

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. Open-minded, explored numerous topics living in five countries & collaborating with a global network. Self-driven, strategic, & perseverant, looks for continuous development.



Belval, Luxembourg
+39 331 380 0616
anyfas.com@gmail.com
www.anyfas.com



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 **H₂ 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)



2025/03

– present



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

- **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)

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

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

Ph.D.: Chemistry

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

Master of Science: Applied Molecular Spectroscopy

University of Crete - Heraklion, Greece

Bachelor of Science: Materials Science & Technology

University of Crete - Heraklion, Greece

2023/04

–

2024/02



2017/07

–

2023/03



2013/03

–

2017/03



2011/03

–

2013/02



2007/11

–

2010/01

2005/10

–

2007/11

2001/10

–

2005/11

