide fuel cells", Funded by GSRT and EU, Program Non-EU-242, (65,000 €). **Coordinator.**
- 2007-2008, "Hydrogen production from catalytic treatment of hydrocarbons and biofuels", Funded by Technical University of Crete, (5,000 €). **Coordinator.**
- 2008-2009, "Novel fuel cells for the production of electrical energy from biogas, biofuels and hydrocarbons", Funded by Technical University of Crete, (10,000 €). **Coordinator.**

- 2011-2014, "Advanced technology fuel cells for direct energy production from biogas and biomass derived fuels", Funded by GSRT and EU, Program HERAKLEITOS II, (45,000 €). **Coordinator.**
- 2011-2015, "Development of novel doubly promoted (surface and structural)catalytic systems for the simultaneous emissions' abatement of NO_x and N₂O", Funded by GSRT and EU, Program THALIS, (600,000 €). **Coordinator for TUC.**
- 2012-2014, "Power valorization and treatment of enological wastewater", Funded by GSRT and EU, Program ESPA, (140,000 €). **Coordinator for TUC.**
- 2016-2017, "Environmental management of CO₂: its conversion to added-value chemicals", Funded by Special Research Funds Account, Technical University of Crete, (12,000 €). **Coordinator.**

PATENTS:

- P1. European Patent EP 0480116 B1 "Metal-Solid Electrolyte Catalysts", C.G. Vayenas, S. Bebelis, I. V. Yentekakis and P. Tsiakaras (1996/30). **(Bayed by BASF)**
- P2. P C T Patent Application, No: GR-0001-94, Jan28, 1994 "Method and Apparatus for forming Ethylene or Ethane and Ethylene from Methane", C.G. Vayenas, I.V. Yentekakis and Jiang Yi (1994).
- P3. European Patent EP 0665047 B1 "New three-way catalysts with Pt, Rh and Pd, each supported on a separate support" X. Verykios, C.G. Vayenas, I.V. Yentekakis, E. Papadakis and C. Pliangos (1998/35).

I.V. Yentekakis LIST OF PUBLICATIONS

A. Peer-Reviewed International Journals:

- J1) "Mathematical Modelling of Cross-Flow, Solid State Electrochemical Reactors".
P.G. Debenedetti, C.G. Vayenas, I.V. Yentekakis, and L.L. Hegedus,
ACS Ser., **10**, 171-196 (1984).
Times Cited: **1** (from Web of Science) Impact Factor: 0.677 (2000)
- J2) "Cross-Flow, Solid State Electrochemical Reactors" A Steady-State Analysis".
C.G. Vayenas, P.G. Debenedetti, I.V. Yentekakis, and L.L. Hegedus,
Industrial & Engineering Chemistry: Fundamentals, **24**, 316-324 (1985)
Times Cited: **56** (from Web of Science) Impact Factor: 2.567 (2016)
- J3) "Effectiveness Factors for Reactions Between Volatile and Non-volatile Components in Partially Wetted Catalysts".
I.V. Yentekakis, C.G. Vayenas,
Chemical Engineering Science, **42**, 1323- 1332 (1987)
Times Cited: **28** (from Web of Science) Impact Factor: 2.750 (2016)
- J4) "Solid Electrolyte Aided Study of the Mechanism of CO Oxidation on Polycrystalline Platinum".
I.V. Yentekakis, S. Neophytides, C.G. Vayenas,
Journal of Catalysis, **111**, 152-170 (1988)
Times Cited: **69** (from Web of Science) Impact Factor: 7.354 (2016)
- J5) "The Effect of Electrochemical Oxygen Pumping on the Steady-State and Oscillatory Behavior of CO Oxidation on Polycrystalline Pt".
I.V. Yentekakis, C.G. Vayenas,
Journal of Catalysis, **111**, 170-188 (1988)
Times Cited: **93** (from Web of Science) Impact Factor: 7.354 (2016)
- J6) "Chemical Cogeneration in Solid Electrolyte Cells: The Oxidation of H₂S to SO₂".
I.V. Yentekakis and C.G. Vayenas,
Journal of the Electrochemical Society, **136(4)**, 996-1002 (1989)
Times Cited: **66** (from Web of Science) Impact Factor: 3.014 (2016)
- J7) "Non-Faradaic Electrochemical Modification of Catalytic Activity in Solid Electrolyte Cells".
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- C107) Effect of sintering temperature on the N₂O decomposition catalytic behaviour of Ir/Al₂O₃ catalysts.
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- C108) "Ionically conducting materials as effective catalyst supports with potential implementations on catalytic systems that play a critical role in environmental protection" **Invited plenary contribution.**
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