

Tommaso Civitarese
Curriculum Vitae Brevis

Education

2013 – BSc in Chemical Engineering

2017 – Msc in Nanotechnology Engineering, 110 & lode/110

Present - Phd in Mathematical Models for Engineering, Electromagnetics and Nano-sciences

Teaching

2018 and 2019 – tutor for the physics course at the department of engineering in computer science in Sapienza University of Rome.

Research activities

Graphene nanoribbons and graphene nanogaps for biomolecular sensors by using ab-initio quantum mechanics calculation based on Density Functional Theory (DFT) and the Non-Equilibrium Green Function method (NEGF).

Publications

Feroci, M., Civitarese, T., Pandolfi, F., Petrucci, R., Rocco, D., Zane, D., Zollo, G., Mattiello, L. (2019). Electrochemical Studies of New Donor-Acceptor Oligothiophenes. *ChemElectroChem*, 6(15), 4016-4021.

Civitarese, T., & Zollo, G. (2020). Gap Size Dependence of Atomistic-Resolved Peptide Bond Signals by Tunneling Current Across Nano-Gaps of Graphene Nano-Ribbons. *Computation*, 8(2), 29.