

### Σύντομο Προφίλ Ακαδημαϊκού Προσωπικού / Σύντομο Βιογραφικό Σημείωμα

<b>Πανεπιστήμιο:</b>	Τεχνολογικό Πανεπιστήμιο Κύπρου
<b>Επίθετο:</b>	Σάββα
<b>Όνομα:</b>	Πέτρος
<b>Βαθμίδα/Θέση:</b>	ΕΕΠ
<b>Σχολή:</b>	Γεωτεχνικών Επιστημών και Διαχείρισης Περιβάλλοντος
<b>Τμήμα:</b>	Χημικών Μηχανικών
<b>Επιστημονικό Πεδίο: *</b>	Χημεία - Κατάλυση

\* Εξειδίκευση

### Ακαδημαϊκά Προσόντα / Τίτλοι Σπουδών (οι καταχωρήσεις να γίνουν αρχίζοντας από τον πιο υψηλό τίτλο)

Ακαδημαϊκός Τίτλος	Έτος	Ίδρυμα	Τμήμα	Τίτλος Διατριβής (Καταχωρείται προαιρετικά)
Διδακτορικό	2008	Πανεπιστήμιο Κύπρου	Χημείας	Σύνθεση Νέων Καταλυτών με Εφαρμογές στις Τεχνολογίες $H_2$ Lean De- $NO_x$ και Παραγωγής Καθαρού $H_2$
Μεταπτυχιακό Δίπλωμα Ειδίκευσης	2003	Πανεπιστήμιο Πατρών	Χημείας	Η Επίδραση της Μεθόδου Παρασκευής Καταλυτών $Ni/Al_2O_3$ στην Αποτελεσματικότητά τους για την Υδρογόνωση του Βενζολίου που Περιέχεται στη Βενζίνη
Πτυχίο	2001	Πανεπιστήμιο Κύπρου	Χημείας	Επίδραση του Υποστρώματος στις Καταλυτικές Ιδιότητες Στηριζόμενων Καταλυτών Pt για την Αντίδραση $NO/H_2/O_2$

**Ιστορικό Εργοδότησης σε Ακαδημαϊκά Ιδρύματα/Ερευνητικά Κέντρα – να καταχωρηθούν οι τρεις (3) πιο πρόσφατες**

Περίοδος Εργοδότησης		Εργοδότης	Τόπος	Θέση
Από	Μέχρι			
2008	τώρα	ΤΕΠΑΚ	Λεμεσός	ΕΕΠ

**Κύρια άρθρα σε επιστημονικά περιοδικά με κριτές, μονογραφίες, βιβλία, εκδόσεις συνεδρίων. Να καταχωρηθούν τα πέντε (5) πιο πρόσφατα και άλλα πέντε (5) επιλεγμένα – (μέγιστος αρ. δέκα (10))**

A/A	Έτος	Τίτλος	Άλλοι συγγραφείς	Επιστημονικό Περιοδικό και Εκδότης / Συνέδριο	Τόμος	Σελ.
1	2021	Immobilized Ag-nanoparticles (iNPs) for Environmental Applications: Elucidation of Immobilized Silver-induced Inhibition Mechanism of Escherichia coli	S.P. Theophilou, C. Antoniou, L. Potamiti, A. Hadzisavvas, M. Panayiotidis, C.N. Costa	Journal of Environmental Chemical Engineering	9	106001
2	2019	New Insights into the Antimicrobial Treatment of Water on Ag-Supported Solids	C.P. Theologides, G.G. Olympiou, C.N. Costa	Journal of Marine Science and Technology	94	1134
3	2018	Regulating the catalytic properties of Pt/Al <sub>2</sub> O <sub>3</sub> through nanoscale inkjet printing	V.K. Chatziiona, B.K. Constantinou, G.G. Olympiou, K. Kapnisis, A. Anayiotos, C.N. Costa	Catalysis Communications	103	69
4	2017	The New Concept of Antimicrobial Catalysis: Disinfection of Ships Ballast Water	C. P. Theologides, S.P. Theofilou, G.G. Olympiou and C.N. Costa	Journal of Environmental and Toxicological Studies	1	1
5	2017	Mechanistic Aspects (SSITKA-DRIFTS) of the Catalytic Denitrification of Water with Hydrogen on Pd-Cu Supported Catalysts	Christodoulos P. Theologides, Georgios G. Olympiou, Costas N. Costa	Applied Catalysis B: Environmental	205	443

6	2015	Catalytic Removal of Pharmaceutical Compounds in Water Medium Under an H <sub>2</sub> Stream over Various Metal-supported Catalysts: A promising process	Pantelidou, N.A., Theologides, C.P., Olympiou, G.G., Vasquez, M.I., Costa, C.N.	Desalination and Water Treatment	53	3363
7	2011	Hydrogen Lean-DeNO <sub>x</sub> as an Alternative to the Ammonia and Hydrocarbon Selective Catalytic Reduction (SCR)	C.N. Costa	Catalysis Reviews	53	91
8	2008	The Influence of Reaction Temperature on the Chemical Structure and Concentration of Adsorbed NO <sub>x</sub> During H <sub>2</sub> -SCR Over Pt/MgO-CeO <sub>2</sub> Catalyst	A.M. Efstathiou	Journal of Catalysis	257	324
9	2007	Benzene Hydrogenation Over Ni/Al <sub>2</sub> O <sub>3</sub> Catalysts Prepared by Conventional and Sol-Gel Techniques	K. Goundani, J. Vakros, K. Bourikas, Ch. Fountzoula, D. Vattis, A. Lykourghiotis and Ch. Kordulis	Applied Catalysis B: Environmental	79	199
10	2005	Hydrogen Production by Ethylene Decomposition Over Ni Supported on Novel Carbon Nanotubes and Carbon Nanofibers	G.G. Olympiou, C.N. Costa, V.A. Ryzhkov and A.M. Efstathiou	Catalysis Today	102	78

**Εκθέσεις (όπου εφαρμόζεται). Να καταχωρηθούν οι πέντε (5) πιο πρόσφατες και άλλες πέντε (5) επιλεγμένες – (μέγιστος αρ. δέκα (10))**

A/A	Ημερομηνία	Θέμα	Διεθνής / Τοπική	Τοποθεσία*	Ρόλος στην Έκθεση
1	9/2008	Novel Selective Catalytic Reduction of NO <sub>x</sub> Using Hydrogen in Strongly Oxidizing Conditions (H <sub>2</sub> -SCR) at Low-Temperatures (120-250°C) for Stationary NO <sub>x</sub> Control	Διεθνής	Κοπεγχάγη	Ομιλητής

2	7/2017	Hydrogen for industrial and transportation applications	Διεθνής	Αγία Πετρούπολη	Ομιλητής
3	12/2019	International Conference on Sustainable Biowaste Management	Διεθνής	Λεμεσός	President of the Organization Committee
4	6/2013	International Conference on Waste and Wastewater Management, Science and Technology	Διεθνής	Λεμεσός	President of the Organization Committee
5	10/2010	Waste to Energy Research and Technology (WTERT) bi-annual meeting	Διεθνής	Νέα Υόρκη	Ομιλητής
6	8/2009	9 <sup>th</sup> European Catalysis Congress, Europacat IX	Διεθνής	Σαλαμάνκα	Ομιλητής
7	8/2007	8 <sup>th</sup> European Catalysis Congress, Europacat VIII	Διεθνής	Τούρκου	Ομιλητής
8	7/2007	III International Conference on Catalysis: Fundamentals and Applications	Διεθνής	Νοβοσιμπίρσκ	Ομιλητής
9	6/2009	6 <sup>th</sup> International Conference on Environmental Science and Technology	Διεθνής	Τέξας	Ομιλητής
10	6/2007	The Gordon Conference: De-NO <sub>x</sub> Catalysis	Διεθνής	Βουκουρέστι	Ομιλητής

\* Να καταχωρηθεί ο χώρος, η πόλη κ.τ.λ.

**Ερευνητικά Projects. Να καταχωρηθούν τα πέντε (5) πιο πρόσφατα και άλλα πέντε (5) επιλεγμένα – (μέγιστος αρ. δέκα (10))**

A/A	Ημερομηνία	Τίτλος	Επιχορήγηση Από:	Ρόλος στο Ερευνητικό Projects *
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1	2018 - 2020	Decentralized management of bio-waste and their utilization using alternative and innovative treatment systems	INTERREG-V-A	Συντονιστής
2	2018 - 2020	Management and Protection of Sensitive Artworks from Indoor Air Pollution	INTERREG-V-A	Εταίρος
3	2016 - 2017	Hydrogen generator for higher fuel efficiency and lower carbon emissions in maritime transport	Horizon 2020	Συντονιστής
4	2004 - 2007	Development of an Industrial Catalytic Converter for the Reduction of Nitrogen Oxides with the Use of Hydrogen Under Strongly Oxidizing Conditions	ΙΔΕΚ	Ερευνητής
5	2009 - 2011	Development of a Novel Catalytic System for the Reduction of Nitrogen Oxides (NOx) from Ship Exhaust Gas Streams	ΙΔΕΚ	Ερευνητής
6	2011 - 2014	Prevention and Combating of Marine Pollution in Ports and Marinas	INTERREG IV	Ερευνητής
7	2005 - 2008	Denitrification of Industrial Waste Waters	ΙΔΕΚ	Ερευνητής
8	2004 - 2007	Hydrogen Production by Steam Reforming of Non-Recyclable Waste Solvents	ΙΔΕΚ	Ερευνητής
9	2009 - 2011	Development and Operation of an Integrated, Autonomous Prototype Membrane System for the Advanced Treatment of Wastewaters in Cyprus	ΙΔΕΚ	Ερευνητής
10	2009 - 2011	Novel Technology for the De-Pollution of Ship Exhaust Gasses	ΙΔΕΚ	Ερευνητής

*\*Ρόλος στο Ερευνητικό Project: πχ Επιστημονικός Συντονιστής, Μέλος Ερευνητικής Ομάδας, Ερευνητής, Βοηθός Ερευνητής, άλλα.*

**Ακαδημαϊκές Συμβουλευτικές Υπηρεσίες ή/και Συμμετοχή σε Συμβούλια / Επιτροπές - Να καταχωρηθούν**

**οι πέντε (5) πιο πρόσφατες (Καταχωρούνται προαιρετικά)**

A/A	Περίοδος	Οργανισμός	Τίτλος Θέσης ή Υπηρεσίας	Κύριες Δραστηριότητες

**Βραβεύσεις / Διεθνείς Διακρίσεις (όπου εφαρμόζεται). Να καταχωρηθούν οι πέντε (5) πιο πρόσφατες και άλλες πέντε (5) επιλεγμένες – (μέγιστος αρ. δέκα (10) (Καταχωρούνται προαιρετικά)**

Ref. Number	Date	Title	Awarded by:
1	20/7/2004	1 <sup>st</sup> International Award Winner for Best Poster Presentation	EPFL, Ελβετία
2	8/7/2007	1 <sup>st</sup> International Award Winner for Best Oral Presentation	Ινστιτούτο Κατάλυσης Boreskov, Ρωσία
3	28/9/2007	1 <sup>st</sup> Nicos Symeonides Award for Excellence in Research in Cyprus and Europe	ΙΔΕΚ
4	3/9/2008	Royal Award Prize Winner of the Danish Academy of Sciences	Ακαδημία Επιστημών της Δανίας
5	28/6/2017	1 <sup>st</sup> International Award Winner for Best Poster Presentation	Διεθνής Οργανισμός Νερού
6	27/7/2015	National Winner and European Finalist of the Climate Launchpad 2015 EU Programs	Climate-KIC

**Άλλες Διακρίσεις. Να καταχωρηθούν οι πέντε (5) πιο πρόσφατες και άλλες πέντε (5) επιλεγμένες (μέγιστος αρ. δέκα (10) (Καταχωρούνται προαιρετικά)**

A/A	Ημερομηνία	Τίτλος	Κύριες Δραστηριότητες
1	15/10/2008	Catalyst Containing Platinum on a Support Consisting of Nano-crystal Magnesium Oxide and Cerium Dioxide Towards H <sub>2</sub> -SCR	Patent licensed to Linde A.G. for 15 years

2	21/4/2010	Catalyst Containing Platinum and Palladium for the Selective Reduction of NOx with Hydrogen (H <sub>2</sub> -SCR)	Patent licensed to Linde A.G. for 15 years
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### Academic Personnel Short Profile / Short CV

<b>University:</b>	Cyprus University of Technology
<b>Surname:</b>	Petros
<b>Name:</b>	Savva
<b>Rank/Position:</b>	Special Teaching Staff
<b>Faculty:</b>	Geotechnical Sciences and Environmental Management
<b>Department:</b>	Chemical Engineering
<b>Scientific Domain: *</b>	Chemistry - Catalysis

\* *Field of Specialization*

Academic qualifications (list by highest qualification)				
Qualification	Year	Awarding Institution	Department	Thesis title (Optional Entry)
PhD	2008	University of Cyprus	Chemistry	Synthesis of Novel Catalysts with Applications in H <sub>2</sub> Lean de-NOx Technologies (H <sub>2</sub> -SCR) and Pure H <sub>2</sub> Production
MSc	2003	University of Patras	Chemistry	The Influence of the Synthesis Method of Ni/Al <sub>2</sub> O <sub>3</sub> Catalysts on the Reaction of Hydrogenation of Benzene that Exists in Gasoline
BSc	2001	University of Cyprus	Chemistry	Influence of the Support on the Catalytic properties of Platinum Supported Catalysts for the NO/H <sub>2</sub> /O <sub>2</sub> Reaction



**Employment history in Academic Institutions/Research Centers – List by the three (3) most recent**

Period of employment		Employer	Location	Position
From	To			
2008	now	Cyprus University of Technology	Limassol	Special Teaching Staff

**Key refereed journal papers, monographs, books, conference publications etc. List the five (5) more recent and other five (5) selected –(max total 10)**

Ref. Number	Year	Title	Other authors	Journal and Publisher / Conference	Vol.	Pages
1	2021	Immobilized Ag-nanoparticles (iNPs) for Environmental Applications: Elucidation of Immobilized Silver-induced Inhibition Mechanism of Escherichia coli	S.P. Theophilou, C. Antoniou, L. Potamiti, A. Hadzisavvas, M. Panayiotidis, C.N. Costa	Journal of Environmental Chemical Engineering	9	106001
2	2019	New Insights into the Antimicrobial Treatment of Water on Ag-Supported Solids	C.P. Theologides, G.G. Olympiou, C.N. Costa	Journal of Marine Science and Technology	94	1134
3	2018	Regulating the catalytic properties of Pt/Al <sub>2</sub> O <sub>3</sub> through nanoscale inkjet printing	V.K. Chatziiona, B.K. Constantinou, G.G. Olympiou, K. Kapnisis, A. Anayiotos, C.N. Costa	Catalysis Communications	103	69
4	2017	The New Concept of Antimicrobial Catalysis: Disinfection of Ships Ballast Water	C. P. Theologides, S.P. Theofilou, G.G. Olympiou and C.N. Costa	Journal of Environmental and Toxicological Studies	1	1
5	2017	Mechanistic Aspects (SSITKA-DRIFTS) of the Catalytic Denitrification of	Christodoulos P. Theologides, Georgios G. Olympiou, Costas N. Costa	Applied Catalysis B: Environmental	205	443

		Water with Hydrogen on Pd-Cu Supported Catalysts				
6	2015	Catalytic Removal of Pharmaceutical Compounds in Water Medium Under an H <sub>2</sub> Stream over Various Metal-supported Catalysts: A promising process	Pantelidou, N.A., Theologides, C.P., Olympiou, G.G., Vasquez, M.I., Costa, C.N.	Desalination and Water Treatment	53	3363
7	2011	Hydrogen Lean-DeNO <sub>x</sub> as an Alternative to the Ammonia and Hydrocarbon Selective Catalytic Reduction (SCR)	C.N. Costa	Catalysis Reviews	53	91
8	2008	The Influence of Reaction Temperature on the Chemical Structure and Concentration of Adsorbed NO <sub>x</sub> During H <sub>2</sub> -SCR Over Pt/MgO-CeO <sub>2</sub> Catalyst	A.M. Efstathiou	Journal of Catalysis	257	324
9	2007	Benzene Hydrogenation Over Ni/Al <sub>2</sub> O <sub>3</sub> Catalysts Prepared by Conventional and Sol-Gel Techniques	K. Goundani, J. Vakros, K. Bourikas, Ch. Fountzoula, D. Vattis, A. Lykourghiotis and Ch. Kordulis	Applied Catalysis B: Environmental	79	199
10	2005	Hydrogen Production by Ethylene Decomposition Over Ni Supported on Novel Carbon Nanotubes and Carbon Nanofibers	G.G. Olympiou, C.N. Costa, V.A. Ryzhkov and A.M. Efstathiou	Catalysis Today	102	78

**Exhibitions (where applicable). List the five (5) more recent and other five (5) selected.  
(max total 10)**

<b>Ref. Number</b>	<b>Date</b>	<b>Topic</b>	<b>International / Local</b>	<b>Location*</b>	<b>Role in Exhibition</b>
1	9/2008	Novel Selective Catalytic Reduction of NO <sub>x</sub> Using Hydrogen in Strongly Oxidizing Conditions (H <sub>2</sub> -SCR) at Low-Temperatures (120-250°C) for Stationary NO <sub>x</sub> Control	<b>International</b>	Copenhagen	Presentation
2	7/2017	Hydrogen for industrial and transportation applications	<b>International</b>	Saint Petersburg	Presentation
3	12/2019	International Conference on Sustainable Biowaste Management	<b>International</b>	Limassol	President of the Organization Committee
4	6/2013	International Conference on Waste and Wastewater Management, Science and Technology	<b>International</b>	Limassol	President of the Organization Committee
5	10/2010	Waste to Energy Research and Technology (WERT) bi-annual meeting	<b>International</b>	New York	Presentation
6	8/2009	9 <sup>th</sup> European Catalysis Congress, Europacat IX	<b>International</b>	Salamanca	Presentation
7	8/2007	8 <sup>th</sup> European Catalysis Congress, Europacat VIII	<b>International</b>	Turku	Presentation
8	7/2007	III International Conference on Catalysis: Fundamentals and Applications	<b>International</b>	Novosibirsk	Presentation
9	6/2009	6 <sup>th</sup> International Conference on Environmental Science and Technology	<b>International</b>	Texas	Presentation
10	6/2007	The Gordon Conference: De-NO <sub>x</sub> Catalysis	<b>International</b>	Bucharest	Presentation

<b>Research Projects. List the five (5) more recent and other five (5) selected (max total 10)</b>				
<b>Ref. Number</b>	<b>Date</b>	<b>Title</b>	<b>Funded by</b>	<b>Project Role*</b>
1	2018 - 2020	Decentralized management of bio-waste and their utilization using alternative and innovative treatment systems	INTERREG-V-A	Project Coordinator
2	2018 - 2020	Management and Protection of Sensitive Artworks from Indoor Air Pollution	INTERREG-V-A	Partner
3	2016 - 2017	Hydrogen generator for higher fuel efficiency and lower carbon emissions in maritime transport	Horizon 2020	Project Coordinator
4	2004 - 2007	Development of an Industrial Catalytic Converter for the Reduction of Nitrogen Oxides with the Use of Hydrogen Under Strongly Oxidizing Conditions	Research Promotion Foundation	Researcher
5	2009 - 2011	Development of a Novel Catalytic System for the Reduction of Nitrogen Oxides (NOx) from Ship Exhaust Gas Streams	Research Promotion Foundation	Researcher
6	2011 - 2014	Prevention and Combating of Marine Pollution in Ports and Marinas	INTERREG IV	Researcher
7	2005 - 2008	Denitrification of Industrial Waste Waters	Research Promotion Foundation	
8	2004 - 2007	Hydrogen Production by Steam Reforming of Non-Recyclable Waste Solvents	Research Promotion Foundation	Researcher
9	2009 - 2011	Development and Operation of an Integrated, Autonomous Prototype Membrane System for the	Research Promotion Foundation	Researcher Researcher

		Advanced Treatment of Wastewaters in Cyprus		
10	2009 - 2011	Novel Technology for the De-Pollution of Ship Exhaust Gasses	Research Promotion Foundation	Researcher

*\*Project Role: i.e. Scientific/Project Coordinator, Research Team Member, Researcher, Assistant Researcher, other*

<b>Academic Consulting Services and/or Participation in Councils / Boards/ <i>Researcher</i> Editorial Committees. List the five (5) more recent (Optional Entry)</b>				
Ref. Number	Period	Organization	Title of Position or Service	Key Activities

<b>Awards / International Recognition (where applicable). List the five (5) more recent and other five (5) selected. (max total 10) (Optional Entry)</b>			
Ref. Number	Date	Title	Awarded by:
1	20/7/2004	1 <sup>st</sup> International Award Winner for Best Poster Presentation	EPFL, Swiss
2	8/7/2007	1 <sup>st</sup> International Award Winner for Best Oral Presentation	Boreskov Institute of Catalysis, Russia
3	28/9/2007	1 <sup>st</sup> Nicos Symeonides Award for Excellence in Research in Cyprus and Europe	IΔEK
4	3/9/2008	Royal Award Prize Winner of the Danish Academy of Sciences	Danish Academy of Sciences
5	28/6/2017	1 <sup>st</sup> International Award Winner for Best Poster Presentation	International Water Association
6	27/7/2015	National Winner and European Finalist of the Climate Launchpad 2015 EU Programs	Climate-KIC

**Other Achievements. List the five (5) more recent and other five (5) selected.  
(max total 10) (Optional Entry)**

<b>Ref. Number</b>	<b>Date</b>	<b>Title</b>	<b>Key Activities:</b>
1	15/10/2008	Catalyst Containing Platinum on a Support Consisting of Nano-crystal Magnesium Oxide and Cerium Dioxide Towards H <sub>2</sub> -SCR	Patent licensed to Linde A.G. for 15 years
2	21/4/2010	Catalyst Containing Platinum and Palladium for the Selective Reduction of NO <sub>x</sub> with Hydrogen (H <sub>2</sub> -SCR)	Patent licensed to Linde A.G. for 15 years