

Mathias Micheel

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EMPLOYMENT

10/2018–present

LEIBNIZ-INSTITUTE OF PHOTONIC TECHNOLOGY

DR. MARIA WÄCHTLER

Postdoctoral researcher

- ultrafast and steady-state spectroscopy on inorganic semiconductor nanostructures and redoxactive molecules
- synthesis of colloidal nanoparticles
- preparation of thin nanoparticle films

09/2014–09/2018

LEIBNIZ-INSTITUTE OF PHOTONIC TECHNOLOGY

PROF. DR. BENJAMIN DIETZEK

PhD Student

- ultrafast and steady-state spectroscopy on conjugated oligo- and polymers
- (photo-)aging and self-healing experiments
- characterization of polymers in dispersion and solid films

08/2014

HEINRICH HEINE UNIVERSITY DÜSSELDORF

PROF. DR. PETER GILCH

Research assistant

- photochemical illumination experiments & steady-state spectroscopy

EDUCATION

09/2014–09/2018

FRIEDRICH SCHILLER UNIVERSITY JENA

PhD (Dr. rer. Nat)

Thesis: “Photophysical Characterization of Dynamically Linked Polymers for Self-Healing Applications” in the group of Prof. Dr. Benjamin Dietzek (*magna cum laude*)

04/2012–07/2014

HEINRICH HEINE UNIVERSITY DÜSSELDORF

M.Sc. Chemistry (1.7)

Thesis: “Substituenteneinfluss auf die Photochemie von 2(1H)-Pyrimidinon” (*Influence of substituents on the photochemistry of 2(1H)-pyrimidinone*) in the group of Prof. Dr. Peter Gilch (1.0)

Advanced Modules: Advanced Materials, Organic Photochemistry, Laser Spectroscopy, Environmental Chemistry, Crystallography

10/2008–03/2012

HEINRICH HEINE UNIVERSITY DÜSSELDORF

B.Sc. Business Chemistry (2.7)

Thesis: “Entwicklung von Solarzellen sensibilisiert mit Donor-Akzeptor-Farbstoffsystemen” (*Development of donor-acceptor-dye sensitized solar cells*) in the group of Prof. Dr. Karl Kleinermanns (1.0)

Advanced Module: Biochemistry

1999–2008

**ANNETTE-VON-DROSTE-HÜLSHOFF-GYMNASIUM
GELSENKIRCHEN**

A-Level (1.8)

Advanced Courses: Mathematics, English

TEACHING

2014–

**FRIEDRICH SCHILLER UNIVERSITY JENA/LEIBNIZ-INSTITUTE OF
PHOTONIC TECHNOLOGY**

Supervision of

- Practical lab courses in physical chemistry
- 8 Research students
- 1 Bachelor thesis
- 1 Master thesis

10/2013–01/2014

HEINRICH HEINE UNIVERSITY DÜSSELDORF

Student assistant

Development and teaching of the seminar „Chemistry for medicine students“

04/2013–07/2013

HEINRICH HEINE UNIVERSITY DÜSSELDORF

Student assistant

Seminar „Chemistry of the Elements“

**CONFERENCE
CONTRIBUTIONS**

As Organizer

2020-present

CATALIGHT YOUNG SCIENTIST SYMPOSIUM

Board of Organisation

As Participant

10+ conference contributions since 2014, list of 5 most recent

2021

Bunsentagung (poster)

2021

nanoGe Spring Meeting (poster)

2020

CataLight Young Scientist Symposium (poster)

2020

714. WE.-Heraeus-Seminar (poster)

2019

nanoge Fall Meeting (poster)

**FURTHER
QUALIFICATIONS**

VOLUNTARY REVIEWER

10+ reviews for Catalysts, Chemical Physics Letters, Journal of Biophotonics, Electronic Materials

2016–2018

**PHD STUDENT COUNCIL OF LEIBNIZ-INSTITUTE OF PHOTONIC
TECHNOLOGY**

- founding member of the council and acting vice-chair
- representation of PhD students at institute-internal conferences and meetings

10+ publications since 2015, list of 5 most relevant

- Schleusener, A.; **Micheel, M.**; Benndorf, S.; Rettenmayr, M.; Weigand, W.; Wächtler, M. Ultrafast Electron Transfer from CdSe Quantum Dots to an [FeFe]-Hydrogenase Mimic. *J. Phys. Chem. Lett.* **2021**, *12* (18), 4385–4391. <https://doi.org/10.1021/acs.jpcllett.1c01028>. (Preprint available at <https://doi.org/10.26434/chemrxiv.14333582.v1>)
- **Micheel, M.**; Liu, B.; Wächtler, M. Influence of Surface Ligands on Charge-Carrier Trapping and Relaxation in Water-Soluble CdSe@CdS Nanorods. *Catalysts* **2020**, *10*, 1143, doi:[10.3390/catal10101143](https://doi.org/10.3390/catal10101143).
- Ahner, J.; **Micheel, M.**; Geitner, R.; Schmitt, M.; Popp, J.; Dietzek, B.; Hager, M.D. Self-Healing Functional Polymers: Optical Property Recovery of Conjugated Polymer Films by Uncatalyzed Imine Metathesis. *Macromolecules* **2017**, *50*, 3789–3795, doi:[10.1021/acs.macromol.6b02766](https://doi.org/10.1021/acs.macromol.6b02766).
- Schönweiz, S.; Rommel, S.A.; Kübel, J.; **Micheel, M.**; Dietzek, B.; Rau, S.; Streb, C. Covalent Photosensitizer–Polyoxometalate-Catalyst Dyads for Visible-Light-Driven Hydrogen Evolution. *Chemistry – A European Journal* **2016**, *22*, 12002–12005, doi:[10.1002/chem.201602850](https://doi.org/10.1002/chem.201602850).
- **Micheel, M.**; Torres Ziegenbein, C.; Gilch, P.; Ryseck, G. Pyrimidinone: Versatile Trojan Horse in DNA Photodamage? *Photochemical & Photobiological Sciences* **2015**, *14*, 1598–1606, doi:[10.1039/C5PP00114E](https://doi.org/10.1039/C5PP00114E).