

CURRICULUM VITAE

Theodosis Skaltsas

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EDUCATION

- Ph.D. in Chemistry, National and Kapodistrian University of Athens, Greece (2016)
- M.Sc. in "Polymer science and its applications", Chemistry Department, National and Kapodistrian University of Athens, Greece (2013)
- B.Sc. in Material Science, University of Patras, Greece (2011)

PROFESSIONAL EXPERIENCE AND APPOINTMENTS

07/2016 – present: Post-Doctoral Researcher, Theoretical and Physical Chemistry Institute, National Hellenic Research Foundation, Greece

MAIN RESEARCH INTERESTS

- Synthesis and characterization of hybrid materials based on carbon nanostructures and polymers
- Synthesis of semiconducting nanoparticles for photocatalytic applications
- Electronic characterization of semiconducting materials via spectroscopic means (UV-Vis, photoluminescence, time-correlated single photon counting)

EXTERNAL FUNDING

- Participant in "Synthesis and characterization of functional materials" (NSRF 2007-2013 action "Development of Research Centres – ΚΡΗΠΙΣ", project 447963 "New Multifunctional Nanostructured Materials and Devices–POLYNANO").

PROFESSIONAL AFFILIATIONS & ACTIVITIES

- Member of "Designing novel materials for nanodevices: From theory to practice", Acronym: NanoTP, COST Action MP0901, Funding Source: EU FP7".
- Member of "Multi-Functional Nano-Carbon Composite Materials", Acronym: MultiComp, COST Action MP15107, Funding Source: EU H2020".

AWARDS AND DISTINCTIONS

- The article "Photoinduced electron/energy transfer of graphene-copolymer hybrid material electrostatically connected with porphyrin" was **highlighted** by the website Chemistryviews.org: "Graphene Takes Charge – New Route to Functionalization", by Anne Deveson.
- **Invited** in the Onassis Foundation Lectures Series: Nanoscience and Nanotechnology 2013, Heraklion, Crete.

CONFERENCES & PUBLICATIONS

10 international and 1 national conferences, 10 peer-reviewed publications.

SELECTED PUBLICATIONS

1. T. Skaltsas, A. Stergiou, D. D. Chronopoulos, S. Zhao, H. Shinohara, N.Tagmatarchis, All-Carbon Nanosized Hybrid Materials: Fluorescent Carbon Dots Conjugated to Multiwalled Carbon Nanotubes. *Journal of Physical Chemistry C*, **2016**, *120*, 8550.

2. T. Skaltsas, G. Mountrichas, S. Zhao, H. Shinohara, N. Tagmatarchis, S. Pispas, "Single-step functionalization and exfoliation of graphene with polymers under mild conditions", *Chemistry: A European Journal*, **2015**, *21*, 18841.
3. T. Skaltsas, N. Karousis, S. Pispas, N. Tagmatarchis, "Photocatalytic applications with CdS • block copolymer/exfoliated graphene nanoensembles: hydrogen generation and degradation of Rhodamine B", *Nanotechnology*, **2014**, *25*, 445404.
4. T. Skaltsas, X. Ke, C. Bittencourt, N. Tagmatarchis, "Ultrasonication induces oxygenated species and defects onto exfoliated graphene", *Journal of Physical Chemistry*, **2013**, *117*, 23272.
5. T. Skaltsas, N. Karousis, H. J. Yan, C. R. Wang, S. Pispas, N. Tagmatarchis, "Graphene exfoliation in organic solvents and switching solubility in aqueous media with the aid of amphiphilic block copolymers", *Journal of Material Chemistry*, **2012**, *22*, 21507.