

Othon ADAMOPOULOS, Dr

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Personal information

Nationality: Greek

Place & Date of birth: Athens, 08/1975

Gender: Male

Military service (mandatory): Fulfilled (09/2004-09/2005); Sergeant.

Education

10/2012 - 07/2016 **Hellenic Open University** • Patra-Greece

(expected) *Master in Business Administration (part-time)*

05/2006 - 05/2012 **University of Crete** • Department of Chemistry • Heraklion-Greece

Foundation for Research & Technology – Hellas • Institute of Electronic Structure & Laser • Heraklion-Greece

Ph.D thesis: *'Mixed valence microporous transition metal oxides: Synthesis – Structure – Magnetoelectronic Properties'*

01/1999 - 06/2003 **The Royal Institute of Technology** • Department of Materials Science & Engineering • Stockholm-Sweden

Technical Licentiate thesis: *'Study on nanosized $Ce_{1-x}Me_xO_{2-\delta}$ for environmental catalysis'*

09/1993 - 10/1998 **National Technical University of Athens** • Department of Mining - Metallurgical Engineering (*five-year course*) • Athens-Greece

Engineering Diploma thesis: *'Study on dental porcelains for metal-ceramic restorative systems'*.

Languages

- **Greek:** Mother tongue

2000 **Swedish:** Svenska för invandrare Betyg, Stockholms Stad • Sverige

1998 **German:** Zertifikat Deutsch als Fremdsprache, Göthe Institut; Mittelstufe

1997 **English:** Certificate of Proficiency in English, Cambridge University • UK.

Professional experience

09/2014 - 06/2015 **Piraeus University of Applied Sciences** (<http://www.teipir.gr/index.php/en/>), Athens; Lecturer of subjects: Chemical Technology - Mechanical Engineering Dept, Environmental Chemistry - Civil Engineering Dept, Electrochemistry - Electrical Engineering Dept.

02/2013 - 06/2015, 10/ 2011 - 06/2012 **Public Vocational Training Institutes**, Attica Prefecture, Instructor, Design - Coordination - Lecture of subjects related to Chemistry, Chemical Technology, Materials Technology, Mechanical Engineering (theory / laboratory, >1500 h).

08-12/2012 **Region of Sterea Hellas**, Public sector of General Management Development, Environment and Infrastructure, Technical works Section (<http://www.pste.gov.gr/index.php>); Lamia City
Mining Engineer – Co-supervision, Project agreement: *'Earth restorations of regional road on Evia island'*.

12/2009 - 04/2010 **V. Tsokani S.A** (<http://www.tsokanisgroup.com/en/default.asp>) • Shift Production Engineer – Supervision, Coal mine • Ptolemaida-Greece.
Project work: *'Transfer of $7.0 \cdot 10^6 \text{ m}^3$ hard and semi-hard earth-formations from the point of the new conveyor-belts interchange at the South area Mine'*.

04/2006 - 05/2012 **Foundation for Research & Technology – Hellas** • Institute of Electronic

	Structure & Laser (http://www.iesl.forth.gr/) • Heraklion-Greece PhD thesis research project: 'Study on microporous, mixed valence, transition metal oxides'
04/2006 - 05/2012	University of Crete • Department of Chemistry • Heraklion-Greece Teaching assistantship at the courses: Spring term: '09 ▪ 'Analytical chemistry I – 2 nd -year students' (XHM-301) ▪ 'Analytical chemistry I – 4 th -year students' (XHM-301).
12/2003 - 07/2004 09/2005 - 03/2006	National & Kapodistrian University of Athens • School of Dentistry • Laboratory of Biomaterials • Athens-Greece Research Associate; Proposals preparation of EU research projects.
01/1999-11/2003	The Royal Institute of Technology • Department of Materials Science & Engineering • Stockholm-Sweden Technical Licentiate thesis research project: 'Study on nanosized $Ce_{1-x}Me_xO_{2-\delta}$ for environmental catalysis', in collaboration with the R&D 'Umicore Group - Germany' ('Degussa AG'; http://www.umicore.com/en/). Teaching assistantship at the courses:
Fall terms: '99-'00-'01 Spring terms: '00-'01 Spring term: '01	▪ 'General chemistry for Materials Science students' (4H1705) ▪ 'Materials chemistry - Nanostructured materials' (4H5702) ▪ 'Processing of ceramic materials' (4H1504).
03/1998 - 10/1998	Ceramics & Refractories Company (CERECO S.A; http://www.cereco.gr/en/html/cereco.html) • Halkida-Greece Engineering Diploma thesis research project.
07/1998 - 08/1998	Bundesanstalt für Materialforschung und -prüfung (http://www.bam.de/de/index.htm) • Berlin-Germany I.A.E.S.T.E trainee (<i>International Association for the Exchange of Students for Technical Experience</i>); 'Metal welding' - Research laboratory.
09/1997 - 10/1997	Hellenic Air Force – Technology Research Centre (http://www.haf.gr/en/) • Athens-Greece Practical training: 'Determination of Pb concentration of gasoline' - Chemical laboratory.
07/1997	Egyptian Iron & Steel Company (http://www.egironsteel.com/eng/index.php) • Cairo-Egypt I.A.E.S.T.E trainee; 'Cold & hot strip milling' - Iron & Steel Section.
07/1996	Hellenic Copper Mines Ltd (http://hcm.com.cy/site/) • Skouriotissa-Cyprus I.A.E.S.T.E trainee; 'Solvent extraction, Electrowinning & Quality control of Cu hydrometallurgical plant' - Solvent Extraction Section.

Affiliations

Since: 01/2001	Panhellenic Society of Mining - Metallurgical Engineers
11/1999	Technical Chamber of Greece (<i>Professional registered Engineer</i>).

Others

Reviewer of scientific journals (e.g., 'Journal of the European Ceramic Society', 'Journal of the American Ceramic Society', 'Materials', 'International Journal of Oral Science', 'NED University Journal of Research').

Publications list

University dissertations: 3

Publications in refereed journal: 8 + 1 (e.g., Nature Communications)

Patent applications: 7

Conference contributions: 26 (prizes, awards, invited oral presentations)

Publications in Public Media: >10.

Publications list

DISSERTATIONS

- D.3) University of Crete • Department of Chemistry • Heraklion 2012, Ph.D. thesis: *'Mixed-valence microporous transition metal oxides: Synthesis – Structure – Magneto-electronic Properties'* (UoC Institutional Repository Identifier: 000379382)
- D.2) The Royal Institute of Technology • Department of Materials Science & Engineering • Stockholm 2003, Technical Licentiate thesis: *'A study on nanosized cerium oxides systems for environmental catalysis'* (ISBN 91-7283-552-4)
- D.1) National Technical University of Athens • Department of Mining–Metallurgical Engineering • Athens 1998, Diploma thesis: *'Study on dental porcelains for metal-ceramic restorative systems'* (NTUA Library SBN 20569 -in Greek)

PUBLICATIONS IN REFEREED JOURNALS

- J.9) A. Zorko, J. Kokalj, M. Komelj, **O. Adamopoulos**, H. Luetkens, D. Arčon, A. Lappas, *'Magnetic inhomogeneity on a triangular lattice: the magnetic-exchange versus the elastic energy and the role of disorder'*, Scientific Reports 5, 9272; doi:10.1038/srep09272 (2015)
- J.8) A. Zorko, **O. Adamopoulos**, M. Komelj, D. Arčon, A. Lappas, *'Frustration-induced nanometre-scale inhomogeneity in a triangular antiferromagnet'*, Nature Communications, 5:3222 doi: 10.1038/ncomms4222 (2014)
- J.7) C. Vecchini, M. Poienar, F. Damay, **O. Adamopoulos**, A. Daoud-Aladine, A. Lappas, J. M. Perez-Mato, L. C. Chapon, C. Martin, *'Magnetoelastic coupling in the frustrated antiferromagnetic triangular lattice CuMnO_2 '*, Physical Review B 82; 094404.1-094404.5 (2010)
- J.6) C. Vecchini, **O. Adamopoulos**, L.C. Chapon, A. Lappas, H. Kageyama, Y. Ueda, A. Zorko, *'Structural distortions in the spin-gap regime of the quantum antiferromagnet $\text{SrCu}_2(\text{BO}_3)_2$ '*, Journal of Solid State Chemistry, 182(12); 3275-3281 (2009)
- J.5) C. Stock, L.C. Chapon, **O. Adamopoulos**, A. Lappas, M. Giot, J.W. Taylor, M.A. Green, C. Brown, P.G. Radaelli, *'One-dimensional magnetic fluctuations in the spin-2 triangular lattice $\alpha\text{-NaMnO}_2$ '*, Physical Review Letters 103; 077202.1-077202.4 (2009)
- J.4) **O. Adamopoulos**, E. Björkman, Yu Zhang, M. Muhammed, T. Bog, L. Mussmann, E. Lox, *'A nanophase oxygen storage material: Alumina-coated metal-based ceria'*, Journal of the European Ceramic Society 29(4); 677-689 (2009)
- J.3) **O. Adamopoulos**, Tr. Papadopoulos, *'Nanostructured bioceramics for maxillofacial applications'*, Journal of Materials Science: Materials in Medicine 18(8); 1587-1597 (2007)
- J.2) A. Tsetsekou, Tr. Papadopoulos, **O. Adamopoulos**, *'Microstructure effect on the properties of a commercial low-fusing dental porcelain'*, Journal of Materials Science: Materials in Medicine 13(4); 407-416 (2002)
- J.1) **O. Adamopoulos**, Yu Zhang, M. Croft, I. Zakharchenko, T. Tsakalagos, M. Muhammed, *'The characterisation and reactivity of nanostructured cerium-copper-oxide composites for environmental catalysis'*, Materials Research Society, Symposium Proceedings, *'Synthesis, Functional Properties and Applications of Nanostructures'*, Vol. 676; Y8.11.1-Y8.11.6 (2001)
- A. Zorko, **O. Adamopoulos**, M. Komelj, D. Arčon, A. Lappas, *'On the inhomogeneous ground state of a triangular antiferromagnet'*, The European Synchrotron: Scientific highlights - Structure of Materials, 118-119; ESRF Highlights 2014

PATENT APPLICATIONS

- P.7) M. Muhammed, **O. Adamopoulos**, T. Bog, L. Mussmann, D. Lindner, M. Votsmeier, M. Feger, E. Lox, T. Kreuzer, *'An oxygen storage material, comprising cerium oxide and at least one other oxide of a metal, process for its preparation and its application in a catalyst'*, European Patent 1464622A1, 1-21
- P.6) M. Muhammed, **O. Adamopoulos**, T. Bog, L. Mussmann, D. Lindner, M. Votsmeier, M. Feger, E. Lox, T. Kreuzer, *'Oxygen occluding material, manufacturing method of the oxygen occluding material and catalyst for clarifying exhaust gas of internal combustion engine'*, Japanese Patent

2004/337840.

- P.5) M. Muhammed, **O. Adamopoulos**, T. Bog, L. Mussmann, D. Lindner, M. Votsmeier, M. Feger, E. Lox, T. Kreuzer, 'Oxygen storage material, process for its preparation and its application in a catalyst', US 2007/7202194, 1-15
- P.4) M. Muhammed, **O. Adamopoulos**, T. Bog, L. Mussmann, D. Lindner, M. Votsmeier, M. Feger, E. Lox, T. Kreuzer, 'Oxygen storage material, process for its preparation and its application in a catalyst', US 2006/0052243, 1-15
- P.3) T. Bog, L. Mussmann, D. Lindner, M. Votsmeier, M. Feger, E. Lox, T. Kreuzer, M. Muhammed, **O. Adamopoulos**, 'Oxygen storage material, process for its preparation and its application in a catalyst', US 2004/0186016, 1-15
- P.2) M. Muhammed, **O. Adamopoulos**, T. Bog, L. Mussmann, D. Lindner, M. Votsmeier, M. Feger, E. Lox, T. Kreuzer, 'Oxygen storage material, process for its preparation and its application in a catalyst', US 2009/7485599, 1-14
- P.1) T. Bog, L. Mussmann, D. Lindner, M. Votsmeier, M. Feger, E. Lox, T. Kreuzer, M. Muhammed, **O. Adamopoulos**, 'Oxygen storage material, process for its preparation and its application in a catalyst', US 2007/0191220, 1-15

CONFERENCE CONTRIBUTIONS

- C.26) A. Lappas, A. Zorko, **O. Adamopoulos**, M. Komelj, D. Arcon, E. Aza, A.M. Abakumov, A.A. Tsirlin, I. Bakaimi, G. Van Tendeloo, 'Spin-driven Ferroelectricity in Two-dimensional Manganites'; 'SuperStripes 2014' Erice-Sicily/Italy, 25-31 July 2014 (invited oral presentation)
- C.25) I. Bakaimi, **O. Adamopoulos**, A. Abakumov, M.A. Green, A. Lappas, 'Magnetolectric Coupling in the 2D Antiferromagnet: β - NaMnO_2 '; 'CONFERENCE for YOUNG SCIENTISTS in CERAMICS / The Tenth Students' Meeting, SM-2013 – The Third ESR Workshop, COST MP0904' Novi Sad/Serbia, 6-9 November, 2013 (oral presentation)
- C.24) A. Zorko, M. Komelj, **O. Adamopoulos**, D. Arcon, A. Lappas, 'Magnetostructural phase separation induced by geometrical frustration'; '7th Joint European Magnetic Symposia' Rhodes/Greece, 25-30 August 2013 (oral presentation)
- C.23) A. Zorko, **O. Adamopoulos**, M. Komelj, D. Arcon, A. Lappas, 'Frustration-Induced Magnetostructural Inhomogeneity in the Triangular Antiferromagnet α - NaMnO_2 '; 'SuperStripes 2013 - Quantum in Complex Matter: Superconductivity, Magnetism and Ferroelectricity' Ischia/Italy, 27 May - 1 June 2013 (oral presentation)
- C.22) I. Bakaimi, **O. Adamopoulos**, C. Stock, M.A. Green, A. Lappas, 'Frustrated manganese oxide systems: The diversity of crystal structures towards novel magnetic behaviors'; '6th International Conference of the Hellenic Crystallographic Association' Athens/Greece, 28-29 September 2012 (oral presentation)
- C.21) A. Lappas, A. Zorko, **O. Adamopoulos**, D. Arcon, C. Stock, M. Green, 'Frustration and Inhomogeneous Magnetism in the Spin-2 Anisotropic Triangular Lattice System α - NaMnO '; '6th Joint European Magnetic Symposia' Parma/Italy, 9-14 September 2012 (poster presentation; grant: 600 €)
- C.20) I. Bakaimi, M. Giot, C. Stock, L.C. Chapon, **O. Adamopoulos**, J. Taylor, P.G. Radaelli, C.M. Brown, M.A. Green, A. Lappas, 'Order against frustration in the spin-2 anisotropic triangular lattice system α - NaMnO_2 '; 'American conference on neutron scattering 2012' Washington DC/USA, June 24-28 2012 (poster presentation)
- C.19) M. Giot, C. Stock, L.C. Chapon, J. Androulakis, **O. Adamopoulos**, J. Taylor, P.G. Radaelli, C.M. Brown, M. Green, A. Lappas, 'Magnetic Order and Spin Excitations in the Confined-2 Triangular Lattice α - NaMnO_2 '; '5th European Conference on Neutron Scattering' Prague/Czech Republic, 17-22 July 2011 (oral presentation)
- C.18) I. Bakaimi, **O. Adamopoulos**, M.A. Green, C. Stock, A. Lappas, 'Frustration and induced magnetodielectric coupling in NaMnO_2 polymorphs'; 'XXVI Panhellenic Conference on Solid

State Physics and Materials Science' Ioannina/Greece, 26-29 September 2010 (oral presentation; *award*)

- C.17) C. Vecchini, M. Poienar, F. Damay, **O. Adamopoulos**, L. C. Chapon, A. Lappas, C. Martin, '*Magnetoelastic coupling in the frustrated antiferromagnetic triangular lattice CuMnO_2* '; 'Orbital Workshop 2009' Berlin/Germany, 7-8 October 2009 (poster presentation)
- C.16) A. Lappas, C. Stock, **O. Adamopoulos**, L.C. Chapon, M. Giot, J.W. Taylor, M.A. Green, C.M. Brown, P.G. Radaelli, '*Order against frustration in a spin-2 triangular lattice system $\alpha\text{-NaMnO}_2$* '; 'XXV Panhellenic Conference on Solid State Physics and Materials Science' Thessaloniki/Greece, 20-23 September 2009 (poster presentation)
- C.15) A. Lappas, C. Stock, L.C. Chapon, **O. Adamopoulos**, M. Giot, J.W. Taylor, M.A. Green, C.M. Brown, P.G. Radaelli, '*Order against frustration in the spin-2 triangular lattice system, NaMnO_2* '; 'Theoretical and Experimental Magnetism Meeting' Oxfordshire/UK, 2-3 July, 2009 (poster presentation)
- C.14) **O. Adamopoulos**, A. Lappas, '*Study of the NaMnO_2 triangular lattice system at high temperature*'; 'XXIV Panhellenic Conference on Solid State Physics and Materials Science' Heraklion, Crete/Greece, 21-24 September 2008 (poster presentation)
- C.13) A. Lappas, M. Giot, **O. Adamopoulos**, L.C. Chapon, J. Androulakis, M.A. Green, P.G. Radaelli, '*Order against frustration in a manganese delafossite triangular lattice system*'; 'Gordon Research Conference - Solid State Chemistry' New London-New Hampshire/USA, July 27 - August 1, 2008 (poster presentation)
- C.12) C. Vecchini, L. Chapon, H. Kageyama, **O. Adamopoulos**, A. Lappas, '*Structural distortions in the spin-gap regime of the quantum antiferromagnet $\text{SrCu}_2(\text{BO}_3)_2$* '; '2008 American Physical Society March Meeting' New Orleans-Louisiana/USA, 10-14 March 2008 (poster presentation)
- C.11) **O. Adamopoulos**, A. Lappas, J. Androulakis, H. Kageyama, R. Ibberson, '*Lattice distortions in the low-temperature phase of the frustrated, two-dimensional, spin gap system $\text{SrCu}_2(\text{BO}_3)_2$* '; 'Hellenic Crystallographic Association - 3rd Conference' Patra/Greece, 22-24 September 2006 (oral presentation; *prize*)
- C.10) **O. Adamopoulos**, '*Nanostructured bioceramics for maxillofacial applications*'; '1st Council of the Hellenic Society for Biomaterials' Athens/Greece, 12 December 2005 (oral presentation -in Greek)
- C.9) **O. Adamopoulos**, E. Björkman, Yu Zhang, M. Muhammed, A. Wolf, T. Bog, L. Mussmann, E. Lox, '*Characterisation and reactivity of nanosized Al_2O_3 -coated $\text{Ce}_x\text{Me}_{1-x}\text{O}_{2-\delta}$ for environmental catalysis*'; 'XXXVI. Jahrestreffen Deutscher Katalytiker' Weimer/Germany, 19-21 March 2003 (poster presentation)
- C.8) A. Tsetsekou, T. Papadopoulos, **O. Adamopoulos**, '*Comparative study of the mechanical and thermal properties of four dental porcelains*'; '3rd Panhellenic Conference of the Hellenic Ceramic Society' Athens/Greece, 12-13 December 2002 (oral presentation -in Greek)
- C.7) **O. Adamopoulos**, E. Björkman, Yu Zhang, M. Muhammed, '*Characterisation and reactivity of nanostructured ceria doped with zirconium and manganese*'; '6th International Conference on Nanostructured Materials' Orlando-Florida/United States of America, 16-21 June 2002 (poster presentation)
- C.6) **O. Adamopoulos**, E. Björkman, Yu Zhang, M. Muhammed, M. Croft, I. Zakharchenko, T. Tsakalakos, '*The role of copper in nanostructured ceria*'; '6th International Conference on Nanostructured Materials' Orlando-Florida/United States of America, 16-21 June 2002 (poster presentation)
- C.5) **O. Adamopoulos**, Yu Zhang, M. Muhammed, '*Synthesis of nanostructured $\text{Ce}_x\text{Me}_{1-x}\text{O}_{2-\delta}$ for environmental catalysis*'; 'Graduate Students Conference 2001' Department of Materials Science & Engineering, The Royal Institute of Technology, Djurönäset/Sweden, 8-9 May 2001 (oral presentation)

- C.4) **O. Adamopoulos**, Yu Zhang, M. Croft, I. Zakharchenko, T. Tsakalagos, M. Muhammed, *'The characterisation and reactivity of nanostructured Ce-Cu-O composites for environmental catalysis'*; 'Materials Research Society Conference' San Francisco-California/United States of America, 16-20 April 2001 (poster presentation)
- C.3) A. Tsetsekou, **O. Adamopoulos**, T. Papadopoulos, *'Experimental development of an ultra low fusing dental porcelain'*; '5th Congress of the Balkan Stomatological Society, BASS 2000' Thessaloniki/Greece, April 13-16 2000 (oral presentation)
- C.2) **O. Adamopoulos**, A. Tsetsekou, T. Papadopoulos, *'A comparison study of four dental porcelains for metal-ceramic dental applications and correlation with their structure'*; '19th Panhellenic Dental Conference' Heraklio-Crete/Greece, 27-30 October 1999 (oral presentation -in Greek)
- C.1) **O. Adamopoulos**, A. Tsetsekou, C.J. Stournaras, T. Papadopoulos, *'The effect of thermal processing on the properties of low-fusing dental porcelains'*; '6th Conference and exhibition of the European ceramic society' Brighton Conference Centre, Brighton/UK, 20-24 June 1999 (oral presentation).

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