

### Σύντομο Προφίλ Ακαδημαϊκού Προσωπικού / Σύντομο Βιογραφικό Σημείωμα

<b>Πανεπιστήμιο:</b>	Τεχνολογικό Πανεπιστήμιο Κύπρου
<b>Επίθετο:</b>	Κώστα
<b>Όνομα:</b>	Κώστας
<b>Βαθμίδα/Θέση:</b>	Καθηγητής
<b>Σχολή:</b>	Γεωτεχνικών Επιστημών και Διαχείρισης Περιβάλλοντος
<b>Τμήμα:</b>	Χημικών Μηχανικών
<b>Επιστημονικό Πεδίο: *</b>	Περιβαλλοντική Κατάλυση, Τεχνολογίες Επεξεργασίας και Διάθεσης Αποβλήτων

\* Εξειδίκευση

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

Ακαδημαϊκός Τίτλος	Έτος	Ίδρυμα	Τμήμα	Τίτλος Διατριβής (Καταχωρείται προαιρετικά)
Πτυχίο (BSc)	1998	Πανεπιστήμιο Κύπρου	Φυσικών Επιστημών	
Μάστερ (MSc)	2000	Πανεπιστήμιο Κύπρου	Χημείας	
Διδακτορικό (PhD)	2003	Πανεπιστήμιο Κύπρου	Χημείας	

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

Περίοδος Εργοδότησης		Εργοδότης	Τόπος	Θέση
Από	Μέχρι			
Ιούνιος 1997	Σεπτέμβριος 1997	University of Manchester Institute of Science and Technology	Manchester, UK	Research Assistant
Ιανουάριος 2005	Δεκέμβριος 2005	Πανεπιστήμιο Κύπρου	Λευκωσία, Κύπρος	Επισκέπτης Λέκτορας

Ιανουάριος 2006	Απρίλιος 2007	Πανεπιστήμιο Κύπρου	Λευκωσία, Κύπρος	Επισκέπτης Επίκουρος Καθηγητής
Ιούνιος 2007	Νοέμβριος 2010	Τεχνολογικό Πανεπιστήμιο Κύπρου	Λεμεσός, Κύπρος	Λέκτορας
Δεκέμβριος 2010	Μαΐος 2016	Τεχνολογικό Πανεπιστήμιο Κύπρου	Λεμεσός, Κύπρος	Αναπληρωτής Καθηγητής
Ιούνιος 2016	Σήμερα	Τεχνολογικό Πανεπιστήμιο Κύπρου	Λεμεσός, Κύπρος	Καθηγητής

<b>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))</b>						
<b>A/A</b>	<b>Έτος</b>	<b>Τίτλος</b>	<b>Άλλοι συγγραφείς</b>	<b>Επιστημονικό Περιοδικό και Εκδότης / Συνέδριο</b>	<b>Τόμος</b>	<b>Σελ.</b>
1	2011	A Highly Active, Selective and Stable Ag/Mg-Ce-Al-O Catalyst for the NO/C <sub>2</sub> H <sub>5</sub> OH/O <sub>2</sub> Reaction	L. Valanidou	Applied Catalysis B: Environmental / Elsevier	107	164-176
2	2017	Mechanistic Aspects (SSITKA-DRIFTS) of the Catalytic Denitrification of Water with Hydrogen on Pd-Cu Supported Catalysts	Christodoulos P. Theologides, Georgios G. Olympiou, Petros G. Savva, Konstantinos Kapnisis, Andreas Anayiotos	Applied Catalysis B: Environmental / Elsevier	205	443-454
3	2017	Assessment of toxic heavy metals concentrations in soils and wild and cultivated plant species in Limni abandoned copper mining site, Cyprus	Christou, A., Theologides, C.P., Kalavrouziotis, I.K., Varnavas, S.P	Journal of Geochemical Exploration / Elsevier	178	16-22
4	2015	Evaluation of a MBR Pilot Treating Industrial Wastewater with a High COD/N Ratio	Babatsouli, Panagiota; Palogos, Ioannis; Michalodimitraki, Eleni; Kalogerakis, Nicolas	Journal of Chemical Technology and Biotechnology / Wiley	90(1)	26-33
5	2011	Hydrogen Lean DeNO <sub>x</sub> as an Alternative to the Ammonia and Hydrocarbon Selective Catalytic Reduction (SCR)	Petros G. Savva	Catalysis Reviews / Taylor and Francis	53(2)	91

6	2017	Preventing maritime transport of pathogens: the remarkable antimicrobial properties of Ag supported catalysts for ships ballast water disinfection	C. P. Theologides, S. P. Theofilou, A. Anayiotos	Water Science and Technology / IWA	76(3)	712-718
7	2011	On the Insides of the Mechanism of the Selective Catalytic Denitrification of Water	Christodoulos Theologides.	Applied Catalysis B: Environmental / Elsevier	102	54-61
8	2017	Plant Extracts as an Effective Solution to Mitigate Marine Pollution	Kaniklides Stavros	Global journal of Science Frontier Research: Marine Science	17(1)	
9	2018	Regulating the Catalytic Properties of Pt/Al <sub>2</sub> O <sub>3</sub> through Nanoscale Inkjet Printing	Vasiliki K. Chatziiona, Barbara K. Constantinou, Petros G. Savva, Georgios G. Olympiou, Konstantinos Kapnisis, Andreas Anayiotos	Catalysis Communications / Elsevier	103	69-73
10	2018	New insights into the antimicrobial treatment of water on Ag-supported solids	Stathis P Theofilou Barbara K Constantinou Vasiliki K Chatziiona Nantia Pantelidou Semyon Plyastsov Konstantinos Kapnisis Petros G Savva Igor Meshkovsky Andreas Anayiotos	Journal of Chemical Technology and Biotechnology / Wiley	94(4)	1134-1143

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

<b>Ερευνητικά Projects. Να καταχωρηθούν τα πέντε (5) πιο πρόσφατα και άλλα πέντε (5) επιλεγμένα – (μέγιστος αρ. δέκα (10))</b>				
<b>A/A</b>	<b>Ημερομηνία</b>	<b>Τίτλος</b>	<b>Επιχορήγηση Από:</b>	<b>Ρόλος στο Ερευνητικό Projects *</b>
1	2014-2017	Sustainable management of livestock waste for the removal/recovery of nutrients (LIVEWASTE)	LIFE+ Environment Policy and Governance	Coordinator/Lead Partner
2	2013-2015	Risk Assessment Analysis on Offshore Platforms in South East Mediterranean Area (RAOP-MED)	Neighbourhood and Partnership Instrument (ENPI-CBCMED)	Partner / Group Leader
3	2011-2014	Prevention and Combating of Marine Pollution in Ports and Marinas (PREMARPOL)	INTERREG-IV	Partner / Group Leader
4	2012-2015	Development and Application of Integrated Coastal Management Plans in Rhodes and Cyprus (AKTH)	INTERREG-IV	Partner / Group Leader
5	2018-2021	Decentralized management of biowaste and utilization with the use of alternative and novel treatment systems	INTERREG-V	Coordinator/Lead Partner
6	2018-2022	European Network for Environmental Citizenship	COST Association	Partner
7	2010-2014	Demonstration of an integrated waste-to-energy system for energy generation from	LIFE+ Environment	Coordinator/Lead Partner

		biodegradable organic waste and wastewater	Policy and Governance	
8	2018-2021	Management and Protection of Sensitive Artworks from Indoor Air Pollution	INTERREG-V	Partner / Group Leader
9	2010-2014	From Treated Wastewater to Alternative Water Resources in Semi-Arid Regions	LIFE+ Environment Policy and Governance	Partner / Group Leader
10	2011-2013	Evaluation of a Novel Microsieve-Membrane Bioreactor for Wastewater Treatment	Cyprus Research Promotion Foundation	Coordinator/Lead Partner

*\*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
1	2014-Σήμερα	Elsevier; Taylor and Francis; Wiley; Springer; IWA; RSC	Reviewer / Editorial Board Member	Reviewing / Manuscripts Processing for more than twenty (20) different International Scientific Journals
2	2007- Σήμερα	EUREKA Eurostars	Acting Reviewer	Reviewer for Project Proposals
3	2011-Σήμερα	National Council for Science and Technology of Greece	Reviewer	Reviewer for the ARISTEIA Programme
4	2002-Σήμερα	EURACHEM	Member of the Organizing Committee	Organization of Regional EURACHEM Workshops

5	2013-Σήμερα	International Water Association (IWA)	Member	
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**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	2001	Granted Participation at the 1st EFCATS School on Catalysis	European Federation of Catalysis Societies
2	2001	1st European Award Winner for Recent Developments in Environmental Catalysis, at the 1st EFCATS School on Catalysis	European Federation of Catalysis Societies
3	2003	Honored Oral Presentation at the 2nd Regional Symposium of Chemistry, "Chemistry and the Environment"	National Science Academy of Serbia
4	2004	1st International Award Winner for Best Poster Presentation, at the 1st CarboCat World Congress (Carbon for Catalysis)	National Science Academy of Switzerland
5	2007	1st International Award Winner for Best Oral Presentation, at the 3rd International Conference, "CATALYSIS: FUNDAMENTALS AND APPLICATION",	Russian Academy of Sciences
6	2007	Winner of the 1st Nicos Symeonides Award for Excellence in Research in Cyprus and Europe	Cyprus Research Promotion Foundation

7	2008	Royal Award Prize Winner of the Danish Academy of Sciences, COPENMIND	Royal Danish Academy of Sciences
8	2013	1st International Award Winner for Best Poster Presentation, at the International Water Association's Congress on Waste and Wastewater Management, Science and Technology (WWMST)	Scientific Conference Committee
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**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	2003	<b>Patent:</b> A.M. Efstathiou, C.N. Costa and J.L.G. Fierro, "Novel Catalyst for the NO Reduction to N <sub>2</sub> with the use of Hydrogen Under Lean De-NO <sub>x</sub> Conditions" a. International Patent Cooperation Treaty: WO 03068390 b. US Patent: US 2005/0090393 c. European Patent: EP 1475149 A1 d. Australian Patent: AU 2003206981 A1 e. Spanish Patent: ES 2192985 f. Japan Patent: JP2005516767	Inventor
2	2007	<b>Patent:</b> Angelos M. Efstathiou, Petros G. Savva, Costas N. Costa, "Catalyst Containing Platinum on a Support Consisting of Nano-crystal Magnesium Oxide and Cerium Dioxide Towards H <sub>2</sub> -SCR" • European Patent Application No. EP 08010888.8.	Inventor
3	2008	<b>Patent:</b> Angelos M. Efstathiou, Petros G. Savva, Costas N. Costa, "Catalyst	Inventor

		Containing Platinum and Palladium for the Selective Reduction of NOx with Hydrogen (H <sub>2</sub> -SCR)” • European Patent Application No. EP 08010887.0.	
4	2010	<b>Patent:</b> Costas N. Costa, Lilian Valanidou, Petros G. Savva and Christodoulos Theologides, “Novel Catalyst for the NO Reduction to N <sub>2</sub> with the use of Ethanol or Ethanol-Hydrogen Mixtures Under Lean De-NOx Conditions” • European Patent Application No. 10390001.5/EP10390001	Work Coordinator / Inventor
5	2006-2021	Patents (No. 1-3) have been Licensed (15-year agreement) to LINDE Engineering AG for Three (3) Novel Stationary Environmental Applications	Inventor / Major Contributor
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### Academic Personnel Short Profile / Short CV

<b>University:</b>	Cyprus University of Technology
<b>Surname:</b>	Costa
<b>Name:</b>	Costas
<b>Rank/Position:</b>	Professor
<b>Faculty:</b>	Geotechnical Sciences and Environmental Sciences
<b>Department:</b>	Chemical Engineering
<b>Scientific Domain: *</b>	Environmental Catalysis, Environmental Pollution Control

\* *Field of Specialization*

### Academic qualifications (list by highest qualification)

Qualification	Year	Awarding Institution	Department	Thesis title (Optional Entry)
BSc	1998	University of Cyprus	Natural Sciences	
MSc	2000	University of Cyprus	Chemistry	
PhD	2003	University of Cyprus	Chemistry	

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

Period of employment		Employer	Location	Position
From	To			
June 1997	September 1997	University of Manchester Institute of Science and Technology	Manchester, UK	Research Assistant
January 2005	December 2005	University of Cyprus	Nicosia, Cyprus	Visiting Lecturer
January 2006	April 2007	University of Cyprus	Nicosia, Cyprus	Visiting Assistant Professor

June 2007	November 2010	Cyprus University of Technology	Limassol, Cyprus	Lecturer
December 2010	May 2016	Cyprus University of Technology	Limassol, Cyprus	Associate Professor
June 2016	Today	Cyprus University of Technology	Limassol, Cyprus	Professor

<b>Key <u>refereed</u> journal papers, monographs, books, conference publications etc. List the five (5) more recent and other five (5) selected –(max total 10)</b>						
<b>Ref. Number</b>	<b>Year</b>	<b>Title</b>	<b>Other authors</b>	<b>Journal and Publisher / Conference</b>	<b>Vol.</b>	<b>Pages</b>
1	2011	A Highly Active, Selective and Stable Ag/Mg-Ce-Al-O Catalyst for the NO/C <sub>2</sub> H <sub>5</sub> OH/O <sub>2</sub> Reaction	L. Valanidou	Applied Catalysis B: Environmental / Elsevier	107	164-176
2	2017	Mechanistic Aspects (SSITKA-DRIFTS) of the Catalytic Denitrification of Water with Hydrogen on Pd-Cu Supported Catalysts	Christodoulos P. Theologides, Georgios G. Olympiou, Petros G. Savva, Konstantinos Kapnisis, Andreas Anayiotos	Applied Catalysis B: Environmental / Elsevier	205	443-454
3	2017	Assessment of toxic heavy metals concentrations in soils and wild and cultivated plant species in Limni abandoned copper mining site, Cyprus	Christou, A., Theologides, C.P., Kalavrouziotis, I.K., Varnavas, S.P	Journal of Geochemical Exploration / Elsevier	178	16-22
4	2015	Evaluation of a MBR Pilot Treating Industrial Wastewater with a High COD/N Ratio	Babatsouli, Panagiota; Palogos, Ioannis; Michalodimitraki, Eleni; Kalogerakis, Nicolas	Journal of Chemical Technology and Biotechnology / Wiley	90(1)	26-33
5	2011	Hydrogen Lean DeNO <sub>x</sub> as an Alternative to the Ammonia and Hydrocarbon Selective Catalytic Reduction (SCR)	Petros G. Savva	Catalysis Reviews / Taylor and Francis	53(2)	91

6	2017	Preventing maritime transport of pathogens: the remarkable antimicrobial properties of Ag supported catalysts for ships ballast water disinfection	C. P. Theologides, S. P. Theofilou, A. Anayiotos	Water Science and Technology / IWA	76(3)	712-718
7	2011	On the Insides of the Mechanism of the Selective Catalytic Denitrification of Water	Christodoulos Theologides.	Applied Catalysis B: Environmental / Elsevier	102	54-61
8	2017	Plant Extracts as an Effective Solution to Mitigate Marine Pollution	Kaniklides Stavros	Global journal of Science Frontier Research: Marine Science	17(1)	
9	2018	Regulating the Catalytic Properties of Pt/Al <sub>2</sub> O <sub>3</sub> through Nanoscale Inkjet Printing	Vasiliki K. Chatziiona, Barbara K. Constantinou, Petros G. Savva, Georgios G. Olympiou, Konstantinos Kapnisis, Andreas Anayiotos	Catalysis Communications / Elsevier	103	69-73
10	2018	New insights into the antimicrobial treatment of water on Ag-supported solids	Stathis P Theofilou Barbara K Constantinou Vasiliki K Chatziiona Nantia Pantelidou Semyon Plyastsov Konstantinos Kapnisis Petros G Savva Igor Meshkovsky Andreas Anayiotos	Journal of Chemical Technology and Biotechnology / Wiley	94(4)	1134-1143

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

Ref. Number	Date	Topic	International / Local	Location*	Role in Exhibition
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*\*Specify venue, geographic location etc*

<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	2014-2017	Sustainable management of livestock waste for the removal/recovery of nutrients (LIEWASTE)	LIFE+ Environment Policy and Governance	Coordinator/Lead Partner
2	2013-2015	Risk Assessment Analysis on Offshore Platforms in South East Mediterranean Area (RAOP-MED)	Neighbourhood and Partnership Instrument (ENPI-CBCMED)	Partner / Group Leader
3	2011-2014	Prevention and Combating of Marine Pollution in Ports and Marinas (PREMARPOL)	INTERREG-IV	Partner / Group Leader
4	2012-2015	Development and Application of Integrated Coastal Management Plans in Rhodes and Cyprus (AKTH)	INTERREG-IV	Partner / Group Leader
5	2018-2021	Decentralized management of biowaste and utilization with the use of alternative and novel treatment systems	INTERREG-V	Coordinator/Lead Partner
6	2018-2022	European Network for Environmental Citizenship	COST Association	Partner

7	2010-2014	Demonstration of an integrated waste-to-energy system for energy generation from biodegradable organic waste and wastewater	LIFE+ Environment Policy and Governance	Coordinator/Lead Partner
8	2018-2021	Management and Protection of Sensitive Artworks from Indoor Air Pollution	INTERREG-V	Partner / Group Leader
9	2010-2014	From Treated Wastewater to Alternative Water Resources in Semi-Arid Regions	LIFE+ Environment Policy and Governance	Partner / Group Leader
10	2011-2013	Evaluation of a Novel Microsieve-Membrane Bioreactor for Wastewater Treatment	Cyprus Research Promotion Foundation	Coordinator/Lead Partner

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

**Academic Consulting Services and/or Participation in Councils / Boards/ Editorial Committees.  
List the five (5) more recent (Optional Entry)**

Ref. Number	Period	Organization	Title of Position or Service	Key Activities
1	2014-Today	Elsevier; Taylor and Francis; Wiley; Springer; IWA; RSC	Reviewer / Editorial Board Member	Reviewing / Manuscripts Processing for more than twenty (20) different International Scientific Journals
2	2007- Today	EUREKA Eurostars	Acting Reviewer	Reviewer for Project Proposals
3	2011-Today	National Council for Science and Technology of Greece	Reviewer	Reviewer for the ARISTEIA Programme
4	2002-Today	EURACHEM	Member of the Organizing Committee	Organization of Regional EURACHEM Workshops
5	2013-Today	International Water Association (IWA)	Member	

**Awards / International Recognition (where applicable). 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>Awarded by:</b>
1	2001	Granted Participation at the 1st EFCATS School on Catalysis	European Federation of Catalysis Societies
2	2001	1st European Award Winner for Recent Developments in Environmental Catalysis, at the 1st EFCATS School on Catalysis	European Federation of Catalysis Societies
3	2003	Honored Oral Presentation at the 2nd Regional Symposium of Chemistry, "Chemistry and the Environment"	National Science Academy of Serbia
4	2004	1st International Award Winner for Best Poster Presentation, at the 1st CarboCat World Congress (Carbon for Catalysis)	National Science Academy of Switzerland
5	2007	1st International Award Winner for Best Oral Presentation, at the 3rd International Conference, "CATALYSIS: FUNDAMENTALS AND APPLICATION",	Russian Academy of Sciences
6	2007	Winner of the 1st Nicos Symeonides Award for Excellence in Research in Cyprus and Europe	Cyprus Research Promotion Foundation
7	2008	Royal Award Prize Winner of the Danish Academy of Sciences, COPENMIND	Royal Danish Academy of Sciences
8	2013	1st International Award Winner for Best Poster Presentation, at the International Water Association's Congress on Waste and	Scientific Conference Committee

		Wastewater Management, Science and Technology (WWMST)	
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**Other Achievements. List the five (5) more recent and other five (5) selected.  
(max total 10) (Optional Entry)**

Ref. Number	Date	Title	Key Activities:
1	2003	<p><b>Patent:</b> A.M. Efstathiou, C.N. Costa and J.L.G. Fierro, “Novel Catalyst for the NO Reduction to N<sub>2</sub> with the use of Hydrogen Under Lean De-NOx Conditions”</p> <p>a. International Patent Cooperation Treaty: WO 03068390  b. US Patent: US 2005/0090393  c. European Patent: EP 1475149 A1  d. Australian Patent: AU 2003206981 A1  e. Spanish Patent: ES 2192985  f. Japan Patent: JP2005516767</p>	Inventor
2	2007	<p><b>Patent:</b> Angelos M. Efstathiou, Petros G. Savva, Costas N. Costa, “Catalyst Containing Platinum on a Support Consisting of Nano-crystal Magnesium Oxide and Cerium Dioxide Towards H<sub>2</sub>-SCR”</p> <ul style="list-style-type: none"> <li>• European Patent Application No. EP 08010888.8.</li> </ul>	Inventor
3	2008	<p><b>Patent:</b> Angelos M. Efstathiou, Petros G. Savva, Costas N. Costa, “Catalyst Containing Platinum and Palladium for the Selective Reduction of NOx with Hydrogen (H<sub>2</sub>-SCR)”</p> <ul style="list-style-type: none"> <li>• European Patent Application No. EP 08010887.0.</li> </ul>	Inventor

4	2010	<p><b>Patent:</b> Costas N. Costa, Lilian Valanidou, Petros G. Savva and Christodoulos Theologides, "Novel Catalyst for the NO Reduction to N<sub>2</sub> with the use of Ethanol or Ethanol-Hydrogen Mixtures Under Lean De-NOx Conditions"</p> <ul style="list-style-type: none"> <li>• European Patent Application No. 10390001.5/EP10390001</li> </ul>	Work Coordinator / Inventor
5	2006-2021	<p>Patents (No. 1-3) have been Licensed (15-year agreement) to LINDE Engineering AG for Three (3) Novel Stationary Environmental Applications</p>	Inventor / Major Contributor
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