Jürgen Mony

Curriculum Vitae

ACADEMIC BACKGROUND

Postdoctoral Researcher 2022-
University of Gothenburg, Sweden
Research Group of Prof. Karl Börjesson

Doctor of Philosophy in Chemistry 2017-2022
University of Gothenburg, Sweden
PhD Thesis: "Excited state dynamics in the strong coupling regime."
Supervisor: Prof. Karl Börjesson

Bachelor and Master of Science in Chemistry 2011-2017
Ludwig-Maximilians-Universität München (LMU Munich), Germany
Master's thesis: "Photocatalytic H_2 generation and CO_2 reduction on metal chalcogenide nanoplatelets"
Supervisor: Prof. Jochen Feldmann and Dr. Jacek Stolarczyk

LABORATORY SKILLS

Spectroscopy	UV-Vis spectroscopy	Proficient
	Steady-state photoluminescence spectroscopy	Proficient
	Time-resolved photoluminescence spectroscopy	Proficient
	FT-IR spectroscopy	Advanced
	Transient-absorption spectroscopy	Intermediate
Microscopy	Transmission electron microscopy	Intermediate
Lab operation	Handling and alignment of optics	Intermediate
	Photocatalysis	Advanced
	Magnetron sputtering	Advanced
	Molecular evaporator	Advanced
	Glovebox	Advanced
	Spincoating	Advanced
Sythesis	Nanoparticles	Intermediate
	Inorganic synthesis	Intermediate
	Organic synthesis	Elementary

COMPUTER SKILLS

Origin-Lab	Data analysis and visualization	Advanced
LaTeX	Document preparation and formatting	Advanced
Inkscape	Visualization	Advanced
Python	Data analysis, visualization and programming	Intermediate

LANGUAGE SKILLS

Languages	German	Mother Tongue
	English	Fluent
	Swedish	Elementary

SELECTED PUBLICATIONS

[1] **Jürgen Mony**, Yi Yu, Clara Schäfer, Suman Mallik, Khushbu Kushwaha and Karl Börjesson. Interplay between Polaritonic and Molecular Trap States. *J. Phys. Chem. C* **2022**, *126(18)*, 7965-7972.

[2] **Jürgen Mony**, Clàudia Cliement, Anne Ugleholdt Petersen, Kasper Moth-Poulsen, Johannes Feist and Karl Börjesson. Photoisomerization Efficiency of a Solar Thermal Fuel in the Strong Coupling Regime. *Adv. Funct. Mater.* **2021**, *31*, 2010737.

[3] **Jürgen Mony**, Manuel Hertzog, Khushbu Kushwaha and Karl Börjesson. Angle-Independent Polariton Emission Lifetime Shown by Perylene Hybridized to the Vacuum Field Inside a Fabry–Pérot Cavity. *J. Phys. Chem. C* **2018**, *122(43)*, 24917–24923.

[4] Manuel Hertzog, Mao Wang, **Jürgen Mony** and Karl Börjesson. Strong light–matter interactions: a new direction within chemistry. *Chem. Soc. Rev.* **2019**, *48*, 937.

CONFERENCES

2018 The second international workshop on Strong Coupling with Organic Molecules (SCOM2018), Eindhoven, The Netherlands.
Poster presentation: "Angle dependent lifetime measurements of strongly coupled molecules in an optical cavity"

2021 The third international workshop on Strong Coupling with Organic Molecules (SCOM2021), Gothenburg (online), Sweden.
Poster presentation: "Photoisomerization of norbornadiene in the strong coupling regime"

2021 30^{th} International Conference on Photochemistry (ICP2021), Geneva (online), Switzerland.
Poster presentation: "Photoisomerization efficiency of a solar thermal fuel in the strong coupling regime"

2021 SPIE Conference: Physical Chemistry of Semiconductor Materials and Interfaces XX, San Diego (online), USA.
Poster presentation: "Photoisomerization efficiency of a solar thermal fuel in the strong coupling regime"