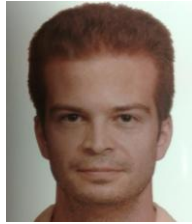


PERSONAL INFORMATION

Ilias Papailias



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EDUCATION

08/07/2015–23/07/2020

PhD in Chemical Engineering

School of Chemical Engineering, National Technical University of Athens, Greece

Title: "Development of novel photocatalysts with pyrolysis techniques for environmental and energy applications"

24/09/2003–18/11/2008

Diploma in Chemical Engineering

School of Chemical Engineering, National Technical University of Athens, Greece

Thesis title: "Evaluation of the antioxidant activity of phenolic compounds with fluorescence spectroscopy"

PROFESSIONAL EXPERIENCE

08/09/2014–Today

Research Associate

Institute of Nanoscience and Nanotechnology, NCSR "Demokritos", Athens, Greece

"2D Photocatalytic heterostructures for air pollutants oxidation – 2D Photostructure"

"Development of nanocomposite and nanofunctional materials – NanoMAT"

"Development of TiO₂/Graphene nanocomposites for photocatalytic hydrogen production – IKYDA 2015" (Greece-Germany)

"Photoactive TiO₂/Graphene containing paints for air purification – PhotoTIGRA" (Greece-China)

SELECTED PUBLICATIONS

- I. Papailias**, N. Todorova, T. Giannakopoulou, N. Ioannidis, P. Dallas, D. Dimotikali, C. Trapalis, "Novel torus shaped g-C₃N₄ photocatalysts", *Applied Catalysis B: Environmental* 268 (2020) 118733.
- I. Papailias**, N. Todorova, T. Giannakopoulou, N. Ioannidis, N. Boukos, C. Athanasekou, D. Dimotikali, C. Trapalis, "Chemical vs thermal exfoliation of g-C₃N₄ for NO_x removal under visible light irradiation", *Applied Catalysis B: Environmental* 239 (2018) 16-26.
- T. Giannakopoulou, **I. Papailias**, N. Todorova, N. Boukos, Y. Liu, J. Yu, C. Trapalis, "Tailoring the energy band gap and edges' potentials of g-C₃N₄/TiO₂ composite photocatalysts for NO_x removal", *Chemical Engineering Journal* 310 (2017) 571-580.
- I. Papailias**, M. Giannouri, A. Trapalis, N. Todorova, T. Giannakopoulou, N. Boukos, C. Lekakou, "Decoration of crumpled rGO sheets with Ag nanoparticles by spray pyrolysis", *Applied Surface Science* 358 (2015) 84-90.

ADDITIONAL INFORMATION

Languages

English, Certificate of Proficiency in English (Cambridge).

Seminars

"ISO/IEC 17025 - Requirements for Testing and Calibration Labs", TUV Hellas.

"Lean Six Sigma - Yellow Belt Training", University of Piraeus & TUV Austria Hellas.

"Business Reorganization Strategy", Hellenic Open University.

Awards

"**Iakovos Giourounlian**" **excellence prize** for best doctoral thesis of industrial interest. Received in 2021 from the Michail N. Stasinopoulos - VIOHALKO Public Benefit Foundation.

"**Virginia Manasaki**" **award** for PhD candidates in the field of waste management, environmental and energy issues. Received in 2019 from the Association of Solid Waste Management of Crete.

"**Thomaidion**" **award** for best scientific publications of years 2017 and 2019. Received from the National Technical University of Athens.