

PERSONAL INFORMATION: **Christos Trapalis, PhD**

Research Director
NCSR “Demokritos”
Institute of Nanoscience and Nanotechnology
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**SCIENTIFIC CAREER:**

- 2006 – Today **Director of Research (Researcher Grade A)**
Head, Nanofunctional and Nanocomposite Materials Laboratory
Institute of Nanoscience and Nanotechnology, NCSR “Demokritos”
- 2000 – 2005 **Senior Researcher**, Sol-Gel Laboratory, IMS, NCSR “Demokritos”
- 1995 – 2000 **Research Officer**, Sol-Gel Laboratory, IMS, NCSR “Demokritos”
- 1992 – 1995 **Postdoctoral Researcher**, Sol-Gel Laboratory, IMS, NCSR “Demokritos”

RESEARCH INTERESTS:

Low-Dimensional Materials, 2D Materials, MXenes, Graphene and Graphene Oxide, Graphene/Metal-oxide Nanocomposites, Nanostructures, Supercapacitors, Electrochemistry, CNT Decorated with Metal Nanoparticles, Visible Light Active Photocatalysts, Solar Fuels, CO₂ to Nanocarbons Conversion, Nanostructured Powders and Coatings, Sensitization of large band-gap semiconductors, Metal – Oxide Nanocomposites, Hybrid organic – Inorganic Materials, Morphosynthesis.

RESEARCH ACHIEVEMENTS:

Publications in peer review journals **138**; Citations > **6100**; h-index **41**; i10-index **84**; Patents **6 (2 Greek)**; Participation in International Scientific Congresses > **45**; Invited Speeches **25**

STUDENTS SUPERVISION:

- 2012 - 2021 **NCSR Demokritos, INN**, Supervision of ten (10) Ph.D. students on “Materials for Catalysis, Energy Storage and Environmental Protection”
- 2015 - 2021 **Hellenic Open University**, Supervision of thirteen (13) M.Sc. students on “Environmental Catalysis for Depollution & Clean Energy Production”

SELECTED PUBLICATIONS:

1. “Novel Torus Shaped g-C₃N₄ Photocatalysts”, I. Papailias, N. Todorova, T. Giannakopoulou, N. Ioannidis, P. Dallas, **C. Trapalis**, Appl.Catal. B: Environ, 268 (2020), 118733, **(IF-19.503)**.
2. “Chemical vs Thermal Exfoliation of g-C₃N₄ for NO_x Removal under Visible Light Irradiation”, I. Papailias, N. Todorova, N. Ioannidis, T. Giannakopoulou, C. Athanassekou, N. Boukos, D. Dimotikal, **C. Trapalis**, Appl. Catal. B: Environ. 239 (2018) 16-26, **(IF-19.503)**.
3. “Graphene-based materials via benzidine-assisted exfoliation and reduction of graphite oxide and their electrochemical properties”, E.C. Vermisoglou, T. Giannakopoulou, G. Romanos, N. Boukos, V. Psycharis, C. Lei, C. Lekakou, D. Petridis, **C. Trapalis**, Appl. Surf. Sci. 392 (2017) 244-255, **(IF-6.610)**.
4. “Tailoring the energy band gap and edges’ potentials of g-C₃N₄/TiO₂ composite photocatalysts for NO_x removal”, T. Giannakopoulou, I. Papailias, N. Todorova, N. Boukos, J.G. Yu, **C. Trapalis**, Chem. Eng. J. 310 (2016) 571-580, **(IF-13.07)**.
5. “Eco-efficient TiO₂ modification for air pollutants oxidation”, S. Karapati, T. Giannakopoulou, N. Todorova, **C. Trapalis**, Appl. Catal. B, Environ. 176 (2015) 578-585, **(IF-19.503)**.