



Manos Anyfantakis

**Materials Scientist
& Physical Chemist**



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WORK EXPERIENCE

EXTERNAL COLLABORATOR

Jožef Stefan Institute | Slovenia | 2024 – Present

- **R&D:** Biodegradable thin polymer films for controlled drug release. Cellulose-based photonic elements.

MATERIALS ENGINEER & LAB COORDINATOR

OffWorld Europe | Luxembourg | 2023 – 2024

- **Lab Setup:** Design & creation of 3 labs: Materials Processing, Electronic Integration & Mechanical Workshop
- **Lab Management:** Equipment purchase & setup. Chemical/consumables inventory. SOP developm. Lab Safety.
- **R&D:** Water adsorption/desorption with sorbent materials. Water purification & treatment. Lunar icy regolith simulat development. Space-grade materials selection for payloads on robotic platforms.
- **Documentation:** Technical notes co-authoring. Review meetings with European Space Agency.

RESEARCH SCIENTIST

University of Luxembourg | Luxembourg | 2017 – 2023

- **Lab Setup:** Design & creation of Microscopy & Laser Lab.
- **Lab Management:** Equipment coordinator. Assistant Lab Safety Coordinator
- **R&D:** Green synthesis of biodegradable thin polymer films for encapsulation of chemical & biological cargos. Self-assembly of bio-based nanomaterials (polymers, nanoparticles) for photonics & sensing.
- **Project Management:** Milestones monitoring. Scientific/financial reports. Deliverables Present. (FNR Core Jr)

STAFF SCIENTIST

École Normale Supérieure de Paris | France | 2013 – 2017

- **R&D:** Nanoparticle deposition from evaporating colloids for patterning & diagnostics. Spontaneous & external field-directed self-assembly of particles at interfaces. Microfluidics. Optofluidics. Magnetofluidics.
- **Project Management:** Scientific & financial reports. (independent Marie Curie IE fellowship)

RESEARCH ASSOCIATE

Max Planck Institute for Polymer Research Mainz | Germany | 2011 – 2013

- **R&D:** Dynamic wetting of aqueous surfactant solutions.
- **Reporting:** Published articles & presentations delivered in international conferences.

SKILLS



- **Experimental.** Spectroscopy (UV/Vis, Raman, FTIR, DLS), microscopy (optical, SEM), polymer (DSC, TGA, GPC, rheology) & surface (AFM, profilometry, contact angle/surface tension) charact.
- **Materials.** Synthetic & bio-based polymers & colloids, films, liquid crystals, surfactants
- **Lab Experience.** >20 years in diverse labs (physics, chemistry, materials science & engineering) in both academia & industry
- **Leadership:** supervision of 11 MSc/PhD/Postdocs
- **Track Record.** 29 publications, 23 conference & 8 colloquium presentations
- **Proposals & Funding.** Secured as PI: €456,000 (FNR CORE Jr), €194,000 (EC Marie Curie IEF), complete management, technical & financial reporting
- **Software:** Office, Share Point, Origin Lab, ImageJ, MATLAB, Fusion 360, Quartz, Adobe Illustrator, Premiere Pro, ChatGPT, OpenArt
- **Lang:** Greek (native), English (fluent), German, French, Italian (basic)

EDUCATION



PhD, Chemistry (2010), University of Crete (GR) & Max Planck Institute for Polymer Research (DE)

MSc, Applied Molecular Spectroscopy (2007), University of Crete (GR)

BSc, Materials Science & Technology (2005), University of Crete (GR)