Sakellarios Mailis

Senior Researcher
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Education

- Doctoral Thesis "Optical signal processing with photorefractive materials" (1997), Physics department, University of Crete
- MSc Physics (Atomic Physics) (1994), University of Crete, Greece
- Bachelor of Science in Physics (1990), University of Crete, Greece

Research interests

- Laser materials synthesis and processing
- 2D materials
- Nonlinear and integrated optics
- Ferroelectric materials and domain engineering

Employment history

- 2019–2026: Assistant Professor, Dpt. of Photonics and Quantum Materials, Skolkovo Institute of Science and Technology (Skoltech)
- 2015–2018: Associate Professor, Optoelectronics Research Centre, University of Southampton
- 2008–2015: Principal Research Fellow, Optoelectronics Research Centre, University of Southampton
- 2001–2008: Senior Research Fellow, Optoelectronics Research Centre, University of Southampton

- 1998–2001: Research Fellow, Optoelectronics Research Centre, University of Southampton
- 1996–1998: Research Fellow, Foundation for Research and Technology Hellas (FORTH)

Teaching experience

- "Experimental Optics I" MSc experimental course Skoltech (Module leader)
- "Experimental Optics II" MSc experimental course Skoltech (Module leader)
- "Introduction to Photonics" 1st year (PHYS 1004) module with labs, Physics & Astronomy, University of Southampton (Module leader)
- MSc in photonic technologies, Fibre technologies, "Research Summer Projects" module (OPTO 6012), Optoelectronic Research Centre, University of Southampton (Module leader)
- "Photonics labs" (PHYS 2009) 2nd year module, Physics & Astronomy, University of Southampton (Deputy)
- PHYS2022, 2nd year labs (Deputy)
- Master's projects supervision (Physics & Astronomy), University of Southampton
- Post graduate lectures at the Optoelectronics Research Centre, University of Southampton
- Organizing Summer research students training sessions, University of Southampton
- Summer schools lecturing/lab-demonstrating, University of Southampton
- Supervised 7 PhD students to completion and numerous MSc theses

Research funding (PI/co-I)

- RSF grant "Spatially-selective synthesis of 2D materials" 2021–2025 (PI) Value: $412,200
- EPSRC EP/M022757/1 Co-I Laser Engineered Silicon, 10/2015–09/2018, Value: £570,518 (Co-I)

- SP17304, Long term Diamond light source access proposal, "Microfocus XRD of laser-processed photonic structures" (PI)
- SP13025, Long term Diamond light source access proposal, "Microfocus XRD of laser crystallized silicon photonic wires" (Co-I)
- SP10155, Diamond light source access proposal, "Microfocus XRD of pre-structured silicon optical waveguides" (Co-I)
- SP9233, Diamond light source access proposal, "Microfocus XRD of bandgap engineered semiconductor silicon optical waveguides" (Co-I)
- E.U. STREP "3D-DEMO" "Single step 3D deposition of complex nanopatterned multifunctional oxides thin films" (PI), 2006–2010, €291,800
- EPSRC GR/S09999/01 Single-step UV direct-writing of channel waveguides in lithium niobate and tantalate (co-author), 2003–2004, £226,846

Awards and distinctions

- Vice Chancellor PhD Supervision award 2010
- Associate Fellow of the Higher Education Academy UK
- *Research Highlights Nature Photonics* nature photonics | VOL 4 | NOVEMBER 2010 featured S. Mailis, J. Opt. 12, 095601 (2010), "UV laser induced ferro""electric domain inversion in lithium niobate single crystals"
- Commentary in "news and views" Nature photonics Nature Photonics VOL 15 | NOVEMBER 2021, 792–799 "On-chip non-magnetic optical isolator"

Publications and analytics

- Publications: over 100 publications in international refereed journals,
- ~100 conference proceedings,
- 1 book chapter,
- 3 patents and one pending
- ~20 invited talks in international conferences
- Scopus: h-index 30, Google Scholar: h-index 34, i-10 index 84, (since 2021 h-index 16, i-10 index 24)