

## LOCAL AND SCIENTIFIC ORGANISERS

Philipp Adelhelm	Jena
Andrea Balducci	Jena
Thomas Bocklitz	Jena
Volker Deckert	Jena
Benjamin Dietzek	Jena (chair)
Stefanie Gräfe	Jena
Rainer Heintzmann	Jena
Ute Neugebauer	Jena
Jürgen Popp	Jena
Felix H. Schacher	Jena
Andrey Turchanin	Jena
Lothar Wondraczek	Jena

## CONGRESS OFFICE



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## ORGANISER



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## yPC- FORUM

The yPC-forum (career forum) is an annual symposium organised by yPC (young Physical Chemists) working group of the DBG. It aims at scientists in earlier stages of their careers (between PhD and first appointment as a professor) and provides a forum for discussion and exchange on career related issues and questions. The annual symposium features three to five invited talks (in German) and an open discussion on a central career planning-related topic.

## STUDENT TRAVEL GRANTS

The foundation of the Bunsen Society provides financial support for the participation of students at the conference (PhD students are not eligible). Universities are requested to submit a joint list of eligible students on behalf of their research groups no later than 15<sup>th</sup> of March 2019 to the Bunsen Society (geschaeftsstelle@bunsen.de). The list should contain information on the students' status and their scientific qualification. Furthermore, the list should rank students according to the proposed priority to receive travel grants.

## PUBLICATION OF A THEMED PCCP ISSUE

## "Functional Materials"

PCCP will publish the official themed issue of the Bunsentagung entitled "Functional Materials".

We invite you to submit a high quality manuscript of original, unpublished research on this topic.

Deadline for manuscript submission:  
18 January 2019

All submissions will be subject to a rigorous peer review to meet the high standards of PCCP. When submitting your article, please indicate that it is intended for inclusion in the themed issue. Further details about PCCP can be found at [www.rsc.org/pccp](http://www.rsc.org/pccp). Please contact the PCCP Editorial Office (pccp-rsc@rsc.org), if you have further questions.

We hope you will contribute to this exciting issue. High-quality submissions of original work in other areas of physical chemistry, chemical physics and biophysical chemistry are of course always welcome for publication in regular issues of PCCP.

## EXHIBITION &amp; SPONSORING

Companies are invited to participate at the accompanying exhibition. The exhibition presents a perfect opportunity to inform participants about your products and services as well as for networking. Furthermore various sponsoring opportunities are available to support the Bunsentagung and we are open to discuss individual sponsoring packages.

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## MEETINGS OF THE GERMAN BUNSEN SOCIETY

## WEDNESDAY, 29 MAY 2019

17:00 Board Meeting of the German Bunsen Society  
(Vorstandssitzung)

## THURSDAY, 30 MAY 2019

09:00 Meeting of the Standing Committee of the German Bunsen Society (Ständiger Ausschuss)

**Participants of the above meetings will receive separate invitations.**

15:00 General Assembly of the German Bunsen Society for Physical Chemistry (reserved for DBG members)

REGISTRATION FEES<sup>1)</sup>

Personal Members of the German Bunsen Society	260.- €
Non-Members	335.- €
Students (proof of status required)	50.- €
Students Non-Member (proof of status required)	100.- €
Accompanying Persons	65.- €

<sup>1)</sup> No VAT requested according to § 4.22 UStG

Late registrations after 28 February 2019 are subject to an additional fee of 25.- €/person (except accompanying persons).



[www.bunsentagung.de](http://www.bunsentagung.de)

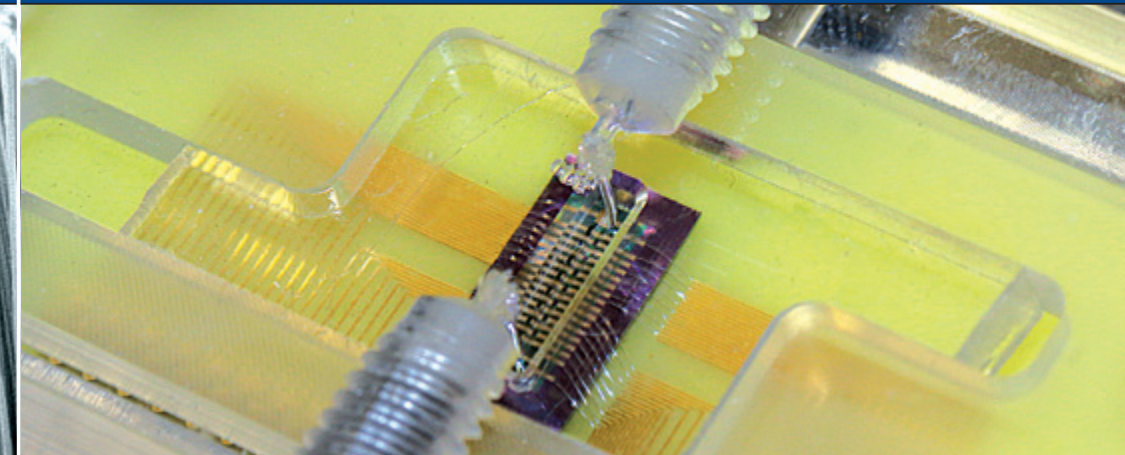
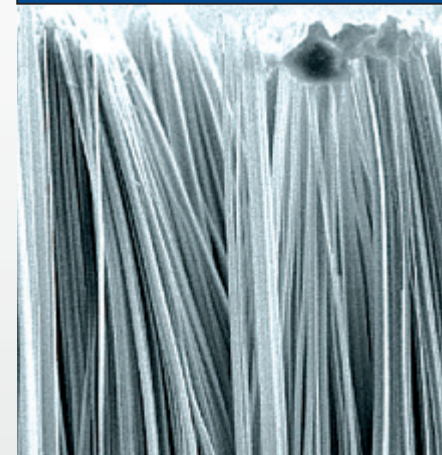


# BUNSENTAGUNG 2019

## 118<sup>th</sup> General Assembly of the German Bunsen Society for Physical Chemistry

Featuring an industrial symposium with accompanying exhibition and yPC-forum

30 May – 1 June 2019 · Jena · Germany



FIRST ANNOUNCEMENT AND  
CALL FOR PRESENTATIONS

# Functional Materials

[www.bunsentagung.de](http://www.bunsentagung.de)

**ATTENTION!**  
Deadline for submission of abstracts  
is 7 December 2018





The German Bunsen Society of Physical Chemistry (DBG) is honored  
to invite on the occasion of the

# 118<sup>th</sup> General Assembly of the German Bunsen Society for Physical Chemistry

from 30 May – 1 June 2019 at Friedrich-Schiller-Universität Jena

Main Topic: **Functional Materials**

Public Opening Lecture: **Using Molecular Heterojunctions for Chemistry: About Photosynthesis, new Electrochemistry, and Artificial Ion Pumps**

Industrial Symposium: **Functional Materials in Industry and Industrial Exhibition**

On the occasion of the 125<sup>th</sup> anniversary of the Bunsen Society for Physical Chemistry a warm welcome at the Bunsentagung in Jena. The city of Jena is a medium-sized city of around 105,000 inhabitants with internationally recognized research institutes and a strong optical industry. Science in Jena is lively and interdisciplinary and looks back on a long history of interdisciplinary cooperation between Carl Zeiss, Ernst Abbe and Otto Schott - the founders of the City of Light.

The focus of the 118<sup>th</sup> Bunsentagung is on functional materials. Functional materials form the core of many modern technologies, e.g., energy conversion and storage, heterogeneous catalysis, drug delivery, implants, electronic and photonic devices. The challenges in the design and characterization of modern materials are diverse and require joint research efforts across various scientific disciplines. The most challenging tasks range from elucidation of the growth mechanisms of materials, the development of novel experimental characterization tools and theoretical methods for atomistic description of materials and material properties to tailoring the interaction of materials with their environment as well as device engineering. Due to this interdisciplinary approach, Physical Chemistry is a key scientific discipline for successful achievement of these tasks. With this background, the conference in Jena is intending to provide an insight into recent advances in such research areas like (I) materials for energy conversion and storage, (II) materials at the bio-interface, (III) 2D-materials, surfaces and interfaces for implementations in nanotechnology. We plan to put particular emphasis on tailored materials,

materials' characterization and modelling for implementations in photo- and electrocatalysis, solar and fuel cells, batteries and supercapacitors; materials for implants, drug delivery, tissue engineering and biosensors; on recent progress and challenges associated with the integration of novel materials into devices and the development of novel experimental characterization tools and theoretical methods for atomistic description of functional materials. A number of invited internationally recognized scientists representing highly interdisciplinary research fields across physics, chemistry, materials science and engineering will highlight these topics during the conference in Jena. Moreover, we expect a significant amount of contributed talks and posters dedicated to these vibrant scientific areas.

The 118<sup>th</sup> Bunsentagung takes place together with the biannual meeting of the Division of Physical Chemistry of EuChemS, which recognizes and celebrates the internationality of Physical Chemistry. The Bunsentagung 2019 will provide an excellent platform for fruitful research exchange with a focus on the application of physical and theoretical chemistry in interdisciplinary research and industrial innovations. Finally, the meeting will provide a platform for all generations of physical chemists from all throughout Europe to mix and share ideas and perspectives both on science and education and discuss avenues to tackle the scientific and societal challenges ahead of Physical Chemistry.

We are looking forward to welcoming you in Jena. Benjamin Dietzek, Andrey Turchanin and Jürgen Popp for the local organizing committee

## LECTURES

### OPENING LECTURE Thursday 30 May 2019

**Using Molecular Heterojunctions for Chemistry: About Photosynthesis, new Electrochemistry, and Artificial Ion Pumps**  
Markus Antonietti, Max Planck Institute of Colloids and Interfaces

### PLENARY LECTURES Friday 31 May 2019 – Saturday 1 June 2019

**Engineered Living Materials**  
Aránzazu del Campo Bécáres, Leibniz Institute for New Materials

**Theoretical Spectroscopy of Hybrid Materials: An Exciting Loop between Challenges and Successes**  
Claudia Draxl, Humboldt Universität zu Berlin

**Physical Chemistry and Applications of Mixed-Dimensional van der Waals Heterostructures**  
Mark C. Hersam, Northwestern University

**Atom-by-Atom Functionalisation of Low-Dimensional Materials**  
Ute Kaiser, Ulm University

### INVITED SPEAKERS Friday 31 May 2019 – Saturday 1 June 2019

Curtis P. Berlinguette, University of British Columbia

Andreas Fery, Leibniz Institute of Polymer Research Dresden

Duncan Graham, University of Strathclyde

Marcus Sauer, Julius-Maximilians-Universität Würzburg

Luisa Torsi, Università degli studi di Bari Aldo Moro

## PROGRAMME COMMITTEE

<b>Philipp Adelhelm</b>	Jena	<b>Katharina Krischer</b>	München
<b>Ellen Backus</b>	Mainz	<b>Ralf Ludwig</b>	Rostock
<b>Klaus Boldt</b>	Konstanz	<b>Manfred Martin</b>	Aachen
<b>Bernhard Dick</b>	Regensburg	<b>Matthias Olzmann</b>	Karlsruhe
<b>Benjamin Dietzek</b>	Jena	<b>Joachim Paier</b>	Berlin
<b>Andreas Fery</b>	Dresden	<b>Jürgen Popp</b>	Jena
<b>Ingo Fischer</b>	Würzburg	<b>Felix H. Schacher</b>	Jena
<b>Frank Gießelmann</b>	Stuttgart	<b>Melanie Schnell</b>	Hamburg
<b>Leticia González</b>	Wien	<b>Andrey Turchanin</b>	Jena
<b>Stefanie Gräfe</b>	Jena	<b>Peter Vöhringer</b>	Bonn
<b>Jürgen Janek</b>	Gießen	<b>Karl-Michael Weitzel</b>	Marburg
<b>Wolfgang Kautek</b>	Wien	<b>Roland Winter</b>	Dortmund
<b>Olaf Conrad</b>	Jena		

## SUBMISSION OF ABSTRACTS

We invite you to submit your contributions either to the main topic or to any other topical areas. Submission of contributions covering fundamental or applied, experimental or theoretical work (and combinations) are equally appreciated.

### Main Topics

- Materials for Energy Conversion and Storage
- Materials at the Bio-Interface
- 2D-Materials, Nanomaterials, Surfaces and Interfaces

### Other Topics of Physical Chemistry

- Biophysical Chemistry and Biophotonics
- Catalysis
- Electrochemistry
- Reaction Kinetics and Dynamics
- Thermodynamics
- Theory and Data Science
- Transport and Storage
- Spectroscopy

Submissions for the main topic should be in English. Submissions to the other topics might be in English or German. **The authors are expected to present their work in the language of the submitted abstract.**

Abstract submission is accessible via **www.bunsentagung.de** from **1 November 2018** onwards.

Deadline for abstract submission: **7 December 2018**  
Abstracts submitted after this deadline will not be reviewed.

Authors are requested to submit an abstract (max. 1 page, 100 - 200 words) electronically as pdf file (.pdf) via the abstract submission tool at **www.bunsentagung.de**. A template is available at the website.

The abstracts of all accepted contributions will be published in a book of abstracts.

It is the sole responsibility of the author to submit the correct and complete information on co-authors and their institutional affiliations on the online form when submitting the abstract. This information will be published in the conference programme and the electronic book of abstracts.

The Programme Committee will review the submitted abstracts. Abstracts can be accepted for oral or poster presentation. Abstracts might be rejected if their content is not within the scope of the conference or of insufficient scientific quality. The Programme Committee might relocate contributions to other areas, if considered to be more relevant. Authors will be informed in February 2019 about the acceptance of their submissions.

**Requirements for successful submission of abstracts:**

- Abstract prepared in the proper format
- Name and contact details of presenting author
- Name and institutional details of all authors
- Title of contribution
- Preferred area and preferred format of presentation (oral or poster)

**Please follow the guidelines below when writing your abstract:**

- Title: Arial 14 pt, bold
- Author(s): Arial 12 pt (first name and surname), presenting author underlined
- Institution / Location: Arial 12 pt
- Main Text: Arial 12 pt, line separation: 1.5
- Literature: Arial 12 pt
- Page Format: A4, margins: 3.0 cm above/below and 2.5 cm left/right
- File Size: Max 300 kB
- No header or footer, no page numbers

The scientific programme will be available at **www.bunsentagung.de** in **April 2019**.

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