

Curriculum Vitae

Research and Scientific Activity

Dr George Avgouropoulos

Last updated: January 2017

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

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Office address (1): Department of Materials Science

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Foundation for Research and Technology-Hellas (FORTH)

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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-CeO₂ 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 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 in Elsevier's Catalysis journals 2002

	2006 (as cited by Scopus)
Jun. 2008	The paper No. 4 (G. Avgouropoulos et al. <i>Appl. Catal. A: Gen.</i> 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 ₂ and Pt/CeO ₂ nanostructured materials for fuel cell applications” presented by A. Paxinou (<i>post-graduate student under my supervision</i>) at the 30 th 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 (<i>Ph.D. student under my supervision</i>) 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 – today	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 – today

Assistant Professor in the field of: “Materials engineering in microphase-nanophase or/and devices – experimental direction”

Department of Materials Science, University of Patras, Greece

TEACHING EXPERIENCE

Undergraduate Programs

- **“Electronic Materials Production Processes”** (teaching assistant), core course of 3rd year, Chemical Engineering Department, University of Patras (1997-1998).
- **“Organic Chemistry Laboratory”**, (teaching assistant), core course of 2nd year, Chemical Engineering Department, University of Patras (1998-2000).
- **“Polymers Laboratory”** (teaching assistant), core course of 3rd year, Chemical Engineering Department, University of Patras (1998-2000).
- **“Physicochemical & Instrumental Analysis of Vegetative Products”** core course of 2nd 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 4th 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 4th year, Department of Materials Science, University of Patras (spring semesters 2008/2009, 2009/2010, 2010/2011, 2011/2012, 2012/2013).
- **“Materials Science Laboratory III”**, core course of 2nd year, Department of Materials Science, University of Patras (spring semesters 2008/2009, 2009/2010, 2010/2011, 2011/2012, 2012/2013, 2013/2014, 2014/2015, 2015/2016).
- **“Physical Chemistry Laboratory”**, core course of 3rd year, Department of Materials Science, University of Patras (winter semesters 2009/2010, 2010/2011, 2011/2012, 2012/2013, 2013/2014, 2014/2015, 2015/2016, 2016/2017).
- **“Materials Science Laboratory I”**, core course of 1st year, Department of Materials Science, University of Patras (spring semesters 2010/2011, 2012/2013).
- **“Materials and Environment”**, optional course of 4th year, Department of Materials Science, University of Patras (spring semesters 2010/2011, 2011/2012, 2013/2014,

2014/2015, 2015/2016).

- **“Chemistry III”**, core course of 3rd year, Department of Materials Science, University of Patras (winter semesters 2010/2011, 2011/2012, 2012/2013).
- **“Physics Laboratory II”**, core course of 1st year, Department of Materials Science, University of Patras (spring semester 2011/2012).
- **“Chemistry Laboratory I”**, core course of 1st year, Department of Materials Science, University of Patras (winter semesters 2012/2013, 2013/2014, 2014/2015, 2015/2016).
- **“Chemistry I”**, core course of 1st year, Department of Materials Science, University of Patras (winter semester 2016/2017).
- **“Materials for Renewable Energy”**, optional course of 4th year, Department of Materials Science, University of Patras (spring semesters 2013/2014, 2014/2015, 2015/2016).
- **“Physical Chemistry”**, core course of 2nd year, Department of Materials Science, University of Patras (winter semesters 2014/2015, 2015/2016, 2016/2017)
- Supervisor of several research diploma thesis (>15)

Postgraduate Programs

- **“Environmental Applications & Impacts of Nanotechnology”**, optional course of Interdisciplinary Postgraduate Program on “Environmental Sciences”, University of Patras (winter semester 2015/2016)
- **“Design, Synthesis and Processing of Advanced Materials”**, core course of 1st year, Postgraduate Program of Materials Science Department, University of Patras (spring semester 2014/2015)
- 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/CeO₂ and Pt/TiO₂ nanostructured catalysts for the production of hydrogen from methanol”, Department of Materials Science, University of Patras, 2015.

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 23 international journals (ISI-Journal Citation Reports 2015):
... 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, Electrochimica Acta, Materials Science in Semiconductor Processing, Applied Surface Science, Catalysis Today, Journal of Power Sources, Journal of Molecular Catalysis A: Chemical, Renewable Energy
... of Springer ...
Catalysis Letters,
... of ACS ...
Journal of the American Chemical Society, ACS Applied Materials & Interfaces, The Journal of Physical Chemistry and Industrial & Engineering Chemistry Research
- Romanian Research Council reviewer
- Hong-Kong Research Council reviewer
- Greek GSRT reviewer
- Editorial Board Member, *The Open Environmental Engineering Journal* (Bentham Science), 2008-
- Editorial Board Member, FRONTIERS, 2008-
- **Editor of Book: “Environmental catalysis over gold-based materials”, RSC, August 2013.**
- Technical Chamber of Greece
- Association of Greek Chemical Engineers
- Hellenic Catalysis Society
- Session Chair, 4th EFCATS School on Catalysis, St. Petersburg, Russia, 2006.
- Session Chair, 9th 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 1st, 2010.
- Session Chair, XIX International Conference on Chemical Reactors, September 5-9, 2010, Vienna, Austria.

- Session Chair, 12th Panhellenic Catalysis Symposium, Chania, Greece, 2012.
- Member of the Scientific Committee, 12^o Panhellenic Catalysis Symposium, Chania, Greece, 2012.
- Member of the Scientific Committee, 13th Panhellenic Catalysis Symposium, Palaio Agios Athanasios Pellas, Greece, 2014.
- Session Chair, 10th 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, 1^{4th} Panhellenic Catalysis Symposium, Patras, Greece, 2016.
- Member of the Organizing Committee, 14th Panhellenic Catalysis Symposium, Patras, Greece, 2016.
- Session Chair, EMN Dubai Meeting, Energy Materials Nanotechnology, Dubai, United Arab Emirates, 2016.

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, Health & Safety, Public Relations and Promotion (Seminars coordinator), Infrastructure and Laboratory Operation (2015-today)
- Member of Interdisciplinary Committee of Interdisciplinary Postgraduate Program on “Environmental Sciences”, University of Patras (2015-today)

INVITED TALKS

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|-------------------|--|
| 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.

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 batteries

- ***Nanomaterials: Synthesis and characterization***

Preparation of nanostructured oxides (especially mixed oxides CuCeO_x and spinel oxides CuMnO_x) and precious metal-based catalysts (i.e. $\text{Au/Fe}_2\text{O}_3$, Au/CeO_2 , Pt/CeO_2 , $\text{Pt/Al}_2\text{O}_3$ and $(\text{Pt,Au})/\text{CNTs}$) and LiMn_2O_4 -based nanostructured spinels via various chemical methods (impregnation, coprecipitation, sol-gel, hydothermal and especially combustion methods). Materials characterization by atomic adsorption spectroscopy (AAS), N_2 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 1-41).

- ***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).

- ***Environmental catalysis for air pollution control (CO and VOCs abatement):*** Catalytic oxidation of CO and ethanol. (Published papers 1, 10, 16, 31, 32).

- ***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).

PARTICIPATION IN 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 (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)

PUBLICATIONS/PRESENTATIONS

A. Publications in peer-reviewed international journals:	41
Citations (Scopus, January 2017):	2832 (no self-citations: 2610)
h index (Scopus, January 2017):	22
B. Presentations-publications in international conferences:	46
C. Presentations-publications in national conferences:	37
D. Patents:	2
E. Books (book chapters):	1
F. Thesis:	3

A. PUBLICATIONS IN PEER-REVIEWED INTERNATIONAL JOURNALS

1. **G. Avgouropoulos**, T. Ioannides, H. Matralis, J. Batista, S. Hocevar, "CuO – CeO₂ mixed oxide catalysts for the selective oxidation of carbon monoxide in excess hydrogen" *Catal. Lett.* 73 (2001) 33-40.
Impact factor: 2.294, Times cited: 217
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}.
3. **G. Avgouropoulos**, T. Ioannides, C. Papadopoulou, J. Batista, S. Hocevar, H. Matralis, "A comparative study of Pt/ γ -Al₂O₃, Au/ α -Fe₂O₃ and CuO–CeO₂ catalysts for the selective oxidation of carbon monoxide in excess hydrogen" *Catal. Today* 75 (2002) 157-167.
Impact factor: 4.312, Times cited: 410
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-CeO₂ catalysts prepared via the urea-nitrate combustion method”
Appl. Catal. A: Gen. 244 (2003) 155-167.
Impact factor: 4.012, Times cited: 397
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-CeO₂ catalysts”
Catal. Commun. 5 (2004) 231-235.
Impact factor: 3.389, Times cited: 77
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: 7.354, Times cited: 169
7. **G. Avgouropoulos**, T. Ioannides, H. Matralis, “Influence of the preparation method on the performance of CuO-CeO₂ catalysts for the selective oxidation of CO”
Appl. Catal. B: Environ. 56 (2005) 87-93.
Impact factor: 8.328, Times cited: 255
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 H₂ over Pt and Rh supported catalysts”
Appl. Catal. B: Environ. 56 (2005) 77-86.
Impact factor: 8.328, Times cited: 28
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: 3.389, Times cited: 72

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/Al₂O₃ catalysts”

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

Impact factor: 8.328, Times cited: 69

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: 8.328, Times cited: 73

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-CeO₂”

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

Impact factor: 8.328, Times cited: 157

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-CeO₂ catalysts in methanol steam reforming”

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

Impact factor: 8.328, Times cited: 75

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: 5.310, Times cited: 74

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/CeO₂ catalysts”
Catal. Commun. 8 (2007) 101-106.
Impact factor: 3.389, Times cited: 72
16. M. Konsolakis, M. Vrontaki, **G. Avgouropoulos**, T. Ioannides, I.V. Yentekakis, “Novel doubly-promoted catalysts for the lean NO_x reduction by H₂ + CO: Pd(K)/Al₂O₃-(TiO₂)”
Appl. Catal. B: Environ. 68 (2006) 59-67.
Impact factor: 8.328, Times cited: 15
17. P. Panagiotopoulou, J. Papavasiliou, **G. Avgouropoulos**, T. Ioannides, D.I. Kondarides, “Water-gas shift activity of doped Pt/CeO₂ catalysts”
Chem. Eng. J. 134 (2007) 16-22.
Impact factor: 5.310, Times cited: 102
Featured on the ScienceDirect TOP25 Hottest Articles (2007) within Chem. Eng. J.
18. **G. Avgouropoulos**, T. Ioannides, “Adsorption and reaction of CO on CuO-CeO₂ catalysts prepared by the combustion method”
Catal. Lett. 116 (2007) 15-22.
Impact factor: 2.307, Times cited: 22
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: 7.354, Times cited: 86
20. **G. Avgouropoulos***, J. Papavasiliou, T. Ioannides, “PROX reaction over CuO-CeO₂ catalyst with reformat gas containing methanol”
Catal. Commun. 9 (2008) 1656-1660.
Impact factor: 3.389, Times cited: 16
21. **G. Avgouropoulos***, M. Manzoli, F. Boccuzzi, T. Tabakova, J. Papavasiliou, T. Ioannides, V. Idakiev, “Catalytic performance and characterization of Au/doped ceria catalysts for the preferential CO oxidation reaction”
J. Catal. 256 (2008) 237-247.

Impact factor: 7.354, Times cited: 106

Featured on the ScienceDirect TOP25 Hottest Articles (2008) within J. Catal.

22. T. Tabakova, V. Idakiev, J. Papavasiliou, G. Avgouropoulos, T. Ioannides, “Impact of the preparation method on the water-gas shift activity of CuO/doped-ceria catalysts”
Bulg. Chem. Commun. 40 (2008) 42-47.

Impact factor: 0.349, Times cited: 1

23. M. Manzoli, G. Avgouropoulos, T. Tabakova, J. Papavasiliou, T. Ioannides, F. Boccuzzi, “Preferential CO oxidation reaction in H₂-rich gas mixtures over Au/doped ceria catalysts”
Catal. Today 138 (2008) 239-243.

Impact factor: 4.312, Times cited: 41

Featured on the ScienceDirect TOP25 Hottest Articles (2009) within Catal. Today.

24. G. Avgouropoulos, T. Ioannides, “TPD and TPSR study of CO interaction with CuO-CeO₂ catalysts”
J. Mol. Catal. A 296 (2008) 47-53.

Impact factor: 3.958, Times cited: 19

25. J. Papavasiliou, G. Avgouropoulos, T. Ioannides, “Steady-state isotopic transient kinetic analysis of steam reforming of methanol over Cu-based catalysts”
Appl. Catal. B: Environ. 88 (2009) 490-496.

Impact factor: 8.328, Times cited: 26

26. G. Avgouropoulos*, “Isotopic transient study of methanol decomposition over noble metal/ceria”
Catal. Commun. 10 (2009) 682-686.

Impact factor: 3.389, Times cited: 2

27. G. Avgouropoulos*, J. Papavasiliou, T. Ioannides, “Hydrogen production from methanol over combustion-synthesized noble metal/ceria catalysts”
Chem. Eng. J. 154 (2009) 274-280.

Impact factor: 5.310, Times cited: 21

28. G. Avgouropoulos*, J. Papavasiliou, M. Daletou, T. Ioannides, J. Kallitsis, S. Neophytides, “Reforming methanol to electricity in a high temperature PEM fuel cell”

Appl. Catal. B: Environ. 90 (2009) 628-632.

Impact factor: 8.328, Times cited: 31

29. T. Tabakova, G. Avgouropoulos, J. Papavasiliou, M. Manzoli, F. Boccuzzi, K. Tenchev, F. Vindigni, T. Ioannides, “CO-free hydrogen production over Au/CeO₂–Fe₂O₃ catalysts: Part 1. Impact of the support composition on the performance for the preferential CO oxidation reaction”

Appl. Catal. B: Environ. 101 (2011) 256-265.

Impact factor: 8.328, Times cited: 58

30. H. Nazar, D.G. Fatouros, S.M. van der Merwe, N. Bouropoulos, G. Avgouropoulos, J. Tsibouklis, M. Roldo, “Thermosensitive hydrogels for nasal drug delivery: The formulation and characterisation of systems based on N-trimethyl chitosan chloride”

Eur. J. Pharm. Biopharm. 77 (2011) 225-232.

Impact factor: 3.975, Times cited: 45

31. T. Skaltsas, G. Avgouropoulos, D. Tasis, “Impact of the fabrication method on the physicochemical properties of carbon nanotube-based aerogels”

Micropor. Mesopor. Mater. 143 (2011) 451-457.

Impact factor: 3.349, Times cited: 19

32. G. Avgouropoulos, T. Ioannides, “Kinetics of CO and H₂ oxidation over CuO–CeO₂ and CuO catalysts”

Chem. Eng. J. 176-177 (2011) 14-21.

Impact factor: 5.310, Times cited: 7

33. G. Avgouropoulos*, T. Ioannides, J.K. Kallitsis, S. Neophytides, “Development of an internal reforming alcohol fuel cell: Concept, challenges and opportunities”

Chem. Eng. J. 176-177 (2011) 95-101.

Impact factor: 5.310, Times cited: 15

34. J. Papavasiliou, G. Avgouropoulos*, T. Ioannides, “CuMnOx catalysts for internal reforming methanol fuel cells: Application aspects”

Int. J. Hydrogen Energy 37 (2012) 16739-16747.

Impact factor: 3.205, Times cited: 10

35. **G. Avgouropoulos***, S. Neophytides, “Performance of internal reforming methanol fuel cell under various methanol/water concentrations”
J. Appl. Electrochem. 42 (2012) 719-726.
Impact factor: 2.223, Times cited: 8
36. T. Tabakova, V. Idakiev, **G. Avgouropoulos**, J. Papavasiliou, M. Manzoli, F. Boccuzzi, T. Ioannides, “Highly active copper catalyst for low-temperature water-gas shift reaction prepared via a Cu-Mn spinel oxide precursor”
Appl. Catal. A: Gen. 451 (2013) 184-191.
Impact factor: 4.012, Times cited: 20
37. **G. Avgouropoulos***, A. Paxinou, S. Neophytides, “In situ hydrogen utilization in an internal reforming methanol fuel cell”
Int. J. Hydrogen Energy 39 (2014) 18103-18108.
Impact factor: 3.205, Times cited: 10
38. P. Stathi, Y. Deligiannakis, **G. Avgouropoulos**, M. Louloudi, “Efficient H₂ Production from Formic Acid by a Supported Iron Catalyst on Silica”
Appl. Catal. A: Gen. 498 (2015) 176-184.
Impact factor: 4.012, Times cited: 4
39. **G. Avgouropoulos***, J. Papavasiliou, T. Ioannides, S. Neophytides “Insights on the effective incorporation of a foam-based methanol reformer in a high temperature polymer electrolyte membrane fuel cell”
J. Power Sources 296 (2015) 335-343.
Impact factor: 6.333, Times cited: 1
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