# **Manos Anyfantakis**

Driven Materials Scientist with a Chemistry PhD, with passion for developing innovative yet sustainable cutting-edge technologies and a deep interest in new technologies overall. A diverse profile arising from 20 years' experience in academia & space industry & a broad spectrum of interests. Combines a blend of knowledge, conceptual & analytical thinking, attention to detail, organizational skills, & future vision. Openminded, explored numerous topics living in five countries & collaborating with a global network. Self-driven, strategic, & perseverant, looks for continuous development.





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**Skills** 

#### **Technical Expertise**

- spectroscopy UV/Vis, Raman, FTIR, SLS & DLS
- microscopy brightfield, darkfield, confocal, fluorescence, POM, SEM
- polymer/colloid characterisation DSC, TGA, GPC, rheology
- surface characterisation surface tension & contact angle, profilometry, AFM, ζ potential
- surface treatment corona/plasma treat., silanisation

#### **Materials & Energy Expertise**

- lunar regolith simulants
- electrolysis for H<sub>2</sub> production
- sorbents: gels, zeolites, electrolytes
- synthetic & bio-based polymers e.g., PI, PB, cellulose
- colloids & lyotropic liquid crystals carbon black, silica, cellulose NCs
- biodegradable thin polymer films
- additives for formulations e.g., surfactants, co-solvents

### **Proposal Development**

- complete research grant management (initiation till closure)
- won CORE Jr fellowship, FNR, project COReLIGHT (2018)
- won Marie Skłodowska-Curie IF, EC, project DIOPTRA (2014)
- co-wrote **winning** "Heraclitus" proposal, GSRT (2010)

#### **Communication Skills**

- 29 science publications (3 reviews)
- 23 international conference & 8 **colloquium** presentations
- science communication: demos, press releases, podcast

### Leadership & Interpersonal

• **supervision**: 12 MSc/PhD/Postdocs



**Software** 

MS Office, SharePoint, Adobe Illustrator, Origin Lab, ImageJ, MATLAB, ChatGPT, OpenArt



Languages

English (fluent), Greek (native), French, German, Italian (basic)



present

esric

# Work History

# Senior R&T Scientist

European Space Resources Innovation Centre, Belval Luxembourg

- **R&D Topics:** Characterisation of surface properties of lunar regolith, regolith self-assembly, regolith-based composite development
- Supervision: 1 MSc student

### **Materials Engineer & Lab Coordinator**

OffWorld Europe, Kockelscheuer, Luxembourg

2023/04

2024/02



2017/07

2023/03

UNIVERSITÉ DU LUXEMBOURG

- Creation of 3 labs: Materials Processing, Electrical/Electronic Integration & Mechanical Workshop (planning, procurement, set-up, maintenance)
- Lab safety responsible: protocol development, compliance with regulations, risk assessments, selection of safety equipment and items
- Lead of R&D team; topics: water adsorption/desorption & treatment, lunar icy regolith simulants, space-grade material selection
- **Reporting:** technical notes; participation in ESA review meetings

### Research Scientist (Principal Investigator)

University of Luxembourg, Luxembourg city, Luxembourg

- Lab setup: optics lab creation; equipment purchase, installation & use
- **Equipment Coordinator:** responsible for maintenance & utilization
- Ass. Lab Safety Coordinator: safety trainings (presentations, videos)
- Multidisciplinary R&D: design & execution, high-impact articles
- Topics: biodegradable thin polymer films synthesis, self-assembly of sustainable nanomaterials (cellulosic polymers/colloids, plasmonic NPs)
- Funding acquisition: €456,000 from FNR (CORE Junior program)
- **Project management:** milestones setting & progress monitoring; writing of scientific & financial reports; presentation of deliverables
- Supervision & Teaching: 3 MSc & 1 BSc student, taught 1 MSc course

# Staff Scientist (Marie Curie Fellow)

2013/03

École Normale Supérieure, Paris, France



- Multidisciplinary R&D: designed & led numerous projects; conducted experiments; analysed data; wrote papers; multiple presentations
- **Topics:** nanoparticle deposition, colloid self-assembly, microfluidics
- Funding acquisition: €194,000 from EC (Marie Curie fellow)
- **Project management:** financial management, scientific reports
- **Supervision:** 1 Postdoc, 3 PhD candidates & 1 MSc student

### Postdoctoral Researcher

2011/03

2013/02



Max Planck Institute for Polymer Research, Mainz, Germany

- Independent R&D: designed & conducted research, developed setups
- Topics: surfactants, dynamic wetting, surface science
- **Reporting:** Published articles & presented in international conferences
- Supervision: 1 BSc & 1 MSc student



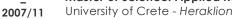
### Education

2007/11

2010/01 2005/10

2005/11

University of Crete - Heraklion, Greece & Max Planck Institute for Polymer Research – Mainz, Germany



2001/10 Bachelor of Science: Materials Science & Technology





Ph.D.: Chemistry

Master of Science: Applied Molecular Spectroscopy University of Crete - Heraklion, Greece

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