CURRICULUM VITAE

Personal Data

Surname:	Trapalis
Name:	Christos
Nationality:	Greek
Languages:	Greek, English
Address:	NCSR Demokritos, IMS, 153 10, Athens, Greece, Tel.+30 210 65 03 343, Fax:+30 210 65 19 430 E-mail: trapalis@ims.demokritos.gr

Career/Employment

2005 - now Senior Researcher, Head of "Laboratory of Nanofunctional and Nanocomposite Materials", Institute of Materials Science, NCSR Demokritos

2000-2005 Research associate, Sol-Gel Laboratory, IMS, NCSR Demokritos

1996-2000 Postdoctoral Researcher, Sol-Gel Laboratory, IMS, NCSR "Demokritos"

Education

1987-1991 **Ph.D. in Chemistry.** "University of Chemical Technology and Metallurgy", Sofia.

1978-84 **B. Sc. Chemical Engineer.** "Higher Institute of Chemical Technology and Metallurgy", Sofia.

Teaching Experience

2009- now **Hellenic Open University**. School of Science & Technology, teaching of "Physical Chemistry".

2004- 2008 **Aegean University.** Department of Products Design Engineering, Ermoupolis, Syros. Professor in "Materials Technology" and "New Materials".

1994-2004 **Higher Technological Educational Institute – Athens.** Prof. in: "Physical Chemistry", "Technology of Glass and Ceramics", "Conservation of Archaeological Findings".

Scientific Interests

Visible Light Active Photocatalysts, Nanostructured Powders and Coatings, CNT and Graphenes/Oxide Nanocomposites, Metal – Oxide Nanocomposites, Hybrid organic – Inorganic Materials, Magnetic Nanoparticles,

Reviewer in International Refereed Journals including: Acta Biomaterialia, Applied Catalysis B: Environmental, Catalysis Communications, Chemical Engineering Journal, Journal of Catalysis**,** Journal of the American Chemical Society, J. Molecular Catalysis A: Chemical, J. Sol-Gel Science and Technology, J. Non-Crystalline Solids, J. Solid State Chemistry**,** Langmuir**,** Materials Science and Engineering B, Materials Chemistry**,** Materials Chemistry and Physics**,** Microporous & Mesoporous Materials, Thin Solid Films.

Publications

(a)	Number of papers in refereed journals:	73
(b)	Number of communications to scientific meetings:	65
(c)	Patents:	5, (2 Greek)
(d)	Citations:	> 800
(e)	H-factor:	17

Selected Publications in Refereed Journals

1. "The threonine effect on calcium phosphate preparation from a solution containing Ca/P = 1.33 molar ratio", Mahmud, K., Mitsionis, A., Vaimakis, T., Kourkoumelis, N., **Trapalis, C.**, **Ceramics International**, **2010, 36, 6, 1893-1899.**

2. "Photocatalytic Degradation of Mecoprop and Clopyralid in Aqueous Suspensions of Nanostructured N-doped TiO_2", D. Šojić, V. Despotović, B. Abramović, Nadia Todorova, T. Giannakopoulou and **C. Trapalis, Molecules, 2010, 15, 5, 2994-3009.**

3. "Organic functionalisation of graphenes", Georgakilas, V., Bourlinos, A.B., Zboril, R., Steriotis, T.A., Dallas, P., Stubos, A.K., **Trapalis, C., Chemical Communications**, **2010, 46**, **10, 1766-1768.**

4. "The effect of citric acid on the sintering of calcium phosphate bioceramics", Mitsionis, A.I., Vaimakis, T.C., **Trapalis, C.C., Ceramics International, 2010, 36, 2, 623-634.**

5. "Aqueous-phase exfoliation of graphite in the presence of polyvinylpyrrolidone for the production of water-soluble graphenes", A.B. Bourlinos, V. Georgakilas, R. Zboril, T.A. Steriotis, A.K. Stubos, **C. Trapalis, Solid State Communications, 2009, 149, 47-48, 2172-2176.**

6. "Description of TiO_2 thin films treated in NH_3 atmosphere by optical dispersion models", Giannakopoulou T, Todorova N, Osiceanu P, Lagoyannis A., Vaimakis, T., **Trapalis, C., Thin Solid Films, 2009, 517**, **24**, **6694-6699.**

7. "Removal of Reactive Red 195 from aqueous solutions by adsorption on the surface of TiO_2 nanoparticles", Belessi V, Romanos G, Boukos N, Lambropoulou, D., **Trapalis, C., J. Hazardous Materials**, **2009, 170**, **2-3**, **836-844.**

8. "Atomic force microscopy study of TiO_2 sol–gel films thermally treated under NH_3 atmosphere", **C. Trapalis**, N. Todorova, M. Anastasescu, C. Anastasescu, M. Stoica, M. Gartner, M. Zaharescu, T. Stoica, **Thin Solid Films, 209, 517, 23, 6243-6247.**

9. "Experimental investigation of electric and magnetic responses in composites with dielectric resonator inclusions at microwave frequencies", Giannakopoulou, T., Niarchos, D., **Trapalis, C.**, **Applied Physics Letters, 94, 24, art. no. 242506.**

10. "Polypyrrole/MWNT nanocomposites synthesized through interfacial polymerization", Vasilios Georgakilas, Panagiotis Dallas, Dimitrios Niarchos, N. Boukos, **Christos Trapalis, Synthetic Metals, 2009, 159, 7-8, 632-636.**

11. "The effect of thermal treatment on antibacterial properties of nanostructured TiO_2(N) films illuminated with visible light", C. Vacaroiu , M. Enache, M. Gartner, G. Popescu G, A. Brezeanu, T. Giannakopoulou, N. Todorova, **C. Trapalis, World Journal of Microbiology & Biotechnology, 2009, 25, 1, 27-31.**

12. "Study of fluorine-doped TiO_2 sol-gel thin coatings", T. Giannakopoulou, N. Todorova, T. Vaimakis, **C. Trapalis, J. Solar Energy Engineering-Transactions of the ASME**, **2008, 130**, **4**, **ID: 041007.**

13. "Structure tailoring of fluorine-doped TiO_2 nanostructured powders" N. Todorova, T. Giannakopoulou, T. Vaimakis, **C. Trapalis, Materials Science and Engineering: B, Advanced Functional Solid-State Materials, 2008, 152**, **1-3, 50-54.**

14. "Electrical conductivity and photoconductivity studies of TiO_2 sol-gel thin films and the effect of N-doping", K. Pomoni, A. Vomvas, **C. Trapalis, J. Non-Cryst. Solids, 2008, 354, 35-39, 4448-4457.**

15. "Multipurpose Organically Modified Carbon Nanotubes: From Functionalization to Nanotube Composites", V. Georgakilas, A. Bourlinos, D. Gournis, T. Tsoufis, **C.**

Trapalis, A. Mateo-Alonso, and M. Prato, **J. Am. Chem. Soc**., **2008, 130**, **27, 8733-8740.**

16. "Synthesis, Characterization and Aspects of Superhydrophobic Functionalized Carbon Nanotubes" Vasilios Georgakilas, Athanasios B. Bourlinos, Radek Zboril, and **Christos Trapalis, Chem. Mater. 2008, 20 (9), p.2884-2886.**

17. "One-step solid state synthesis of capped γ-Fe_2O_3 nanocrystallites", R. Zboril, A. Bakandritsos, M. Mashlam, V. Tzotzios, P. Dallas, **C. Trapalis,** D. Petridis, **Nanotechnology, 2008, 19, 9, art. no. 095602.**

18. "Doped Sol-Gel TiO_2 Films for Biological Applications", M. Gartner**, C. Trapalis**, N. Todorova, T. Giannakopoulou, G. Dobrescu, M. Anastasescu, P. Osiceanu, A. Ghita, M. Enache, L. Dumitru, T. Stoica, M. Zaharescu, J.Y. Bae, S.H. Suh, **Bull. Korean Chem. Soc. 2008, 29, 5, 1038.**

19. "Investigation on the nitrogen doping of multilayered, porous TiO_2 thin films", M. Gartner, P. Osiceanu, M. Anastasescu, T. Stoica, T.F. Stoica, **C. Trapalis**, T. Giannakopoulou, N. Todorova, A. Lagoyannis, **Thin Solid Films**, 2008, **516**, **22**, **8184-8189.**

20. "Dark conductivity and transient photoconductivity of nanocrystalline undoped and N-doped TiO_2 sol-gel thin films", K.Pomoni, A.Vomvas and **C. Trapalis**, **Thin Solids Films, 2008, 516, 6, 1271-1278.**

21. "Preparation of Fluorine-Doped TiO_2 Photocatalysts with Controlled Crystalline Structure", N. Todorova, T. Giannakopoulou, G. Romanos, T. Vaimakis, Jiaguo Yu, **C. Trapalis, Int. J. of Photoenergy, 2008, ID 534038, 1–9.**

22. "Calorimetric Study of the Dissolution Kinetics of Calcareous Phosphate Ores using Dilute Acetic Acid Solutions", T.C. Vaimakis, E.D. Economou and **C.C. Trapalis, J. Thermal Anal. & Calorim., 2008, 92, 3, 783–789.**

23. "Photoconductivity in sol-gel TiO_2 thin films with and without ammonia treatment", Vomvas A, Pomoni K, **Trapalis C, et al., Materials Science-Poland, 2007, 25, 3, 809-816.**

24. "Sintering of Hydroxyapatite Lath-like Powders", G.C. Koumoulidis, **C.C. Trapalis**, and T.C. Vaimakis, **J. Thermal Anal. & Calorim.**, **2006, 84**, **1**, **165-174**.

25. "Thermal behavior of Fe_2O_3/TiO_2 Mesoposous Gels**",** V. Balek, N. Todorova, **C. Trapalis** et al. **J. Ther. Analysis and Calorimetry, 2005, 80, 503-509.**

26. "Effect of fluorine doping and SiO_2 under-layer on the optical properties of TiO_2 thin films", T. Giannakopoulou, N. Todorova, **C. Trapalis** and T. Vaimakis, **Materials Letters, 2007, 61, 23-24, 4474-4477.**

27. "Effects of Calcination Temperature on the Microstructures and Photocatalytic Activity of Titanate Nanotubes", J. Yu, H. Yu, B. Che*ng*, **C. Trapalis** , **Journal of Molecular Catalysis A: Chemical, 2006, 249**, **1-2, 135-142.**

28. "$TiO_2(Fe^{3+})$ Nanostructured Thin Films with Antibacterial Properties"**, C.C. Trapalis**, P. Keivanidis, G. Kordas, M. Zaharescu, M. Crisan, A. Szatvanyi, M. Gartner, **Thin Solid Films, 433, 1, 186-190, 2003.**