

# **Curriculum Vitae**

## **Research and Scientific Activity**

**Dr George Avgouropoulos**

**Last updated: October 2020**

## BRIEF CURRICULUM VITAE

### PERSONAL

**Name/Surname:** George Avgouropoulos

**Father's name:** Athanasios

**Mother's name:** Harikleia

**Date of birth:** 11/07/1974

**Place of birth:** Athens

**Nationality:** Hellenic

**Marital status:** Married (two children)

**Home address:** Andrea Papandreou 13, Patras, GR-26332  
Tel.: +30 2611 110735, Mobile: +30 6973216076

**Office address:** Department of Materials Science  
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## EDUCATION

- 1992-1997**    **University of Patras, Patras, Greece,**  
Diploma in Chemical Engineering, October 1997, *Grade: 7.03/10.00*  
*Diploma Thesis: "In vitro calcification of bioprosthetic heart valves"*  
*Advisor: Prof. P.G. Koutsoukos*
- 1997-2000**    **Department of Chemical Engineering, University of Patras & FORTH/ICE-HT,**  
Patras, Greece  
M.Sc. in Energy and Environment, University of Patras  
*Thesis: "CuO-CeO<sub>2</sub> catalysts for application in fuel processors"*  
*Advisor: Prof. X.E. Verykios*
- 1997-2003**    **Department of Chemical Engineering, University of Patras & FORTH/ICE-HT,**  
Patras, Greece  
Ph. D in Chemical Engineering, University of Patras (Date of Ph. D defense:  
July 2003)  
*Thesis: "Development of a catalytic process for the selective catalytic oxidation  
of CO in the presence of excess hydrogen"*  
*Advisor: Prof. X.E. Verykios*

## FELLOWSHIPS/AWARDS/DISTINCTIONS

- Feb. 1998 – Jul. 2003**    **Postgraduate Fellow of FORTH/ICE-HT, Patras, Greece**
- Feb. 2006 - Feb. 2007**    **Postdoctoral Fellowship (State Scholarship Foundation,**  
Greece)
- Jun. 2006**    The paper No. 3 (G. Avgouropoulos et al. *Catal. Today* **75**  
**(2002) 157-167**"), has been recognised in the "**Top-50 most cited  
articles**" as published in Elsevier's Catalysis journals 2001  
2005 (as cited by Scopus)
- Jun. 2007**    The paper No. 3 (G. Avgouropoulos et al. *Catal. Today* **75**  
**(2002) 157-167**"), has been recognised in the "**Top-50 most cited  
articles**" as published in Elsevier's Catalysis journals 2002

- 2006 (as cited by Scopus)
- Jun. 2008** The paper No. 4 (**G. Avgouropoulos et al. *Appl. Catal. A: Gen.* 244 (2003) 155-167**”), has been recognised in the "**Top-50 most cited articles**" as published in Elsevier's Catalysis journals
- 2003-2007 (as cited by Scopus)
- Sep. 2014** Best poster award for the work: “Pt/TiO<sub>2</sub> and Pt/CeO<sub>2</sub> nanostructured materials for fuel cell applications” presented by A. Paxinou (*post-graduate student under my supervision*) at the 30<sup>th</sup> Panhellenic Conference on Solid-State Physics and Materials Science, Heraklion, Crete, Greece, 21-24 September, 2014.
- Jul. 2016** Young Researcher Award given to P. Angelopoulou (*Ph.D. student under my supervision*) for best oral presentation of the work: “Combustion-synthesized LiMn-based spinel nanostructures as cathode materials for lithium-ion batteries nanostructured materials for fuel cell applications” during the 13th International Conference on Nanosciences & Nanotechnologies (NN16)

## EMPLOYMENT/OCCUPATION

- Feb. 1998 – Jul. 2003** **Postgraduate researcher of FORTH/ICE-HT**, Patras, Greece
- Jul. 2003 – Dec. 2016** **Collaborating researcher of FORTH/ICE-HT**, Patras, Greece
- Sept. 2005 – Jul. 2010** **Assistant Professor**, Department of Agricultural Products Technology, School of Agricultural Technology, Technological Educational Institution of Kalamata, Greece
- Oct. 2008 – Aug. 2013** **Lecturer** (fixed term), Department of Materials Science University of Patras, Greece
- Sept. 2009 – Dec. 2009** **Consultant** of ADVENT TECHNOLOGIES S.A. (development of innovative materials for fuel cells)
- Jan. 2014 – Sep. 2016** **Lecturer** in the field of: “Materials engineering in microphase-nanophase or/and molecular or/and biomolecular materials or/and devices – experimental direction”  
Department of Materials Science, University of Patras, Greece

- Oct. 2016 – Oct. 2020**      **Assistant Professor** in the field of: “Materials engineering in microphase-nanophase materials or/and devices – experimental direction”, Dep. Of Materials Science, Univ. of Patras, Greece
- Oct. 2020 – today**      **Associate Professor** in the field of: “Materials engineering in microphase-nanophase materials and devices for energy chemical technologies”, Dep. of Materials Science, Univ. of Patras, Greece

## TEACHING EXPERIENCE

### Undergraduate Programs

- “**Electronic Materials Production Processes**” (teaching assistant), core course of 3<sup>rd</sup> year, Chemical Engineering Department, University of Patras (1997-1998).
- “**Organic Chemistry Laboratory**”, (teaching assistant), core course of 2<sup>nd</sup> year, Chemical Engineering Department, University of Patras (1998-2000).
- “**Polymers Laboratory**” (teaching assistant), core course of 3<sup>rd</sup> year, Chemical Engineering Department, University of Patras (1998-2000).
- “**Physicochemical & Instrumental Analysis of Vegetative Products**” core course of 2<sup>nd</sup> year, Department of Agricultural Products Technology, School of Agricultural Technology, Technological Educational Institution of Kalamata (2005-2010).
- “**Topics in Industrial and Technological Applications of Materials I**”, optional course of 4<sup>th</sup> year, Department of Materials Science, University of Patras (winter semesters 2008/2009, 2009/2010, 2010/2011, 2011/2012, 2012/2013, 2013/2014).
- “**Topics in Industrial and Technological Applications of Materials II**”, optional course of 4<sup>th</sup> year, Department of Materials Science, University of Patras (spring semesters 2008-2013, 2018/2019).
- “**Materials Science Laboratory III**”, core course of 2<sup>nd</sup> year, Department of Materials Science, University of Patras (spring semesters 2008-2018).
- “**Physical Chemistry Laboratory**”, core course of 3<sup>rd</sup> year, Department of Materials Science, University of Patras (winter semesters 2009-2020).
- “**Materials Science Laboratory I**”, core course of 1<sup>st</sup> year, Department of Materials Science, University of Patras (spring semesters 2010/2011, 2012/2013, 2017-2020).
- “**Materials and Environment**”, optional course of 3<sup>rd</sup> year, Department of Materials Science, University of Patras (spring semesters 2010-2017, winter semesters 2019-2020).

- “**Chemistry III**”, core course of 3<sup>rd</sup> year, Department of Materials Science, University of Patras (winter semesters 2010-2013).
- “**Physics Laboratory II**”, core course of 1<sup>st</sup> year, Department of Materials Science, University of Patras (spring semester 2011/2012).
- “**Chemistry Laboratory I**”, core course of 1<sup>st</sup> year, Department of Materials Science, University of Patras (winter semesters 2012-2017).
- “**Chemistry Laboratory**”, core course of 1<sup>st</sup> year, Department of Materials Science, University of Patras (spring semesters 2017-2020).
- “**Chemistry I**”, core course of 1<sup>st</sup> year, Department of Materials Science, University of Patras (winter semester 2016-2020).
- “**Materials for Renewable Energy**”, optional course of 4<sup>th</sup> year, Department of Materials Science, University of Patras (spring semesters 2013-2018).
- “**Physical Chemistry**”, core course of 2<sup>nd</sup> year, Department of Materials Science, University of Patras (winter semesters 2014-2020).
- “**Materials for Catalytic Processes**”, optional course of 4<sup>th</sup> year, Department of Materials Science, University of Patras (spring semester 2019/2020).
- Supervisor of several research diploma thesis (>25)

#### **Postgraduate (MSc and PhD) Programs**

- “Environmental Applications & Impacts of Nanotechnology”, optional course of Interdisciplinary Postgraduate Program on “Environmental Sciences”, University of Patras (winter semester 2015/2016, 2019/2020).
- “Design, Synthesis and Processing of Advanced Materials”, core course of 1<sup>st</sup> year, Postgraduate Program of Materials Science Department, University of Patras (spring semester 2014/2015, 2015/2016, 2016/2017, 2017/2018, 2018/2019).
- “Micro/Nano-Technology of Materials”, core course of 1<sup>st</sup> year, Postgraduate Program of Materials Science Department, University of Patras (2018/2019, 2019/2020, 2020/2021).
- Supervisor of the Master Diploma Thesis of Pinelopi Angelopoulou, “Development of Li-Mn spinel nanostructures for energy applications”, Department of Materials Science, University of Patras, 2015.
- Supervisor of the Master Diploma Thesis of Alexandra Paxinou, “Development of Pt/CeO<sub>2</sub> and Pt/TiO<sub>2</sub> nanostructured catalysts for the production of hydrogen from methanol”, Department of Materials Science, University of Patras, 2015.
- Supervisor of the Master Diploma Thesis of Konstantinos Kappis (**Caratheodori**)

**scholarship; University of Patras program**), “Effect of the synthesis parameters of hydrothermal method on the catalytic properties of nanoceria”, Department of Materials Science, University of Patras, 2018.

- Supervisor of the Master Diploma Thesis of Christos Tapeinos, “Photoelectrocatalytic production of hydrogen”, Department of Materials Science, University of Patras, July 2020.
- Supervisor of the PhD Thesis of Pinelopi Angelopoulou (**HFRI scholarship**), “Development of anodic and cathodic nanostructured materials for lithium batteries applications”, Department of Materials Science, University of Patras, 2016-today (Date of defense: March 2020).
- Supervisor of the PhD Thesis of Christos Papadopoulos (**Caratheodori scholarship; University of Patras program**), “Tuning the physicochemical properties of nanostructured copper-cerium catalysts via a hydrothermal method”, Department of Materials Science, University of Patras, (ongoing).
- Supervisor of the PhD Thesis of Konstantinos Kappis, “Development of catalytic methanol processors for application in high temperature fuel cells”, Department of Materials Science, University of Patras (ongoing).

#### **Other Programs**

- “Modern materials for renewable energy sources” & “XRF, XPS and AES”, Program for Knowledge Updating of University Graduates entitled "Materials Science for Advanced Technologies", Department of Materials Science, University of Patras (02/2015-09/2015)

### **PROFESSIONAL SOCIETIES AND ACTIVITIES**

- Reviewer in 35 international journals (ISI-Journal Citation Reports 2020):

... of Elsevier...

*Journal of Catalysis, Catalysis Communications, Applied Catalysis A: General, Applied Catalysis B: Environmental, International Journal of Hydrogen Energy, Fuel Processing Technology, The Chemical Engineering Journal, Journal of Colloid and Interface Science, Journal of Physics and Chemistry of Solids, Journal of Alloys and Compounds, Ceramics International, Electrochimica Acta, Materials Science in Semiconductor Processing, Energy Conversion and Management, Applied Surface Science, Catalysis Today, Journal of Power Sources, Journal of Molecular Catalysis A: Chemical, Renewable Energy, Applied Energy*

... of Springer ...

*Catalysis Letters*,

... of Wiley ...

*Energy Science & Engineering, ChemSusChem, ChemCatChem*

... of ACS ...

*Journal of the American Chemical Society, ACS Applied Materials & Interfaces, The Journal of Physical Chemistry, ACS Applied Nanomaterials, Industrial & Engineering Chemistry Research*

... of MDPI ...

*Catalysts, Energies, Processes, Nanomaterials, Materials, Sensors*

- Romanian Research Council reviewer
- Hong-Kong Research Council reviewer
- Polish Research Council Reviewer
- Greek GSRT reviewer
- Editorial Board Member, *The Open Environmental Engineering Journal* (Bentham Science), 2008-
- Editorial Board Member, FRONTIERS, 2008-
- Editorial Board Member, *Energies*, (MDPI), 2019-
- **Editor** of Book: “*Environmental catalysis over gold-based materials*”, RSC, August 2013.
- **Guest Editor** of SI: *Tuning the Physicochemical Properties of Nanostructured Materials Through Advanced Preparation Methods* (Nanomaterials, MDPI, 2020)
- Technical Chamber of Greece
- Association of Greek Chemical Engineers
- Hellenic Catalysis Society
- Session Chair, 4<sup>th</sup> EFCATS School on Catalysis, St. Petersburg, Russia, 2006.
- Session Chair, 9<sup>th</sup> Panhellenic Catalysis Symposium, Leykada, Greece, 2006.
- Member of the Organizing Committee, Meeting for Materials Science & Industry, 10 years of operation of the Department of Materials Science, Patras, Greece, June 1<sup>st</sup>, 2010.
- Session Chair, XIX International Conference on Chemical Reactors, September 5-9, 2010, Vienna, Austria.
- Session Chair, 12<sup>th</sup> Panhellenic Catalysis Symposium, Chania, Greece, 2012.
- Member of the Scientific Committee, 12<sup>th</sup> Panhellenic Catalysis Symposium, Chania, Greece, 2012.



- Member of the Scientific Committee, 13<sup>th</sup> Panhellenic Catalysis Symposium, Palaios Agios Athanasios Pellas, Greece, 2014.
- Session Chair, 10<sup>th</sup> Panhellenic Conference on Chemical Engineering, Patras, Greece, 2015.
- Member of the Scientific Committee, “Innovative Manufacturing Engineering & Energy International Conference, IManEE 2016, Kallithea Chalkidiki, Greece, 2016
- Member of the Scientific Committee, 14<sup>th</sup> Panhellenic Catalysis Symposium, Patras, Greece, 2016.
- Member of the Organizing Committee, 14<sup>th</sup> Panhellenic Catalysis Symposium, Patras, Greece, 2016.
- Session Chair, EMN Dubai Meeting, Energy Materials Nanotechnology, Dubai, United Arab Emirates, 2016.
- Member of the Scientific Committee, 15<sup>th</sup> Panhellenic Catalysis Symposium, Ioannina, Greece, 2018.
- Session Chair, 15<sup>th</sup> Panhellenic Catalysis Symposium, Ioannina, Greece, 2018.
- Member of the Scientific Committee, Virtual Conference of Young Scientists: Mineral Resources-Environment-Chemical Engineering, Kozani, Western Macedonia, Greece, 2021.
- Member of the Organizing Committee, 8th International Conference on micro and nanosciences and nanotechnologies (Micro&Nano2020), Patras, Greece, 2021.
- Member of the Scientific Committee, 16<sup>th</sup> Panhellenic Catalysis Symposium, Chania, Greece, 2021.

## ADMINISTRATIVE ACTIVITIES

- Member of the General Assembly in the Department of Materials Science (University of Patras, 2014-today)
- Member of several committees in the Department of Materials Science (University of Patras): Coordination of Research Proposals, Public Relations and Promotion (Seminars coordinator until 2018), Infrastructure and Laboratory Operation (-today), Finance (2018-today, coordinator), Health & Safety (2019-today, coordinator)
- Member of Interdisciplinary Committee of Interdisciplinary Postgraduate Program on “Environmental Sciences”, University of Patras (2015-today)

## INVITED TALKS

- Nov. 2007** “**Copper-based catalysts for methanol processors**”, Institute of Catalysis, Bulgarian Academy of Sciences, Sofia Bulgaria, 26 November 2007.
- Sept. 2010** “**Development of an Internal Reforming Methanol Fuel Cell: Concept, Challenges and Opportunities**”, Keynote presentation, XIX International Conference on Chemical Reactors, September 5-9, 2010, Vienna, Austria.
- Nov. 2014** “**Catalytic and Technological Aspects of Reforming Methanol to Electricity Inside a Fuel Cell**”, Keynote presentation, 2014 AIChE Annual Meeting, November 16-21, 2014, Atlanta, USA.
- Apr. 2016** “**Technological aspects of internal reforming methanol fuel cells for portable applications**”, Invited, EMN Dubai Meeting, Energy Materials Nanotechnology, Dubai, United Arab Emirates, April 1-4, 2016.
- May 2018** “**Development of a Portable Internal Reforming Methanol High Temperature PEM Fuel Cell System**”, Invited, Hydrogen Innovation Festival, Tomar, Portugal, May 29<sup>th</sup>, 2018.
- Nov. 2021** “**Tuning the Catalytic Properties of Copper-promoted Nanocerium**”, Keynote presentation, 16<sup>th</sup> Panhellenic Catalysis Symposium, Chania, Greece, 2021.

## RESEARCH ACTIVITY

*(A) Synthesis and characterization of nanomaterials*

*(B) Heterogeneous nanocatalysts*

*(C) Alternative energy sources: Catalytic hydrogen technologies*

*(D) Environmental catalytic chemical processes*

*(E) Development of Internal Reforming Methanol Fuel Cell systems*

*(F) Development of nanostructured electrodes for Li-ion and Na-ion batteries*

- *Nanomaterials: Synthesis and characterization*

Preparation of nanostructured oxides (especially mixed oxides  $\text{CuCeO}_x$  and spinel oxides  $\text{CuMnO}_x$ ) and precious metal-based catalysts (i.e.  $\text{Au/Fe}_2\text{O}_3$ ,  $\text{Au/CeO}_2$ ,  $\text{Pt/CeO}_2$ ,  $\text{Pt/Al}_2\text{O}_3$ )

and ((Pt, Au, PtAu, CuO, CuCeO<sub>x</sub>)/CNTs/Graphene) and LiMn<sub>2</sub>O<sub>4</sub>-based nanostructured spinels via various chemical methods (impregnation, coprecipitation, sol-gel, and especially hydrothermal and combustion methods). Materials characterization by atomic adsorption spectroscopy (AAS), N<sub>2</sub> adsorption, X-ray powder diffraction (XRD), electron microscopy (TEM, SEM), X-ray photoelectron spectroscopy (XPS), thermogravimetric analysis (TGA), electrochemical impedance spectroscopy (EIS), polarization measurements, transient-isotopic methods (SSITKA) and temperature-programmed methods (TPR, TPD). (Published papers 1-61).

- ***Catalytic processes for the production and purification of hydrogen for fuel cell applications:*** a) Production of hydrogen via steam reforming of methanol, b) Water-gas shift reaction, c) Removal of CO from hydrogen-rich mixtures via preferential CO oxidation. (Published papers 1, 3, 4, 5, 7, 9, 11-15, 17-29, 32, 33, 34, 36, 37, 39, 40, 43, 44-46, 48, 49-53).
- ***Environmental catalysis for air pollution control (CO and VOCs abatement):*** Catalytic oxidation of CO and ethanol. (Published papers 1, 10, 16, 31, 32, 47, 53).
- ***Development of a single methanol-fuelled power unit (Internal Reforming Alcohol Fuel Cell) based on a methanol reformer and a high temperature PEM fuel cell.*** Incorporation of a methanol reforming catalyst into the anodic compartment (bi-functional anode) of a high-temperature, polymer electrolyte fuel cell (HT-PEMFC), so that methanol reforming takes place inside the fuel cell stack (internal reforming), (Published papers 28, 33, 34, 35, 37, 39, 40, 43, 49).
- ***Photoelectrocatalytic processes.*** Degradation of organic pollutants (published paper 47). Production of hydrogen (published papers 46 and 51)
- ***Nanostructured electrodes for Li-ion and Na-ion batteries.*** LiMn<sub>2</sub>O<sub>4</sub>-based nanostructured spinels (Published papers 41, 54-59, 61), graphene- and biochar-based electrodes.

## **PARTICIPATION/COORDINATION OF RESEARCH PROJECTS (1998-today)**

Participation (preparation, submission, execution, report, management) in several research projects financed either by the Greek Ministry of Development or EC. These include a number of Joint research and technological programmes between Greece and Slovenia (1998-2001, “Preferential oxidation of carbon monoxide”, “Characterization of electrocatalysts”, “Development of metal-doped molecular sieves”) Czech Republic (2001-2003, “Catalytic oxidation of VOCs”), Bulgaria (2005-2007, “Methanol reforming and water-gas shift activity of

gold and copper-based catalysts”) and Poland (2006-2008, “Catalytic steam reforming of ethanol”). In addition, the following research projects (lab budget > 1 million euros) were (are) funded:

by EC:

- EPAN E-25 entitled “**Development of a methanol fuelled fuel cell system**” (01-07-2004 to 31-10-2005)
- HY2SEPS entitled “**Hybrid hydrogen-carbon dioxide separation systems**” (01-02-2006 to 31-05-2008)
- APOLLON-B entitled “**Polymer electrocatalysts and non noble metal electrocatalysts for high temperature PEM fuel cells**” (15-09-2008 to 31-07-2009)
- IRAFC (senior researcher; total budget: 2.53 m€) entitled “**Development of an Internal Reforming Alcohol High Temperature PEM Fuel Cell Stack**” (01-01-2010 to 30-06-2013)
- IRMFC (scientific coordinator; total budget: 3.26 m€) entitled “**Development of a Portable Internal Reforming Methanol High Temperature PEM Fuel Cell System**” (01-05-2013 to 31-10-2016)

by GSRT:

- ISuMaRe4PV (senior researcher; Research-Creat-Innovate, Call A; total budget: 998,280€ (906,624€ funded by GSRT)) entitled “**Integrated PV Surveillance, Management and Revitalization System**” (10/2018 to 09/2021)
- METHCELL (scientific coordinator; bilateral programme Greece-China; total budget: 442,500 € (400k€ funded by GSRT)) entitled “**A reformed methanol fuel cell based on intermediate-temperature molten proton conductor electrolyte**” (10/2019 to 9/2022)
- BaNaNa (scientific coordinator; Research-Creat-Innovate, Call B; total budget: 998,280€ (906,624€ funded by GSRT)) entitled “**Development of Sodium-ion batteries based on naturally derived anode materials**” (7/2020 to 1/2023)

by HFRI:

- Scholarship for PhD studies (No2257; 1<sup>st</sup> Call of HFRI), budget: 18,900 € (funded by Hellenic Foundation for Research and Innovation) entitled “**Development of anodic and cathodic nanostructured materials for lithium batteries**” (8/2017 to 11/2018)

by University of Patras

- C. Caratheodory 2015: NANOKAT (scientific coordinator; total budget: 30000€ (funded by Research Committee of University of Patras)) “**Tuning the physicochemical**

**properties of nanostructured copper-cerium catalysts via a hydrothermal method”**  
(7/2016 to 9/2019)

## PUBLICATIONS/PRESENTATIONS

<b>A. Publications in peer-reviewed international journals:</b>	61
<b>Citations (Scopus, October 2020):</b>	3968 (Scopus)
	4789 (Google Scholar)
<b>h index (October 2020):</b>	28 (Scopus)
	28 (Google Scholar)
<b>B. Presentations-publications in international conferences:</b>	54
<b>C. Presentations-publications in national conferences:</b>	41
<b>D. Patents:</b>	2
<b>E. Books (book chapters):</b>	1 (1)
<b>F. Thesis:</b>	3

## A. PUBLICATIONS IN PEER-REVIEWED INTERNATIONAL JOURNALS

1. **G. Avgouropoulos**, T. Ioannides, H. Matralis, J. Batista, S. Hocevar, “CuO – CeO<sub>2</sub> mixed oxide catalysts for the selective oxidation of carbon monoxide in excess hydrogen” *Catal. Lett.* 73 (2001) 33-40.  
**Impact factor: 2.482, Times cited: 253**  
**Second most cited article among the research articles published in Catalysis Letters in 2001.**
2. A. Ristic, **G. Avgouropoulos**, T. Ioannides, V. Kaucic, “Investigation of catalytic activity of framework and extraframework cobalt and manganese in MeAPO-34 prepared from fluoride medium” *Stud. Surf. Sci. Catal.* 135 (2001) 314.  
**Impact factor: 0.307, Times cited: 1**
3. **G. Avgouropoulos**, T. Ioannides, C. Papadopoulou, J. Batista, S. Hocevar, H. Matralis, “A comparative study of Pt/ $\gamma$ -Al<sub>2</sub>O<sub>3</sub>, Au/ $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> and CuO–CeO<sub>2</sub> catalysts for the selective oxidation of carbon monoxide in excess hydrogen” *Catal. Today* 75 (2002) 157-167.

**Impact factor: 5.825, Times cited: 492**

**Most cited article among the research articles published in Catal. Today in 2002.**

**Recognised in the “Top-50 most cited articles” as published in Elsevier's Catalysis Journals 2001-2005 and 2002-2006 (as cited by Scopus).**

4. **G. Avgouropoulos**, T. Ioannides, “Selective CO oxidation over CuO-CeO<sub>2</sub> catalysts prepared via the urea-nitrate combustion method”  
*Appl. Catal. A: Gen.* 244 (2003) 155-167.

**Impact factor: 5.006, Times cited: 525**

**Most cited article among the research articles published in Appl. Catal. A in 2003.**

**Recognised in the “Top-50 most cited articles” as published in Elsevier's Catalysis Journals 2003-2007 (as cited by Scopus).**

5. J. Papavasiliou, **G. Avgouropoulos**, T. Ioannides, “Production of hydrogen via combined steam reforming of methanol over CuO-CeO<sub>2</sub> catalysts”  
*Catal. Commun.* 5 (2004) 231-235.

**Impact factor: 3.612, Times cited: 91**

**Featured on the ScienceDirect TOP25 Hottest Articles (2004) within Catal. Commun.**

**Fourth most cited article among the research articles published in Catal. Commun. in 2004.**

6. A. Machocki, T. Ioannides, B. Stasinska, W. Gac, **G. Avgouropoulos**, D. Delimaris, W. Grzegorzczak, S. Pasieczna, “Manganese-lanthanum oxides modified with silver for the catalytic combustion of methane”  
*J. Catal.* 227 (2004) 282-296.

**Impact factor: 7.918, Times cited: 285**

7. **G. Avgouropoulos**, T. Ioannides, H. Matralis, “Influence of the preparation method on the performance of CuO-CeO<sub>2</sub> catalysts for the selective oxidation of CO”  
*Appl. Catal. B: Environ.* 56 (2005) 87-93.

**Impact factor: 16.683, Times cited: 361**

**Third most cited article among the research articles published in Appl. Catal. B in 2005.**

8. **G. Avgouropoulos**, T. Ioannides, “CO tolerance of Pt and Rh catalysts: effect of CO in

the gas phase oxidation of H<sub>2</sub> over Pt and Rh supported catalysts”

*Appl. Catal. B: Environ.* 56 (2005) 77-86.

**Impact factor: 16.683, Times cited: 31**

9. J. Papavasiliou, **G. Avgouropoulos**, T. Ioannides, “Steam reforming of methanol over copper-manganese spinel oxide catalysts”

*Catal. Commun.* 6 (2005) 497-501.

**Impact factor: 3.612, Times cited: 89**

**Featured on the ScienceDirect TOP25 Hottest Articles (2005) within Catal. Commun.**

10. **G. Avgouropoulos**\*, E. Oikonomopoulos, D. Kanistras, T. Ioannides, “Complete oxidation of ethanol over alkali-promoted Pt/Al<sub>2</sub>O<sub>3</sub> catalysts”

*Appl. Catal. B: Environ.*, 65 (2006) 62-69.

**Impact factor: 16.683, Times cited: 94**

11. J. Papavasiliou, **G. Avgouropoulos**, T. Ioannides, “In-situ combustion synthesis of structured Cu-Ce-O and Cu-Mn-O catalysts for the production and purification of hydrogen”

*Appl. Catal. B: Environ.* 66 (2006) 168-174.

**Impact factor: 16.683, Times cited: 94**

**Featured on the ScienceDirect TOP25 Hottest Articles (2006) within Appl. Catal. B.**

12. **G. Avgouropoulos**, T. Ioannides, “Effect of synthesis parameters on catalytic properties of CuO-CeO<sub>2</sub>”

*Appl. Catal. B: Environ.* 67 (2006) 1-11.

**Impact factor: 16.683, Times cited: 223**

**Featured on the ScienceDirect TOP25 Hottest Articles (2006) within Appl. Catal. B.**

13. J. Papavasiliou, **G. Avgouropoulos**, T. Ioannides, “Effect of dopants on the performance of CuO-CeO<sub>2</sub> catalysts in methanol steam reforming”

*Appl. Catal. B: Environ.* 69 (2007) 226-234.

**Impact factor: 16.683, Times cited: 95**

14. **G. Avgouropoulos**\*, J. Papavasiliou, V. Idakiev, T. Tabakova, T. Ioannides, “A comparative study of ceria-supported gold and copper oxide catalysts for preferential CO oxidation reaction”

*Chem. Eng. J.* 124 (2006) 41-45.

**Impact factor: 10.652, Times cited: 93**

**Featured on the ScienceDirect TOP25 Hottest Articles (2006) within Chem. Eng. J.**

15. T. Tabakova, V. Idakiev, J. Papavasiliou, **G. Avgouropoulos**, T. Ioannides, “Effect of additives on the WGS activity of combustion synthesized CuO/CeO<sub>2</sub> catalysts”

*Catal. Commun.* 8 (2007) 101-106.

**Impact factor: 3.612, Times cited: 81**

16. M. Konsolakis, M. Vrontaki, **G. Avgouropoulos**, T. Ioannides, I.V. Yentekakis, “Novel doubly-promoted catalysts for the lean NO<sub>x</sub> reduction by H<sub>2</sub> + CO: Pd(K)/Al<sub>2</sub>O<sub>3</sub>-(TiO<sub>2</sub>)”

*Appl. Catal. B: Environ.* 68 (2006) 59-67.

**Impact factor: 16.683, Times cited: 19**

17. P. Panagiotopoulou, J. Papavasiliou, **G. Avgouropoulos**, T. Ioannides, D.I. Kondarides, “Water-gas shift activity of doped Pt/CeO<sub>2</sub> catalysts”

*Chem. Eng. J.* 134 (2007) 16-22.

**Impact factor: 10.652, Times cited: 125**

**Featured on the ScienceDirect TOP25 Hottest Articles (2007) within Chem. Eng. J.**

18. **G. Avgouropoulos**, T. Ioannides, “Adsorption and reaction of CO on CuO-CeO<sub>2</sub> catalysts prepared by the combustion method”

*Catal. Lett.* 116 (2007) 15-22.

**Impact factor: 2.482, Times cited: 33**

19. J. Papavasiliou, **G. Avgouropoulos**, T. Ioannides, “Combined steam reforming of methanol over Cu-Mn spinel oxide catalysts”

*J. Catal.* 251 (2007) 7-20.

**Impact factor: 7.918, Times cited: 148**

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