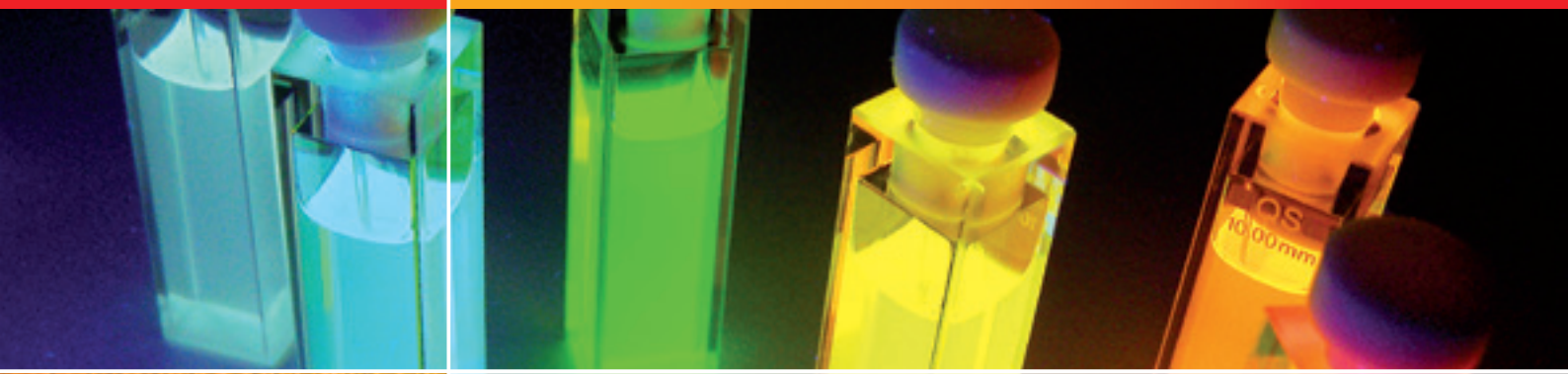
29 – 31 May 2014 · Hamburg · Germany



BUNSENTAGUNG 2014

113th General Assembly of the German Bunsen Society for Physical Chemistry

Featuring an industrial symposium with accompanying exhibition and Karriereforum

PROGRAMME

Physical Chemistry on the Nanometer Scale

Universität Hamburg
DER FORSCHUNG | DER LEHRE | DER BILDUNG

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CONTENTS

INVITATION	55
COMMITTEES / ORGANISATION	56
EXHIBITION & SPONSORING / MEETINGS OF THE GERMAN BUNSEN SOCIETY	57
PROGRAMME AT A GLANCE	58 – 59
OPENING LECTURE / PLENARY LECTURES / FULL LECTURES	60
LECTURE PROGRAMME	61 – 73
Thursday, 29 May 2014	61
Friday, 30 May 2014	62 – 67
Saturday, 31 May 2014	68 – 73
POSTER PROGRAMME	74 – 89
SOCIAL PROGRAMME	90 – 91
GENERAL INFORMATION	92 – 96
Registration fees	92
Registration	92
Payment	92
Cancellation	92
Accommodation	92
Venue	93
How to reach the venue	93
Opening hours on-site conference office	93
Contacts	93
Conference languages	93
Poster session and poster awards	94
Karriereforum	95
Child care	95
Internet service	95
VENUE OVERVIEW	96
NOTES	97 – 99

MAIN TOPIC:

"Physical Chemistry on the Nanometer Scale"

The main topic of the Bunsentagung 2014 focuses on cutting-edge research in the field of physico-chemical aspects of nanoscience and nanotechnology based on bottom-up approaches. Nanoscience has become one of the largest interdisciplinary fields of research during the last two decades and it is worldwide recognized that it will play a key role in 21st century technology.

The chemistry-based bottom-up nanoscience techniques evolved from colloid chemistry, a key topic in physical chemistry since the late 19th century. The major difference to classic colloid chemistry is the molecular control with which synthetic nanomaterials can be built up and investigated. This will be discussed in sessions dealing with the tailor-made synthesis of high quality nanostructured materials, the investigation of nucleation and the growth and assembly of nano-objects into complex hybride structures with advanced functionality. A strong boost in nanoscience came from the development of structural and chemical analysis techniques with atomic resolution and from the possibility to perform spectroscopic investigations and transport measurements on single nano-objects. Therefore, special sessions are devoted to topics such as the structural and electronic characterization, spectroscopy on the nanoscale, and the investigation of transport properties. Strongly correlated to these topics is the development of theoretical methods for the description of such large systems with high accuracy. Furthermore, the application of nanoparticles in the life sciences, including the biological response to nanoparticles, the visualization of biological processes using specifically functionalized nanoparticles in combination with modern molecular imaging techniques will be part of the scientific programme. Besides fascinating basic science, the conference will cover aspects of applications that arose in nanotechnology including high-tech materials with improved mechanical properties, novel materials for lightning, display technologies, catalysis, energy conversion and storage, as well as contrast agents and drug delivery systems for diagnosis and therapy.

Overall, nanoscience is a true transdiciplinary topic covering physics, chemistry, biology, medicine, and engineering. Since physical chemistry plays a central role in all these areas, the Bunsentagung 2014 will highlight these aspects as its main topic. Internationally outstanding scientists will give the opening and plenary lectures and progress reports on the various aspects of nanoscience and technology. Almost all of these topics will intentionally overlap with the more generic topical areas of the Bunsentagung 2014 to foster interdisciplinary discussions and collaborations on a leading edge level of expertise.

PROGRAMME COMMITTEE

Annika Bande	Heidelberg University/D
Frank Gießelmann	Universität Stuttgart/D
Andreas Janshoff	Göttingen University/D
Wolfgang Kautek	University of Vienna/A
Jochen Küpper	Center for Free-Electron Laser Science (CFEL), Hamburg/D
Klaus Meerholz	University of Cologne/D
Alf Mews	Universität Hamburg/D
Christian Ochsenfeld	LMU München/D
Marcell Peuckert	Infraserv GmbH & Co. Höchst KG, Frankfurt am Main/D
Joachim Sauer	Humboldt-Universität zu Berlin/D
Rolf Schäfer	TU Darmstadt/D
Horst Weller	Universität Hamburg/D
Hans Jacob Wörner	ETH Zürich/CH

SCIENTIFIC ORGANISATION

Andreas Janshoff	Göttingen University/D
Jochen Küpper	Center for Free-Electron Laser Science (CFEL), Hamburg/D
Klaus Meerholz	University of Cologne/D
Alf Mews	Universität Hamburg/D
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LOCAL ORGANISATION

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Michael Froeba	Universität Hamburg/D
Nils Huse	Center for Free-Electron Laser Science (CFEL), Hamburg/D
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Jochen Küpper	Center for Free-Electron Laser Science (CFEL), Hamburg/D
Tim Laarmann	DESY, Hamburg/D
Alf Mews	Universität Hamburg/D
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Patrick Theato	Universität Hamburg/D
Oriol Vendrell	DESY, Hamburg/D
Tobias Vossmeyer	Universität Hamburg/D
Horst Weller	Universität Hamburg/D

HOST

Deutsche Bunsen-Gesellschaft für physikalische Chemie e.V.
German Bunsen Society for Physical Chemistry
Theodor-Heuss-Allee 25
60486 Frankfurt am Main/D
Phone: +49 (0)69 7564-621
Fax: +49 (0)69 7564-622
E-Mail: woehler@bunsen.de
Internet: www.bunsen.de

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EXHIBITION & 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. There are also various sponsoring opportunities available.

If you are interested in either exhibiting or sponsoring, please contact the local organisers directly (Mrs Beate Kreutzer, kreutzer@chemie.uni-hamburg.de).

LIST OF EXHIBITORS (as of February 10, 2014)

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- **Centrum für Angewandte Nanotechnologie (CAN) GmbH** — Hamburg/D
- **EVONIK Industries AG** — Essen/D
- **FCI Fonds der Chemischen Industrie** — Frankfurt am Main/D

You can also support the conference via a direct donation to the German Bunsen Society. Please contact Mrs Erika Wöhler (woehler@bunsen.de) for additional information.

MEETINGS OF THE GERMAN BUNSEN SOCIETY

Thursday, 29 May 2014	
09:00 – 11:00	**Vorstandssitzung*** (nur auf Einladung)
09:00 – 11:00	**Sitzung der Studienkommission*** (nur auf Einladung)
11:00 – 14:00	**Sitzung des Ständigen Ausschusses*** (nur auf Einladung)
11:30 – 14:30	**Karriereforum*** Begleiter auf dem Karriereweg: Mentoren, Chefs, Mitarbeiter und Kollegen in der Geber- und Nehmerrolle
13:00 – 14:00	**Sitzung der Themenkommission*** (nur auf Einladung)
15:00 – 16:15	**Ordentliche Mitgliederversammlung*** (nur für Mitglieder der DBG)

* in German only

Thursday, 29 May 2014

11:30	**Karriereforum**	Dep. of Physical Chemistry, Room 160/161	(in German only)
15:00	**Ordentliche Mitgliederversammlung** (nur für Mitglieder der DBG)	Dep. of Physical Chemistry, Room 160/161	(in German only)
	Chemiehörsaal A		
16:30	**OPENING CEREMONY**		
18:00	**OPENING LECTURE** **Nanoparticles as smart drug delivery ferries in nanomedical applications** C. Bräuchle, University of Munich/D		
19:30	**Welcome Reception**		

Friday, 30 May 2014

	Chemiehörsaal A					
Chair:	*H. Weller*					
08:30 - 09:15	**PLENARY LECTURE:** M. Bawendi					
	Chemiehörsaal A	**Chemiehörsaal B**	**Chemiehörsaal C**	**Chemiehörsaal D**	**Chemiehörsaal TMC**	**Pharmazie**
	Physical Chemistry on the Nanometer Scale (Main Topic)	**Physical Chemistry on the Nanometer Scale** (Main Topic)	**Molecular Structure**	**Theoretical Methods**	**Industrial Applications**	**Biophysical Chemistry**
Chair:	*H. Weller*	*C. Klinke*	*M. Schmitt*	*A. Bande*	*Y. Joseph*	*T. Laarmann*
09:20 - 09:40	FULL LECTURE L.M. Liz-Marzán	T. Hertel	K.M. Lange	J.D. Spiegel	S. Fischer	L. Treuel
09:40 - 10:00		A. Turchanin	D. Horke	F. Hoffgaard	L. Diestel	S.C. Salmen
10:00 - 10:20	J. Polte	R.K. Capek	FULL LECTURE G. Niedner-Schatteburg	J. Vargas	A. Becker	T. Werzer
10:20 - 10:40	A. Köhntopp	M. Grüßer		T. Lankau	K. Poulsen	V. Conti Nibali
10:40 - 11:00	COFFEE BREAK					
	Physical Chemistry on the Nanometer Scale (Main Topic)	**Physical Chemistry on the Nanometer Scale** (Main Topic)	**Molecular Structure**	**Experimental Methods**	**Industrial Applications**	**Biophysical Chemistry**
Chair:	*A. Mews*	*D. Schooss*	*D. Horke*	*S. Reich*	*M. Peuckert*	*C. Schwieger*
11:00 - 11:20	G.M. Stachowski	P. Dolbundalchok	M. Schmitt	A. Hoell	FULL LECTURE R. Strey	S. Büning
11:20 - 11:40	J. Kolny-Olesiak	L. Moskaleva	D. Wachsmuth	J.R. Stellhorn		M. Heyden
11:40 - 12:00	K. Boldt	Y. Nosenko	T. Betz	M. Khan	D. Riebe	F. Müh
12:00 - 12:20	J.S. Niehaus	N.X. Truong	E. Milogyadov	A. Britz	T. Karcher	P. Piredda
12:20 - 13:40	LUNCH BREAK					
	Chemiehörsaal A					
Chair:	*J. Sauer*					
13:40 - 14:25	**PLENARY LECTURE:** H.-J. Freund					
	Chemiehörsaal A	**Chemiehörsaal B**	**Chemiehörsaal C**	**Chemiehörsaal D**	**Chemiehörsaal TMC**	**Pharmazie**
	Physical Chemistry on the Nanometer Scale (Main Topic)	**Physical Chemistry on the Nanometer Scale** (Main Topic)	**Chemical Dynamics**	**Experimental Methods**	**Industrial Applications**	**Biophysical Chemistry**
Chair:	*T. Kipp*	*M. Ballauff*	*F. Temps*	*M. Schnell*	*H. Egger*	*A. Janshoff*
14:30 - 14:50	M. Bäumer	O. Karthaus	M. Vester	FULL LECTURE S. Reich	Wijayawardhana	S. Ebbinghaus
14:50 - 15:10	S.M. Lang	M. Laupheimer	P.M. Kraus		tba	C. Rosin
15:10 - 15:30	M. Lohrenscheit	S. Wuttke	S. Trippel	R. Seher	tba	FULL LECTURE R. Winter
15:30 - 15:50	D. Langsdorf	I. Bald	G. Seyfang	M. Borgwardt	tba	
15:50 - 16:10	COFFEE BREAK					
	Physical Chemistry on the Nanometer Scale (Main Topic)	**Physical Chemistry on the Nanometer Scale** (Main Topic)	**Chemical Dynamics**	**Experimental Methods**	**Interfaces**	**Biophysical Chemistry**
Chair:	*L.M. Liz-Marzán*	*E. Rühl*	*J. Küpper*	*R. Schäfer*	*S. Schauermann*	*R. Winter*
16:10 - 16:30	FULL LECTURE U. Banin	B. Rathke	K.R. Siefermann	P. Oulevey	R. Hausbrand	A. Hädicke
16:30 - 16:50		K. Yamamoto	T. Assefa	J. Riedel	F. Leroy	T. Kottke
16:50 - 17:10	H. Borchert	M. König	I. Unger	M. Schnell	FULL LECTURE H. Schönherr	Ch.R. Jacob
17:10 - 17:30	M. Scheele	H. Marbach	N. Engel	K. Atak		N.F.A. van der Vegt
17:30 - 19:00	**Poster Session** (even numbers)					
19:00 - 20:30	**Poster Session** (odd numbers)					

Saturday, 31 May 2014

	Chemiehörsaal A					
Chair:	*M. Quack*					
08:30 - 09:15	**PLENARY LECTURE:** C. Lieber					
	Chemiehörsaal A	Chemiehörsaal B	Chemiehörsaal C	Chemiehörsaal D	Chemiehörsaal TMC	Pharmazie
	Physical Chemistry on the Nanometer Scale (Main Topic)	**Hot Topics**	**Chemical Dynamics**	**Energy Storage and Conversion**	**Interfaces**	
Chair:	*A. Eychmüller*	*E.F. Aziz*	*M. Quack*	*B. Kaiser*	*K. Al-Shamery*	
09:20 - 09:40	FULL LECTURE M.A. Brown	L. Horny	P. Nuernberger	S. Indris	M. Schmitt	
09:40 - 10:00		Y. Chang	C. Neumann	C. Zhu	J. Kleber	
10:00 - 10:20	A. Fielicke	T. Kipp	B. Wezisla	F. Klein	M. Laurin	
10:20 - 10:40	D. Schooss	C. Klinke	S. Tschierlei	K. Bachtin	C. Papp	
10:40 - 11:00	COFFEE BREAK					
	Physical Chemistry on the Nanometer Scale (Main Topic)	**Physical Chemistry on the Nanometer Scale** (Main Topic)	**Chemical Dynamics**	**Energy Storage and Conversion**	**Catalysis**	**Electrochemistry**
Chair:	*W. Kautek*	*A. Stierle*	*G. Friedrichs*	*S. Indris*	*J. Sauer*	*J. Fleig*
11:00 - 11:20	FULL LECTURE M. Ballauff	J. Nordmann	D. Imanbaew	M. Höltig	M. Eichelbaum	A. Hein
11:20 - 11:40		D. Klier	J. Giegerich	B. Kaiser	M. Kauer	S. Huber
11:40 - 12:00	P. Patoka	B. Kempken	P. Hemberger	K.R. Bickel	FULL LECTURE J. Wintterlin	K.S. Exner
12:00 - 12:20	H. Schlicke	N.C. Bigall	S. Albert	A. Feldhoff		A.K. Engstfeld
12:20 - 13:40	LUNCH BREAK (12:30 - 13:40 Mitgliederversammlung AG Bunsen-Karriereforum)					
	Chemiehörsaal A					
Chair:	*A. Mews*					
13:40 - 14:25	**PLENARY LECTURE:** H.N. Chapman					
	Chemiehörsaal A	Chemiehörsaal B	Chemiehörsaal C	Chemiehörsaal D	Chemiehörsaal TMC	Pharmazie
	Physical Chemistry on the Nanometer Scale (Main Topic)	**Physical Chemistry on the Nanometer Scale** (Main Topic)	**Polymers and Soft Matter**	**DBG Awards**	**Catalysis**	**Electrochemistry**
Chair:	*tba*	*A. Fielicke*	*T. Sottmann*	*M. Peuckert*	*J. Wintterlin*	*W. Kautek*
14:30 - 14:50	A.R. Gheisi	M. Buchholz	S. Seiffert	**Paul-Bunge-Prize**	A. Zychma	FULL LECTURE O. Schneider
14:50 - 15:10	E.W. Leib	S. Brimaud	F. Plamper		J. Paier	
15:10 - 15:30	A. Petrov	N. Sobel	S. Eisenhaber	**Ewald-Wicke-Prize**	J. Strunk	V. Mugnaini
15:30 - 15:50	C. Guhrenz	A. Littig	A. Unverfehrt	**Nernst-Haber-Bodenstein-Prize**	C. Wöckel	M. Weinmann
15:50 - 16:10	S. Wölper	G. Gregori	A. Nack		R. Marschall	A. Ruff
16:10 - 17:00	**Poster Awards and Closing Ceremony**					
19:00	**Conference Dinner** (see page 91)					

OPENING LECTURE

Thursday, 29 May 2014

18:00 – 18:45 **Nanoparticles as smart drug delivery ferries in nanomedical applications**
C. Bräuchle, Ludwig-Maximilians-Universität München/D

PLENARY LECTURES

Friday, 30 May 2014

8:30 – 9:15 **Semiconductor nanocrystals as optical materials: Spectroscopy and applications in light emission, photovoltaics, and biology**
M. Bawendi, Massachusetts Institute of Technology, Cambridge, MA/USA

13:40 – 14:25 **A fresh look at an old nano-technology: Catalysis**
H.-J. Freund, Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin/D

Saturday, 31 May 2014

8:30 – 9:15 **Nanowires: a platform for nanoscience and technology**
C. Lieber, Harvard University, Cambridge/USA

13:40 – 14:25 **Macromolecular structure determination with X-ray laser pulses**
H. Chapman, Center for Free-Electron Laser Science, Hamburg/D

FULL LECTURES

Friday, 30 May 2014

9:20 – 10:00 **Anisotropic and Janus metal nanoparticles**
L.M. Liz-Marzán, Universidade de Vigo/E

10:00 – 10:40 **Advancing the IR spectroscopy of clusters and complexes in the gas phase**
G. Niedner-Schatteburg, TU Kaiserslautern/D

11:00 – 11:40 **How to make nanofoams**
R. Strey, University of Cologne/D

14:30 – 15:10 **Functional surfactants for excitation-energy transfer in carbon nanotube-perylene complexes**
S. Reich, Freie Universität Berlin/D

15:10 – 15:50 **Exploring the conformational space of biomolecular systems using pressure perturbation**
R. Winter, TU Dortmund/D

16:10 – 16:50 **Dimensionality matters: dimensionality effects on optoelctronic behavior of semiconductor nanocrystals**
U. Banin, The Hebrew University of Jerusalem/IL

16:50 – 17:30 **Tailor-made soft interfaces and polymer-based architectures: from synthesis, assembly & fabrication to characterization and localized analys**
H. Schönherr, University of Siegen/D

Saturday, 31 May 2014

09:20 – 10:00 **Photoelectron spectroscopy at the liquid-nanoparticle interface**
M.A. Brown, ETH Zurich/CH

11:00 – 11:40 **Kinetic study of catalytic reduction of 4-nitrophenol by Au nanoparticles immobilized in spherical polyelectrolyte brushes**
M. Ballauff, Helmholtz-Zentrum Berlin für Materialien und Energie (HZB)/D

11:40 – 12:20 **The active state of an operating catalyst – new insight into the ethylene epoxidation over silver**
J. Wintterlin, Ludwig-Maximilians-Universität München/D

14:30 – 15:10 **Fundamental studies of sonoelectrochemical metal deposition**
O. Schneider, TU München/D

Thursday, 29 May 2014

	Dep. of Physical Chemistry, Room 160/161
11:30 – 14:30	**KARRIEREFORUM** (see page 95, in German only)
15:00 – 16:15	**ORDENTLICHE MITGLIEDERVERSAMMLUNG** (nur für Mitglieder der DBG, in German only)
	Raum Chemiehörsaal A
	Chair: M. Peuckert
16:30 – 18:00	OPENING CEREMONY
18:00 – 18:45	OPENING LECTURE **Nanoparticles as smart drug delivery ferries in nanomedical applications** C. Bräuchle, Ludwig-Maximilians-Universität München/D
19:30 – 22:00	WELCOME RECEPTION

Friday, 30 May 2014 — Morning

	Chemiehörsaal A	Chemiehörsaal B
	Chair: H. Weller	
8:30	**PLENARY LECTURE** **Semiconductor nanocrystals as optical materials: Spectroscopy and applications in light emission, photovoltaics, and biology** M. Bawendi, Massachusetts Institute of Technology, Cambridge, MA/USA	
	Chemiehörsaal A	**Chemiehörsaal B**
	Physical chemistry on the nanometer scale (main topic)	**Physical chemistry on the nanometer scale** (main topic)
	Chair: H. Weller	*Chair: C. Klinke*
9:20	**FULL LECTURE** **Anisotropic and Janus metal nanoparticles** D. Rodríguez-Fernández, A. Sánchez-Iglesias, CIC biomaGUNE, San Sebastian/E; M. Grzelczak, biomaGUNE, San Sebastian/E; L.M. Liz-Marzán, biomaGUNE, San Sebastian/E and Ikerbasque, Bilbao/E	**Ensemble and single particle spectroelectrochemistry of semiconducting single-wall carbon nanotubes** N. Rühl, H. Hartleb, T. Hertel, Universität Würzburg/D
9:40		**All-carbon vertical van der Waals heterostructures for non-destructive functionalization of graphene devices** M. Woszczyna, Physikalisch-Technische Bundesanstalt, Braunschweig/D; A. Winter, Universität Bielefeld/D; M. Grothe, Physikalisch-Technische Bundesanstalt, Braunschweig/D; A. Willunat, Universität Bielefeld/D; S. Wundrack, R. Stosch, T. Weimann, F. Ahlers, Physikalisch-Technische Bundesanstalt, Braunschweig/D; A. Turchanin, Universität Bielefeld/D
10:00	**Understanding the formation of metal colloids** M. Wuithschick, F. Kettemann, S. Witte, J. Polte, Humboldt-Universität zu Berlin/D	**Influence of the organic chain length of ligands in hot-injection synthesis of colloidal quantum dots** R.K. Capek, Israel Institute of Technology, Haifa/IL; K. De Nolf, Universiteit Gent/B; Y. Jang, Israel Institute of Technology, Haifa/IL; S. Abé, Universiteit Gent/B; E. Lifshitz, Israel Institue of Technology, Haifa/IL; Z. Hens, Universiteit Gent/B
10:20	**Photophysical and photochemical properties of azobenzenes on gold nanoparticles** A. Köhntopp, F. Temps, Universität Kiel/D	**Cathodoluminescence of sharp Au- and Ag-tips in the vicinity of a Au-film** M. Grüßer, X. Ma, R. Schuster, Karlsruher Institut für Technologie/D
10:40	COFFEE BREAK	
	Physical chemistry on the nanometer scale (main topic)	**Physical chemistry on the nanometer scale** (main topic)
	Chair: A. Mews	*Chair: D. Schooss*
11:00	**Highly luminescent indium zinc phosphide nanoparticles** G.M. Stachowski, S.G. Hickey, A. Eychmüller, TU Dresden/D	**Electron dynamics in realistic quantum dots** P. Dolbundalchok, A. Bande, Universität Heidelberg/D
11:20	**Synthesis and shape control of copper-indium-zinc-sulfide nanocrystals** B. Kempken, J. Li, J. Parisi, J. Kolny-Olesiak, Universität Oldenburg/D	**Types of adsorbed oxygen on the kinked Au(321) surface with Ag impurities: a first-principles investigation** L. Moskaleva, F. Strigunov, M. Bäumer, Universität Bremen/D
11:40	**Engineering of the electronic structure of core/shell quantum dots by *in-situ* alloying** K. Boldt, N. Kirkwood, G.A. Beane, P. Mulvaney, University of Melbourne, Parkville/AUS	**Photodynamics and structure of a 1-methylthymine self-pair mediated by a silver trimer** Y. Nosenko, C. Riehn, G. Niedner-Schatteburg, TU Kaiserslautern/D; W. Klopper, Karlsruher Institut für Technologie/D
12:00	**Nanoparticle production and analytics for industrial applications** J.S. Niehaus, D. Ness, K. Poulsen, T. Jochum, C. Ott, S. Becker, Center for Applied Nanotechnology (CAN) GmbH, Hamburg/D; H. Weller, Universität Hamburg/D	**Infrared spectroscopy of doped silicon clusters** N.X. Truong, M. Savoca, A. Fielicke, O. Dopfer, TU Berlin/D
12:20	LUNCH BREAK	

Morning

Friday, 30 May 2014

Chemiehörsaal A		
Chair: H. Weller		
PLENARY LECTURE **Semiconductor nanocrystals as optical materials: Spectroscopy and applications in light emission, photovoltaics, and biology** M. Bawendi, Massachusetts Institute of Technology, Cambridge, MA/USA		8:30
Chemiehörsaal C	**Chemiehörsaal D**	
Molecular structure	**Theoretical methods**	
Chair: M. Schmitt	*Chair: A. Bande*	
The hydrogen bond of water in mixtures with organic solvents and in aqueous ion solutions K.M. Lange, T. Petit, G. Conrad, K. Yamamoto, C. Schwanke, K. Hodeck, M. Dantz, T. Brandenburg, E. Suljoti, E.F. Aziz, Helmholtz-Zentrum Berlin/D	**Energy transfer processes in BODIPY-based donor-acceptor-systems** J.D. Spiegel, M. Kleinschmidt, Universität Düsseldorf/D; J. Tatchen, Universidad de los Andes, Bogotá/CO; C.M. Marian, Universität Düsseldorf/D	9:20
Spatially separating *para* and *ortho* water – fully quantum state selected samples of gas-phase molecules D. Horke, Y.P. Chang, J. Küpper, Deutsches Elektronen Synchrotron (DESY), Hamburg/D	**3D RISM solvation theory with polarizable force fields** F. Hoffgaard, J. Heil, S.M. Kast, TU Dortmund/D	9:40
FULL LECTURE **Advancing the IR spectroscopy of clusters and complexes in the gas phase** M. Gaffga, J. Hewer, J. Lang, F. Menges, J. Mohrbach, Y. Nosenko, C. Riehn, G. Niedner-Schatteburg, TU Kaiserslautern/D	**Electronic responses of long chains to electrostatic fields: Hartree-fock vs. density-functional theory – A model study** J. Vargas, M. Springborg, Universität des Saarlandes, Saarbrücken/D; B. Kirtman, University of California, Santa Barbara, CA/USA	10:00
	A constrained reduced-dimensionality search algorithm T. Lankau, C.H. Yu, National Tsing Hua University, Hsinchu/RC	10:20
COFFEE BREAK		10:40
Molecular structure	**Experimental methods**	
Chair: D. Horke	*Chair: S. Reich*	
Determination of excited state dipole moments from electronic stark measurements M. Schmitt, J. Rolf, M. Wilke, Universität Düsseldorf/D; W.L. Meerts, Radboud University, Nijmegen/NL	**Nanostructure analysis by anomalous small-angle X-ray scattering** A. Hoell, Helmholtz Zentrum Berlin/D	11:00
Conformational diversity of organic molecules studied with broadband IMPACT FT microwave spectroscopy D. Wachsmuth, J.-H. Borter, J.-U. Grabow, Universität Hannover/D; A. Lesarri, Universidad de Valladolid/E	**Determination of short- and intermediate-range structures in amorphous solids by anomalous X-ray scattering** J.R. Stellhorn, W.-C. Pilgrim, Universität Marburg/D; S. Hosokawa, Kumamoto University/J	11:20
Rotational spectrum of 4-aminobenzonitrile – Nuclear quadrupole coupling constants of two chemically distinct nitrogen atoms T. Betz, S. Zinn, MPI for the Structure and Dynamics of Matter and CUI and CFEL, Hamburg/D; J.B. Graneek, MPI for the Structure and Dynamics of Matter and CFEL, Hamburg/D; M. Schnell, MPI for the Structure and Dynamics of Matter and CUI and CFEL, Hamburg/D	**Insights into mechanism of water oxidation catalysis: A spectroscopic study with soft X-ray absorption and inelastic scattering** M. Khan, E. Suljoti, Helmholtz-Zentrum Berlin für Materialien und Energie/D; A. Singh, Monash University, Melbourne/AUS; X. Jie, Helmholtz-Zentrum Berlin für Materialien und Energie/D; T. Brandenburg, Freie Universität Berlin und Helmholtz-Zentrum Berlin für Materialien und Energie/D; S. Bonke, Monash University, Melbourne/AUS; K. Yamamoto, R. Golnak, Freie Universität Berlin und Helmholtz-Zentrum Berlin für Materialien und Energie/D; L. Spiccia, Monash University, Melbourne/AUS; E.F. Aziz, Freie Universität Berlin und Helmholtz-Zentrum Berlin für Materialien und Energie/D	11:40
Ultrahigh resolution measurements of infrared ro-vibrational transitions in NH_3: Absolute frequencies and quadrupole splittings P. Dietiker, E. Milogyadov, M. Quack, A. Schneider, G. Seyfang, ETH Zürich/CH	**Towards time-resolved X-ray spectroscopies of dilute solvated molecular media employing MHz optical laser pump-X-ray probe techniques** A. Britz, T. Assefa, European XFEL GmbH, Hamburg/D; M. Harder, Deutsches Elektronen-Synchrotron, Hamburg/D; W. Gawelda, A. Galler, P. Gessler, European XFEL GmbH, Hamburg/D; H. Yavas, Deutsches Elektronen-Synchrotron, Hamburg/D; Ch. Bressler, European XFEL GmbH, Hamburg/D	12:00
LUNCH BREAK		12:20

Friday, 30 May 2014 — Morning

	Chemiehörsaal A	
	Chair: H. Weller	
8:30	PLENARY LECTURE **Semiconductor nanocrystals as optical materials: Spectroscopy and applications in light emission, photovoltaics, and biology** M. Bawendi, Massachusetts Institute of Technology, Cambridge, MA/USA	
	Chemiehörsaal TMC	**Pharmazie**
	Industrial applications	**Biophysical chemistry**
	Chair: Y Joseph	*Chair: T. Laarmann*
9:20	**Photocatalytic hydrogen generation via ordinary iron carbonyl catalysts – an *in-situ* FTIR study** S. Fischer, E. Barsch, Universität Rostock/D; M. Karnahl, N. Rockstroh, Leibniz-Institut für Katalyse e.V., Rostock/D; S. Tschierlei, Universität Rostock/D; M. Beller, Leibniz-Institut für Katalyse e.V., Rostock/D; S. Lochbrunner, R. Ludwig, Universität Rostock/D	**Towards a molecular understanding of nanoparticle – protein interactions** L. Treuel, Fraunhofer ICT-IMM, Mainz/D und Universität Duisburg-Essen/D
9:40	**Mixed matrix membranes using nanographite, microporous and non-porous particles: Experimental results for the hydrogen purification** L. Diestel, A. Schulz, J. Caro, Universität Hannover/D	**Cancer detection using EpCAM-specific iron oxide nanoparticles** S.C. Salmen, Universität Hamburg/D; M. Heine, A. Schildt, N. Raabe, D. Bargheer, P. Nielsen, U. Schumacher, G. Adam, Universitätsklinikum Hamburg-Eppendorf/D; H. Weller, Universität Hamburg/D
10:00	**Photochemischer Einfluss auf Nukleation und Wachstum von Halbleiter-Nanokristallen in mikrofluidischen Reaktoren** A. Becker, K. Poulsen, D. Ness, T. Jochum, J. Niehaus, Centrum für Angewandte Nanotechnologie GmbH, Hamburg/D; H. Weller, Universität Hamburg/D	**Protein electrochemistry on gold in cosmotropic versus chaotropic electrolytes: *In-situ* FT-IRRAS and EQCM investigations** T. Werzer, Universität Wien/A; C. Zafiu, Universität für Bodenkultur, Wien/A; G. Trettenhahn, Universität Wien/A; U.B. Sleytr, Universität für Bodenkultur, Wien/A; W. Kautek, Universität Wien/A
10:20	**Produktion von NIR-emittierenden Halbleiter Nanopartikeln mittels kontinuierlicher Flusssynthese** K. Poulsen, J. Niehaus, D. Ness, Centrum für angewandte Nanotechnologie GmbH, Hamburg/D; H. Weller, Universität Hamburg/D	**Enzymatic degradation of macromolecules prolongs perturbation of solvation dynamics beyond reaction steady state** V. Conti Nibali, M. Heyden, J. Dielmann, Ruhr-Universität Bochum/D; M. Grossman, Ruhr-Universität Bochum/D und The Weizmann Institute of Science, Rehovot/IL; B. Born, D. Tworowski, I. Sagi, The Weizmann Institute of Science, Rehovot/IL; M. Havenith, Ruhr-Universität Bochum/D
10:40	COFFEE BREAK	
	Industrial applications	**Biophysical chemistry**
	Chair: M. Peuckert	*Chair: C. Schwieger*
11:00	FULL LECTURE **How to make nanofoams** A. Müller, R. Oberhoffer, L. Grassberger, R. Strey, University of Cologne/D	**Collapse and aggregation of the Huntingtin protein measured in living cells** S. Büning, S. Vachharajani, M. Gao, A. Sharma, D. Gnutt, S. Ebbinghaus, Ruhr-Universität Bochum/D
11:20		**Analyzing coupled solute/solvent dynamics via correlated vibrational motion in protein hydration shells** M. Heyden, Max-Planck-Institut für Kohlenforschung, Mülheim an der Ruhr/D
11:40	**Untersuchungen zur chemischen Ionisation bei Atmosphärendruck (APCI) durch Elektronen-, VUV- und Röntgenquellen in der IM-Spektrometrie** D. Riebe, A. Erler, T. Beitz, H.-G. Löhmannsröben, Universität Potsdam/D; M. Blaschke, A. Beil, T. Ludwig, Bruker Daltonik GmbH, Leipzig/D	**Bottom up theoretical approach to light-harvesting in photosystem II** F. Müh, D. Lindorfer, M. Plöckinger, H. Ortmayer, M. Schmidt am Busch, J. Adolphs, T. Renger, Universität Linz/A
12:00	**Möglichkeiten zum Demand Side Management bei der PVC Produktion** T. Karcher, Vinnolit GmbH & Co. KG, Ismaning/D	**Raman characterization of tumor progression in the HaCaT and MET *in vitro* skin cancer models** P. Piredda, University of Stuttgart/D; M. Berning, P. Boukamp, German Cancer Research Center, Heidelberg/D; A. Volkmer, University of Stuttgart/D
12:20	LUNCH BREAK	

Afternoon

Friday, 30 May 2014

Chemiehörsaal A		
Chair: J. Sauer		
PLENARY LECTURE **A fresh look at an old nano-technology: Catalysis** H.-J. Freund, Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin/D		13:40
Chemiehörsaal A	**Chemiehörsaal B**	
Physical chemistry on the nanometer scale (main topic)	**Physical chemistry on the nanometer scale** (main topic)	
Chair: T. Kipp	*Chair: M. Ballauff*	
Synthesis of bimetallic nanoparticles in diblock copolymer micells: A route to tailored heterogeneous catalysts W. Menezez, V. Zielasek, M. Bäumer, Universität Bremen/D	**Phase separated polymer microparticles as pollen biomimetics** O. Karthaus, S. Nakajima, S. Mori, Chitose Institute of Science and Technology/J; P. Polzin, Universität Kiel/D	14:30
Insights into revealing the origin of the high selectivity and catalytic activity of small Ru clusters in the methanation of CO S.M. Lang, T.M. Bernhardt, Universität Ulm/D	**Gelled bicontinuous microemulsions – a new type of orthogonal self-assembled systems –** M. Laupheimer, T. Sottmann, N. Preisig, C. Stubenrauch, Universität Stuttgart/D	14:50
Understanding the catalytic activity of gold supported by nanostructured ceria M. Lohrenscheit, C. Schilling, C. Hess, TU Darmstadt/D	**MOF nanoparticles coated by lipid bilayers and their uptake by cancer cells** S. Wuttke, S. Braig, T. Preiss, J. Sicklinger, C. Bellomo, J. Rädler, A. Vollmar, T. Bein, Universität München/D	15:10
Thickness dependent oxidation of Au films deposited on Ru(0001) D. Langsdorf, B. Herd, Y-B. He, H. Over, Universität Gießen/D	**Molecular processes on DNA origami nanostructures studied with atomic force microscopy and optical spectroscopy** I. Bald, R. Schürmann, BAM Bundesanstalt für Materialforschung und -prüfung, Berlin/D; J. Prinz, J. Rackwitz, L. Olejko, C. Heck, M. Cywinska, Universität Potsdam/D	15:30
COFFEE BREAK		15:50
Physical chemistry on the nanometer scale (main topic)	**Physical chemistry on the nanometer scale** (main topic)	
Chair: L.M. Liz-Marzan	*Chair: E. Rühl*	
FULL LECTURE **Dimensionality matters: dimensionality effects on optoelctronic behavior of semiconductor nanocrystals** U. Banin, The Hebrew University of Jerusalem/IL	**Microheterogeneities in ionic liquids – Kinetics and recent observations** C. Schön, W. Schröer, B. Rathke, Universität Bremen/D	16:10
	Uptake of dexamethasone in human skin investigated by soft-X-ray spectromicroscopy K. Yamamoto, Freie Universität Berlin/D; T. Ohigashi, Institute for Molecular Science, Okazaki/J; S. Ahlberg, F. Rancan, A. Vogt, U. Blume-Peytavi, P. Schrade, S. Bachmann, Charité Universitätsmedizin, Berlin/D; R. Haag, E. Fleige, S. Küchler, M. Schäfer-Korting, R. Flesch, Freie Universität Berlin/D; N. Kosugi, Institute for Molecular Science, Okazaki/J; E. Rühl, Freie Universität Berlin/D	16:30
Colloidal $CuInS_2$ nanocrystals for the application in quantum dot solar cells H. Borchert, D. Scheunemann, S. Wilken, C. Krause, R. Miranti, N. Radychev, J. Keller, I. Riedel, J. Kolny-Olesiak, J. Parisi, Universität Oldenburg/D	**STM studies on structure and dynamics of truly monodisperse, size-selected clusters on periodically wettable surfaces** M. König, F. Knoller, Y. Fukamori, F. Esch, U. Heiz, TU München, Garching/D	16:50
All-semiconducting nanoparticle ligand-hybrids: New prospects for quantum dot electronics M. Scheele, Universität Tübingen/D; D.A. Hanifi, D. Zherebetskyy, S.T. Chourou, S. Axnanda, Lawrence Berkeley National Laboratory, CA/USA; B. Rancatore, K. Thorkelsson, T. Xu, University of California Berkeley, CA/USA; Z. Liu, L.-W. Wang, Y. Liu, Lawrence Berkeley National Laboratory, CA/USA; A.P. Alivisatos, University of California Berkeley, CA/USA	**Entropic effects in conformational switching of molecules** S. Ditze, M. Stark, F. Buchner, A. Aichert, N. Jux, W. Hieringer, A. Görling, J. Hornegger, H.-P. Steinrück, H. Marbach, Universität Erlangen-Nürnberg/D	17:10
Postersession I (even numbers)		17:30
Postersession II (odd numbers)		19:00 – 20:30

Friday, 30 May 2014 — Afternoon

	Chemiehörsaal A	
	Chair: J. Sauer	
13:40	**PLENARY LECTURE** **A fresh look at an old nano-technology: Catalysis** H.-J. Freund, Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin/D	
	Chemiehörsaal C	**Chemiehörsaal D**
	Chemical dynamics	**Experimental methods**
	Chair: F. Temps	*Chair: M. Schnell*
14:30	**Chemically expanded antibunching** M. Vester, B. Finkler, G. Jung, Universität des Saarlandes, Saarbrücken/D	**FULL LECTURE** **Functional surfactants for excitation-energy transfer in carbon nanotube-perylene complexes** S. Reich, Freie Universität Berlin/D; F. Ernst, Freie Universität Berlin/D und Columbia University, New York, NY/USA; A. Setaro, T. Heek, R. Haag, Freie Universität Berlin/D; Z. Gao, L. Cognet, University of Bordeaux, Talence/F; R. Arenal, R. Fernandes-Pacheco, University of Zaragoza/E
14:50	**Probing attosecond charge migration in oriented molecules** P.M. Kraus, A. Rupenyan, D. Baykusheva, J. Schneider, H.J. Wörner, ETH Zürich/CH	
15:10	**Non-adiabatic dynamics of state- and isomer-selected molecules fixed in space** S. Trippel, T. Mullins, N. Müller, Deutsches Elektronen-Synchrotron (DESY), Hamburg/D; J. Kienitz, J. Küpper, Deutsches Elektronen-Synchrotron (DESY) and University of Hamburg/D	**Continuous-flow device for *in-situ* investigation of nucleation and growth of colloidal semiconductor nanocrystals** R. Seher, C. Palencia Ramiréz, Universität Hamburg/D; J. Niehaus, Centrum für Angewandte Nanotechnologie GmbH, Hamburg/D; H. Weller, Universität Hamburg/D
15:30	**Intramolecular vibrational energy redistribution in HCCCN** A. Kushnarenko, E. Miloglyadov, M. Quack, G. Seyfang, ETH Zürich/CH	**Femtosecond time resolved photoelectron spectroscopy with XUV pulses in aqueous solution utilizing liquid microjet technique** J. Metje, M. Borgwardt, A. Moguilevski, A. Kothe, N. Engel, M. Wilke, R. Al-Obaidi, D. Tolksdorf, Freie Universität Berlin/D; A. Firsov, M. Brzhezinskaya, A. Erko, Helmholtz-Zentrum Berlin/D; I.Yu. Kiyan, E.F. Aziz, Freie Universität Berlin/D
15:50	COFFEE BREAK	
	Chemical dynamics	**Experimental methods**
	Chair: J. Küpper	*Chair: R. Schäfer*
16:10	**Monitoring charge transfer at N_3-ZnO interfaces via femtosecond time-resolved core level photoelectron spectroscopy** K.R. Siefermann, Leibniz Institute of Surface Modification (IOM), Leipzig/D; C.D. Pemmaraju, S. Neppl, D. Prendergast, Lawrence Berkeley National Laboratory, CA/USA; S. Gul, University of California Santa Cruz, CA/USA; O. Gessner, Lawrence Berkeley National Laboratory, CA/USA	**Aspects of the vibrational optical activity (VOA) of tetranuclear cobalt transition metal complexes** P. Oulevey, T. Bürgi, Universität Genf/CH
16:30	**Disentangling short-lived reaction intermediates of photoexcited ferrocyanide using time-resolved X-ray spectroscopy** T. Assefa, W. Gawelda, A. Galler, A. Britz, European XFEL, Hamburg/D; G. Vankó, Z. Németh, Hungarian Academy of Sciences, Budapest/H; A.M. March, G. Doumy, S.H. Southworth, L. Young, Argonne National Laboratory, Argonne/USA; Ch. Bressler, European XFEL, Hamburg/D	**IR-laser mass spectrometry on levitated droplets** J. Riedel, BAM Bundesanstalt für Materialforschung und -prüfung, Berlin/D
16:50	**Proton transfer in aqueous solutions** I. Unger, Helmholtz Zentrum Berlin für Materialien und Energie GmbH/D; S. Thürmer, Center for Frontier Science, Chiba/J; B. Winter, Helmholtz Zentrum Berlin für Materialien und Energie GmbH/D	**Enantiomer identification of chiral molecules using broadband microwave spectroscopy** M. Schnell, V.A. Shubert, D. Schmitz, Max-Planck-Institut für Struktur und Dynamik der Materie, Hamburg/D; D. Patterson, J.M. Doyle, Harvard University, Cambridge, MA/USA
17:10	**Ultrafast dynamics of ferrocyanide in solution investigated by femtosecond laser UV-pump XUV-probe photoelectron spectroscopy** N. Engel, A. Kothe, A. Moguilevski, J. Metje, M. Borgwardt, D. Tolksdorf, M. Wilke, R. Al-Obaidi, I.Y. Kiyan, E.F. Aziz, Joint Ultrafast Dynamics Lab in Solutions and at Interfaces, Berlin/D	**A combined study of soft X-ray spectroscopies and theoretical ab initio methods: on the L-edge of Fe(III) and Co(III) proto-porphyrin IX** K. Atak, R. Golnak, J. Xiao, E. Suljoti, M. Pflüger, T. Brandenburg, E.F. Aziz, Helmholtz Zentrum Berlin/D
17:30	**Postersession I** (even numbers)	
19:00 – 20:30	**Postersession II** (odd numbers)	

Afternoon

Friday, 30 May 2014

Chemiehörsaal A		
Chair: J. Sauer		
PLENARY LECTURE **A fresh look at an old nano-technology: Catalysis** H.-J. Freund, Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin/D		13:40
Chemiehörsaal TMC	**Pharmazie**	
Industrial applications	**Biophysical chemistry**	
Chair: H. Egger	*Chair: A. Janshoff*	
Towards high-capacity carbon-silicon nanocomposite anodes for next-generation lithium-ion batteries B. Ketterer, C. Schreiner, C. Wijayawardhana, SGL CARBON GmbH, Meitingen/D	**Understanding the "native" biomolecular solvent – from dilute solutions into the cell** S. Ebbinghaus, Ruhr-Universität Bochum/D	14:30
tba	**Pressure perturbation of actin suprastructures** C. Rosin, R. Winter, TU Dortmund/D	14:50
tba	FULL LECTURE **Exploring the conformational space of biomolecular systems using pressure perturbation** R. Winter, TU Dortmund/D	15:10
tba		15:30
COFFEE BREAK		15:50
Interfaces	**Biophysical chemistry**	
Chair: S. Schauermann	*Chair: A. Janshoff*	
Properties of semiconducting electrode-electrolyte interfaces: Double layer formation and charge transfer R. Hausbrand, TU Darmstadt/D; M. Rohwerder, Max-Planck-Institut für Eisenforschung, Düsseldorf/D	**Role of lipid monolayer at interaction with cationic model peptides at the air/water interface** A. Hädicke, C. Schwieger, A. Blume, Universität Halle-Wittenberg/D	16:10
Wetting behavior of water on flat and rough non-polar surfaces. What can be learnt from molecular dynamics simulations? F. Leroy, F. Müller-Plathe, F. Taherian, N.F.A. van der Vegt, TU Darmstadt/D	**Segment-resolved FT-IR double difference spectroscopy locates unfolding helices within the aureochrome blue light sensor** E. Herman, Universität Bielefeld/D; M. Sachse, P.G. Kroth, Universität Konstanz/D; T. Kottke, Universität Bielefeld/D	16:30
FULL LECTURE **Tailor-made soft interfaces and polymer-based architectures: from synthesis, assembly & fabrication to characterization and localized analys** I. Lilge, E. Wassel, S. Haas, K.-S. Tücking, S. Handschuh-Wang, M. Raoufi, D. Wesner, Y. Voss, H. Schönherr, Universität Siegen/D	**Efficient calculation of anharmonic vibrational spectra for biomolecules** P.T. Panek, C.R. Jacob, Karlsruhe Institute of Technology/D	16:50
	Preferential solvation and the hydrophobic collapse of water-soluble macromolecules in mixed solvents N.F.A. van der Vegt, P. Ganguly, F. Rodriguez-Ropero, TU Darmstadt/D	17:10
Postersession I (even numbers)		17:30
Postersession II (odd numbers)		19:00 – 20:30

Saturday, 31 May 2014 — Morning

	Chemiehörsaal A	Chemiehörsaal B
	Chair: M. Quack	
8:30	**PLENARY LECTURE** **Nanowires: a platform for nanoscience and technology** C. Lieber, Harvard University, Cambridge, MA/USA	
	Physical chemistry on the nanometer scale (main topic)	**Hot Topics**
	Chair: A. Eychmüller	*Chair: E.F. Aziz*
9:20	**FULL LECTURE** **Photoelectron spectroscopy at the liquid-nanoparticle interface** M.A. Brown, ETH Zurich/CH	**Computation of molecular parity violation in view of spectroscopic experiments** L. Horny, M. Quack, ETH Zürich/CH
9:40		**Specific chemical reactivities of spatially separated 3-aminophenol conformers with cold Ca+ ions** Y. Chang, J. Küpper, DESY, Hamburg/D; J. Küpper, Universität Hamburg/D; J. Küpper, The Hamburg Center for Ultrafast Imaging/D; D. Rösch, S. Willitsch, Universität Basel/CH
10:00	**CO binding to small transition metal alloy clusters** D. Yubero Valdivielso, TU Berlin/D; W. Schöllkopf, Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin/D; A. Fielicke, TU Berlin/D	**Optical and electrical properties of individual chemically synthesized CdSe quantum nanowires** T. Kipp, A. Reich, Ch. Strelow, D. Franz, S. Schäfer, Z. Wang, A. Mews, Universität Hamburg/D
10:20	**The structures of ruthenium clusters** E. Waldt, R. Ahlrichs, M.M. Kappes, D. Schooss, Karlsruher Institut für Technologie/D	**Metal nanoparticle field-effect transistor** C. Klinke, Y. Cai, J. Michels, J. Bachmann, Universität Hamburg/D
10:40	COFFEE BREAK	
	Physical chemistry on the nanometer scale (main topic)	**Physical chemistry on the nanometer scale** (main topic)
	Chair: W. Kautek	*Chair: A. Stierle*
11:00	**FULL LECTURE** **Kinetic study of catalytic reduction of 4-nitrophenol by Au nanoparticles immobilized in spherical polyelectrolyte brushes** S. Wunder, Y. Lu, M. Ballauff, Helmholtz-Zentrum Berlin für Materialien und Energie GmbH/D; B. Jaquet, Swiss Federal Institute of Technology, Zürich/CH; A. Zaccone, University of Cambridge/UK	**Hot-injection and seeded growth with "sacrificial particles" as precursors: Synthesis of hexagonal phase $NaYF_4$:Yb,Er nano-particles from "sacrificial" cubic phase $NaYF_4$:Yb,Er 4 nm particles** J. Nordmann, B. Voß, A. Naduviledathu Raj, K. Mummenhoff, M. Haase, Universität Osnabrück/D
11:20		**Ultra-low temperature studies on the up-conversion luminescence of co-doped $NaYF_4$-based nanoparticles** D. Klier, M.U. Kumke, Universität Potsdam/D
11:40	**Scanning near-field optical microscopy and nano-FTIR spectroscopy on sub-nanometer MoS_2 structures by using synchrotron radiation** P. Patoka, G. Ulrich, Freie Universität Berlin/D; P. Hermann, Physikalisch-Technische Bundesanstalt, Berlin/D; A. Nguyen, J. Mann, University of California Riverside, CA/USA; A. Hoehl, B. Beckhoff, Physikalisch-Technische Bundesanstalt, Berlin/D; L. Bartels, University of California Riverside, CA/USA; P. Dowben, University of Nebraska, Lincoln, NE/USA; G. Ulm, Physikalisch-Technische Bundesanstalt, Berlin/D; E. Rühl, Freie Universität Berlin/D	**Synthesis of $ZnIn_2S_4$ nanosheets, their tunable photoluminescence and photochemical properties** B. Kempken, J. Parisi, J. Kolny-Olesiak, Universität Oldenburg/D
12:00	**Elastic and viscoelastic properties of crosslinked gold nanoparticles probed by AFM-bulge tests** H. Schlicke, E.W. Leib, A. Petrov, Universität Hamburg/D; J.H. Schröder, Universität Bayreuth/D; T. Vossmeyer, Universität Hamburg/D	**Gel fabrication from colloidal semiconductor and metal nanoparticles** N.C. Bigall, Universität Hannover/D
12:20	LUNCH BREAK (12:30-13:40 Mitgliederversammlung AG Bunsen-Karriereforum)	

Morning

Saturday, 31 May 2014

Chemiehörsaal A		
Chair: M. Quack		
PLENARY LECTURE **Nanowires: a platform for nanoscience and technology** C. Lieber, Harvard University, Cambridge, MA/USA		8:30
Chemiehörsaal C	**Chemiehörsaal D**	
Chemical dynamics	**Energy Storage and Conversion**	
Chair: M. Quack	*Chair: B. Kaiser*	
Ultrafast spectroscopic studies of cyclic tetrazolium cell dyes and their photoproducts F. Kanal, D. Schleier, N. Schopf, P. Nuernberger, Universität Würzburg/D	**Li intercalation mechanisms and Li ion dynamics in electrode/electrolyte materials for Li-ion batteries investigated with NMR spectroscopy** S. Indris, Karlsruhe Institute of Technology/D	9:20
Ultrafast photochemistry of coumarin cages studied by VIS-pump-IR-probe spectroscopy C. Neumann, L.J.G.W. van Wilderen, A. Rodrigues Correia, A. Heckel, J. Bredenbeck, Universität Frankfurt/D	**Size effects of $LiFePO_4$ cathode materials** C. Zhu, Max Planck Institute for Solid State Research, Stuttgart/D; L. Gu, H. Li, Chinese Academy of Sciences, Beijing/CHN; J. Popovic, Y. Yu, J. Maier, Max Planck Institute for Solid State Research, Stuttgart/D	9:40
Ultrafast electronic relaxation of triphenylverdazyl radicals via transient ring-opening mechanism B. Wezisla, C. Weinert, J. Lindner, P. Vöhringer, Universität Bonn/D	**Konversionsreaktionen in Li- und Na-Ionen Batterien: Elektrodenreaktionen im Nanometerbereich** F. Klein, B. Jache, P. Adelhelm, Universität Gießen/D	10:00
Ultrafast transient absorption studies of heteroleptic copper photosensitizers used in hydrogen evolving systems S. Tschierlei, Universität Rostock/D; M. Karnahl, N. Rockstroh, H. Junge, M. Beller, Leibniz-Institut für Katalyse e.V., Rostock/D; S. Lochbrunner, Universität Rostock/D	**3D-Strukturierung von Elektroden durch Elektrospinning am Beispiel einer $LiFePO_4$-Kathode für Lithium-Ionen-Batterien** K. Bachtin, Helmholtz Institut Ulm/D; K. Bachtin, M. Kaus, Karlsruher Institut für Technologie/D; S. Indris, Helmholtz Institut Ulm/D; S. Indris, Karlsruher Institut für Technologie/D; C. Roth, Freie Universität Berlin/D; H. Ehrenberg, Helmholtz Institut Ulm/D; H. Ehrenberg, Karlsruher Institut für Technologie/D	10:20
COFFEE BREAK		10:40
Chemical dynamics	**Energy Storage and Conversion**	
Chair: G. Friedrichs	*Chair: S. Indris*	
Excited-state dynamics of a ruthenium(II) catalyst studied by transient photofragmentation in gas phase and transient absorption in solution D. Imanbaew, Y. Nosenko, K. Chevalier, F. Rupp, C. Kerner, C. Riehn, R. Diller, W.R. Thiel, TU Kaiserslautern/D	**Electrochemical deposition of palladium on few-layer graphene sheets for fuel cell applications** M. Höltig, C. Ruhmlieb, A. Mews, Universität Hamburg/D	11:00
Photodissociation dynamics of propargylene, HCCCH J. Giegerich, I. Fischer, Universität Würzburg/D	**Silicon based tandem cells: A novel photocathode for hydrogen production** J. Ziegler, F. Yang, B. Kaiser, W. Jaegermann, TU Darmstadt/D; F. Urbain, F. Finger, U. Rau, Forschungszentrum Jülich/D	11:20
Exploring the gas phase rearrangement and decomposition of o-xylyl radicals applying VUV synchrotron radiation and coincidence techniques P. Hemberger, Paul Scherrer Institut, Villigen/CH; A.J. Trevitt, University of Wollongong/AUS; T. Gerber, Paul Scherrer Institut, Villigen/CH; E. Ross, G. da Silva, Melbourne School of Engineering/AUS	**An electrochemical study on the mechanism of CO_2 reduction in pyridine containing electrolytes at platinum electrodes** K.R. Bickel, S. Filser, Q. Li, K. Schönleber, K. Krischer, TU München, Garching/D	11:40
Synchrotron-based FTIR spectroscopy of the chiral molecules CDBrClF and CHBrIF S. Albert, S. Bauerecker, K. Keppler, ETH Zürich/CH; P. Lerch, Paul-Scherrer-Institute, Villigen/CH; M. Quack, ETH Zürich/CH	**Energy harvesting from entropy currents using thermoelectric oxides** A. Feldhoff, B. Geppert, Universität Hannover/D	12:00
LUNCH BREAK (12:30-13:40 Mitgliederversammlung AG Bunsen-Karriereforum)		12:20

Saturday, 31 May 2014 — Morning

	Chemiehörsaal A	
	Chair: M. Quack	
8:30	PLENARY LECTURE **Nanowires: a platform for nanoscience and technology** C. Lieber, Harvard University, Cambridge, MA/USA	
	Chemiehörsaal TMC	**Pharmazie**
	Interfaces	
	Chair: K. Al-Shamery	
9:20	**High-precision drop shape analysis: Introduction of this new method in comparison to commercial contact angle analysis on inclined surfaces** M. Schmitt, K. Groß, F. Heib, R. Hempelmann, Universität des Saarlandes, Saarbrücken/D	
9:40	**VSFG study of octadecenoic acid monolayers at the air-water interface and their heterogeneous O_3 oxidation reactivity** J. Kleber, G. Friedrichs, Universität Kiel/D	
10:00	**Imidazolium-based ionic liquids interacting with ordered cerium dioxide surfaces: A synchrotron-radiation photoelectron spectroscopy study** M. Laurin, Y. Lykhach, S. Schernich, N. Taccardi, V. Wagner, P. Wasserscheid, H.-P. Steinrück, J. Libuda, Universität Erlangen-Nürnberg/D; N. Tsud, T. Skála, V. Matolín, Charles University, Prague/CZ; K. Prince, Sincrotrone Trieste/I	
10:20	**Heterographene: Nitrogen and boron doping of graphene** C. Papp, Universität Erlangen-Nürnberg/D; R. Koch, TU Chemnitz/D; J. Gebhardt, W. Zhao, O. Höfert, K. Gotterbarm, Universität Erlangen-Nürnberg/D; Th. Seyller, TU Chemnitz/D; A. Görling, H.-P. Steinrück, Universität Erlangen-Nürnberg/D	
10:40	COFFEE BREAK	
	Catalysis	**Electrochemistry**
	Chair: J. Sauer	*Chair: J. Fleig*
11:00	**The influence of promoters on the electronic and catalytic properties of Cu/ZnO catalysts for methanol synthesis** J. Schumann, M. Eichelbaum, R. Schlögl, M. Behrens, Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin/D	**Bombardment induced ion transport – Method and application** A. Hein, J. Martin, D. Budina, J. Zakel, M. Schäfer, K.-M. Weitzel, Universität Marburg/D
11:20	**Defect-engineered copper and ruthenium metal-organic frameworks studied by UHV-FTIR spectroscopy** M. Kauer, H. Noei, Z. Fang, O. Kozachuk, R.A. Fischer, M. Muhler, K. Morgenstern, Y. Wang, Ruhr-Universität Bochum/D	**Charge transport properties of Fe-doped $SrTiO_3$ thin films upon DC voltage** S. Huber, G. Fafilek, J. Fleig, TU Wien/A
11:40	FULL LECTURE **The active state of an operating catalyst – new insight into the ethylene epoxidation over silver** J. Wintterlin, S. Böcklein, University of Munich/D; S. Günther, TU Munich/D; R. Wyrwich, University of Munich/D; T.O. Mentes, M.A. Nino, A. Locatelli, Elettra - Sincrotrone Trieste S.C.p.A./I	**Chlorine evolution reaction on RuO_2(110) catalyst in hydrochloric acid solution: Mechanistic *ab initio* thermodynamic DFT study** K.S. Exner, Universität Gießen/D; J. Anton, T. Jacob, Universität Ulm/D; H. Over, Universität Gießen/D
12:00		**Stability of UHV prepared PtRu model electrodes and its influence on the electrocatalytic CO oxidation** A.K. Engstfeld, J. Klein, S. Brimaud, R.J. Behm, Universität Ulm/D
12:20	LUNCH BREAK (12:30-13:40 Mitgliederversammlung AG Bunsen-Karriereforum)	

Afternoon

Saturday, 31 May 2014

Chemiehörsaal A		
Chair: A. Mews		
PLENARY LECTURE **Macromolecular structure determination with X-ray laser pulses** H. Chapman, Center for Free-Electron Laser Science, Hamburg/D		13:40
Chemiehörsaal A	**Chemiehörsaal B**	
Physical chemistry on the nanometer scale (main topic)	**Physical chemistry on the nanometer scale** (main topic)	
Chair: tba	*Chair: A. Fielicke*	
Surface composition, stoichiometry and photoluminescence properties of metal oxide nanoparticles A.R. Gheisi, C. Neygandhi, A. Sternig, Universität Erlangen-Nürnberg/D; D. Thomele, Universität Salzburg/A; E. Carrasco Burgos, H. Marbach, Universität Erlangen-Nürnberg/D; O. Diwald, Universität Salzburg/A	**Infrared reflection absorption spectroscopy on metal oxide single crystals: First data for ZnO** M. Buchholz, P.G. Weidler, F. Bebensee, A. Nefedov, C. Wöll, Karlsruher Institut für Technologie, Eggenstein-Leopoldshafen/D	14:30
Preparation of monodisperse microparticles from metal oxides for the fabrication of thermally stable photonic crystals E.W. Leib, J. Kus, Universität Hamburg/D; U. Vainio, Helmholtz-Zentrum Geesthacht/D; H. Weller, T. Vossmeyer, Universität Hamburg/D	**Surface reaction on structurally well defined mono- and bimetallic electrodes studied by ATR-FTIRS** S. Brimaud, R.J. Behm, Universität Ulm/D	14:50
Preparation and assembly of monodisperse core-shell-shell metallodielectric particles for the fabrication of perfect absorbers A. Petrov, University of Hamburg/D; P.N. Dyachenko, Hamburg University of Technology/D; T. Hadler, University of Hamburg/D; A.Yu. Petrov, M. Eich, Hamburg University of Technology/D; H. Weller, T. Vossmeyer, University of Hamburg/D	**Atomic layer deposition of nanometer scaled SiO_2 films in mesoporous ion-track etched polycarbonate membranes** N. Sobel, TU Darmstadt/D; A. Spende, GSI Helmholtz Centre for Heavy Ion Research, Darmstadt/D; M. Lukas, TU Darmstadt/D; M.E. Toimil-Molares, GSI Helmholtz Centre for Heavy Ion Research, Darmstadt/D; B. Stühn, TU Darmstadt/D; C. Trautmann, GSI Helmholtz Centre for Heavy Ion Research, Darmstadt/D; C. Hess, TU Darmstadt/D	15:10
Proceedings in the synthesis and assembly of tetrazole-capped nanoparticles A. Wolf, C. Guhrenz, TU Dresden/D; S. Voitekhovich, Belarusian State University, Minsk/BY; V. Lesnyak, Istituto Italiano di Tecnoligia, Genova/I; N. Gaponik, A. Eychmüller, TU Dresden/D	**Semiconductor nanowires grown on electrodes by wet chemical methods** A. Littig, N. Reim, A. Mews, Universität Hamburg/D	15:30
Synthesis and characterization of alloy InPAs/ZnS core-shell nanoparticles with tunable emission in the near-infrared S. Wölper, A. Kornowski, H. Weller, Universität Hamburg/D	**Ionic conductivity of nanocrystalline heavily acceptor doped ceria: The role of the local atomic order** C. Aliotta, Università di Palermo/I; G. Gregori, Max-Planck-Institut für Festkörperforschung, Stuttgart/D; F. Giannici, A. Martorana, Università di Palermo/I; J. Maier, Max-Planck-Institut für Festkörperforschung, Stuttgart/D	15:50
POSTER AWARDS AND CLOSING CEREMONY		16:10 – 17:00
CONFERENCE DINNER (see page 91)		19:00

Saturday, 31 May 2014 — Afternoon

	Chemiehörsaal A	
	Chair: A. Mews	
13:40	**PLENARY LECTURE** **Macromolecular structure determination with X-ray laser pulses** H. Chapman, Center for Free-Electron Laser Science, Hamburg/D	
	Chemiehörsaal C	**Chemiehörsaal D**
	Polymers and Soft Matter	**DBG Awards**
	Chair: T. Sottmann	*Chair: M. Peuckert*
14:30	**Chain and junction dynamics in supramolecular polymer networks** S. Seiffert, Helmholtz-Zentrum Berlin/D	**Award lecture of the Paul-Bunge-Prize**
14:50	**Polyelectrolyte interaction with redox-active counterions** F. Plamper, O. Mergel, RWTH Aachen/D	
15:10	**Monte Carlo study of shielding effects in polymerization processes close to surfaces** S. Eisenhaber, G. Zifferer, Universität Wien/A	**Award lecture of the Ewald-Wicke-Prize**
15:30	**Deformation, orientation and bursting of microcapsules in simple shear flow: Wrinkling processes, tumbling and swinging motions** H. Rehage, I. Koleva, A. Unverfehrt, TU Dortmund/D	**Award lecture of the Nernst-Haber-Bodenstein-Prize**
15:50	**Rheological properties of binary colloidal mixtures consisting of thermosensitive polymer particles and anisotropic hematite particles** A. Nack, F. Ziegert, C. Passow, J. Wagner, Universität Rostock/D	
16:10 – 17:00	**POSTER AWARDS AND CLOSING CEREMONY**	
19:00	**CONFERENCE DINNER** (see page 91)	

Afternoon

Saturday, 31 May 2014

Chemiehörsaal A		
Chair: A. Mews		
PLENARY LECTURE **Macromolecular structure determination with X-ray laser pulses** H. Chapman, Center for Free-Electron Laser Science, Hamburg/D		13:40
Chemiehörsaal TMC	**Pharmazie**	
Catalysis	**Electrochemistry**	
Chair: J. Wintterlin	*Chair: W. Kautek*	
Oxidation of orientated brass surfaces studied by STM and XPS A. Zychma, A. Birkner, Ruhr-Universität Bochum/D	FULL LECTURE **Fundamental studies of sonoelectrochemical metal deposition** O. Schneider, H. Bartl, W. Ju, TU München/D; S. Martens, G. Sourkouni, TU Clausthal/D; P. Sakkas, C. Argirusis, National Technical University of Athens/GR	14:30
DFT studies on the functioning of the active site of a ceria supported vanadia catalyst in the selective oxidation of methanol J. Paier, T. Kropp, J. Sauer, Humboldt-Universität zu Berlin/D		14:50
Surface doping of anatase TiO_2 with isolated tin oxide species for photocatalytic applications S. Chu, F.E. Oropeza, A.E. Becerikli, B. Bartlewski, J. Strunk, Ruhr-Universität Bochum/D	**Switching the electrical conductivity of surface grown metal organic frameworks by loading** V. Mugnaini, J. Liu, Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen/D; C. Hung, University of Heidelberg/D; M. Buck, University of St Andrews/UK; H. Gliemann, Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen/D; M. Zharnikov, University of Heidelberg/D; C. Wöll, Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen/D	15:10
Investigation of adsorption and thermal evolution of hydroquinone on Pt(111) and Pt(355) C. Wöckel, V. Schlykow, M. Weiß, Universität Leipzig/D; C. Gleichweit, C. Bronnbauer, K. Gotterbarm, H.-P. Steinrück, Universität Erlangen-Nürnberg/D; R. Denecke, Universität Leipzig/D	**Kombination von Photolithographie und elektrochemischer Abscheidung zur Herstellung mikrostrukturierter Werkzeuge für ECM-Anwendungen** M. Weinmann, O. Weber, H. Natter, Universität des Saarlandes, Saarbrücken/D	15:30
Mixed oxide semiconductor materials for photocatalytic hydrogen generation R. Marschall, Universität Gießen/D	**Electrodeposited EDOT containing 3D copolymers based on a terthiophene branching unit** A. Ruff, E. Muks, M. Goll, B. Omiecienski, S. Ludwigs, Universität Stuttgart/D	15:50
POSTER AWARDS AND CLOSING CEREMONY		16:10 – 17:00
CONFERENCE DINNER (see page 91)		19:00

Physical chemistry on the nanometer scale (main topic)

P1-01 **Neurotransmitter detection using corona phase molecular recognition on fluorescent single-walled carbon nanotube sensors**
S. Kruss, M. Landry, E. Vander Ende, B. Lima, N. Reuel, J. Zhang, J. Nelson, B. Mu, A. Hilmer, M. Strano, Massachusetts Institute of Technology, Cambridge, MA/USA

P1-02 **Predicting the mechanochemical behavior of multivalent thiol ligands on gold surfaces from free energy relationships**
M. Zoloff Michoff, J. Ribas-Arino, D. Marx, Ruhr-Universität Bochum/D

P1-03 **Chemical reactions and electronic structure of single molecules at surfaces**
A. Riss, TU Wien/A; S. Wickenburg, L.Z. Tan, H.-Z. Tsai, P. Gorman, D. De Oyteza, Y.-C. Chen, A.J. Bradley, M.M. Ugeda, G. Etkin, S.G. Louie, F.R. Fischer, M.F. Crommie, University of California Berkeley, CA/USA

P1-04 **Controlling the defect centers in ZnO nanoparticles by *in-situ* light-induced and high field EPR spectroscopy**
S. Repp, Universität Freiburg/D

P1-05 **Bottom-up fabrication of plasmonic nanohole arrays loaded with gold nanoparticles**
M. Weiler, S. Klenk, S. Quint, C. Pacholski, Max Planck Institute for Intelligent Systems, Stuttgart/D

P1-06 **Large-scale synthesis of gold nanoparticles in organic solvents using a seeded growth approach**
C. Stanglmair, S. Scheeler, C. Pacholski, Max Planck Institute for Intelligent Systems, Stuttgart/D

P1-07 **Properties of bimetallic nanoparticles synthesized in microemulsions**
R.Y.G. König, Universität Stuttgart/D; M. Schwarze, R. Schomäcker, TU Berlin/D; C. Stubenrauch, Universität Stuttgart/D

P1-08 **Nanoparticle-based non-fragmenting and fragmenting initiator for photo induced polymerization**
M. Schmitt, F. Heib, Universität des Saarlandes, Saarbrücken/D

P1-09 **Combination of AFM and nanofluidics for micromanipulation of single cells and surfaces**
P. Roder, H.-G. Löhmannsröben, C. Hille, Universität Potsdam/D

P1-10 **Magnetic nanocomposite materials**
P. Degen, I. Schulz, M. Paulus, H. Rehage, M. Tolan, TU Dortmund/D

P1-11 **IRMPD spectra of metal-lumichrome ionic complexes**
P. Nieto, A. Günther, S. Seidenbecher, J. Langer, TU Berlin/D; G. Berden, J. Oomens, FOM Institute for Plasma Physics Rijnhuizen, Nieuwegein/NL; O. Dopfer, TU Berlin/D

P1-12 **DNA origami structures for highly sensitive surface-enhanced Raman scattering**
J. Prinz, University of Potsdam/D; C. Heck, University of Potsdam and Humboldt University Berlin/D; L. Olejko, University of Potsdam/D; I. Bald, University of Potsdam and BAM Federal Institute of Materials Research and Testing, Berlin/D

P1-13 **Two-dimensional arrangement of magnetic nanoparticles at interfaces**
E. Zwar, P. Degen, H. Rehage, TU Dortmund/D

P1-14 **Electrophoretic deposition from nanodispersions for high density ceramic green bodies**
J. Micior, B. Lalik, M. Bredol, Fachhochschule Münster, Steinfurt/D

P1-15 **Super-resolution cellular imaging by using dSTORM with conventional photoswitchable fluorescent probes**
S. Schulze, H.-G. Löhmannsröben, C. Hille, Universität Potsdam/D

P1-16 **Novel approaches to study low-energy electron-induced damage to DNA oligonucleotides**
J. Rackwitz, M. Cywinska, Universität Potsdam/D; A. Keller, Helmholtz-Zentrum Dresden-Rossendorf/D; I. Bald, Universität Potsdam und BAM Bundesanstalt für Materialforschung und -prüfung, Berlin/D

P1-17 **Gold-template supported synthesis of concave semiconductor nanoparticles**
D. Hinrichs, T. Kodanek, A. Wolf, D. Dorfs, Universität Hannover/D

P1-18 **High resolution fluorescence microscopy for the study of surfactant aggregates on solid surfaces**
M. Bous, J. Güngör, W. von Rybinski, Universität Düsseldorf/D

P1-19 **Incorporating luminescent nanoparticles into ionic matrices to enhance their applicability and stability**
T. Otto, M. Müller, TU Dresden/D; M. Kaiser, BAM Federal Institute for Materials Research and Testing, Berlin/D; R. Tietze, G.M. Stachowski, TU Dresden/D; V. Lesnyak, Istituto Italiano di Tecnologia, Genova/I; H.V. Demir, Bilkent University/TR; N. Gaponik, A. Eychmüller, TU Dresden/D

P1-20 **Plasmon resonances of degenerately self-doped semiconductor nanoparticles**
A. Wolf, D. Dorfs, Universität Hannover/D

P1-21 **Semiconductor nanorods in the proximity of ordered gold nanorod assemblies – Spectral properties**
W. Friedrich, C. Wolter, K. Hoppe, H. Weller, Universität Hamburg/D

P1-22 **Solvent dynamics in nanoscale reverse micelle water pool: A spectroscopic investigation of DDAB/cyclohexane/water systems**
T.Q. Luong, Ruhr-Universität Bochum/D; A. Patra, R.K. Mitra, S.N. Bose National Centre for Basic Sciences, Kolkata/IND; M. Havenith, Ruhr-Universität Bochum/D

P1-23 **Synthesis and electrical characterization of colloidal Pt-CdSe hybrid nanoparticles**
M. Meyns, H. Lehmann, C. Klinke, Universität Hamburg/D

P1-24 **3D assembly of silica encapsulated semiconductor nanocrystals**
C. Rengers, TU Dresden/D; S.V. Voitekhovich, Belarusian State University, Minsk/BY; Z. Popovic, ECOLAB, Monheim/D; A. Wolf, TU Dresden/D; V. Lesnyak, Istituto Italiano di Tecnologia, Genova/I; N. Gaponik, A. Eychmüller, TU Dresden/D

P1-25 **Origin of the narrow size distribution of ß-$NaYF_4$:Yb, Er nanocrystals prepared via Ostwald ripening of small particles**
T. Rinkel, J. Nordmann, M. Haase, Universität Osnabrück/D

P1-26 **Monitoring the shell-growth of $NaEuF_4$/$NaGdF_4$ core-shell nanoparticles by utilizing surface-sensitive antenna molecules**
S. Dühnen, E. Arent, B. Voß, M. Haase, Universität Osnabrück/D

P1-27 **Radiosensitization of DNA by gold-nanoparticles and 5-bromouracil studied by surface enhanced Raman spectroscopy and atomic force microscopy**
R. Schürmann, BAM Bundesanstalt für Materialforschung und -prüfung, Berlin/D; J. Prinz, Universität Potsdam/D; I. Bald, BAM Bundesanstalt für Materialforschung und -prüfung, Berlin/D

P1-28 **Integration of intense and narrow emitting CdTe nanoparticles into ionic matrices**
R. Tietze, M. Müller, N. Gaponik, A. Eychmüller, TU Dresden/D

P1-29 **Intrinsic focussing of the particle size distribution in colloids containing nanocrystals of two different crystal phases**
B. Voss, M. Haase, Universität Osnabrück/D

P1-30 **Investigation of ice on Ag(111) via scanning tunneling microscopy: Kinetics and thermodynamics**
K. Lucht, C. Bertram, K. Morgenstern, Ruhr-Universität Bochum/D

P1-31 **On the way to improved metal nanoparticle field-effect transistors**
M. Volkmann, S. Kull, H. Lehmann, Ch. Klinke, Universität Hamburg/D

P1-32 **Orbital mixing and charge transfer in aqueous ferric and ferrous aqueous solutions**
R. Golnak, I. Unger, J. Xiao, B. Winter, N. Llobera Vila, M. Pohl, E. Suljoti, E. Aziz, Helmholtz-Zentrum Berlin/D

P1-33 **Microemulsions with ionic liquids: Interfacial tension and microstructure**
J. Thater, V. Gérard, C. Stubenrauch, Universität Stuttgart/D

P1-34 **Structural investigation of Eu^{3+}-doped ceria zirconia nanoparticles using luminescence spectroscopy at T = 4 K**
A. Menski, P.-A. Primus, M.U. Kumke, Universität Potsdam/D

P1-35 **Towards functional optoelectronic nanocrystal solids-
virtually bare surfaces and significantly enhanced electrical transport in $CuIn(Ga)Se_2$**
J. Lauth, J. Marbach, A. Meyer, S. Dogan, C. Klinke, A. Kornowski, H. Weller, Universität Hamburg/D

P1-36 **Cation exchange reactions on semiconductor nanorods and their effect on optical and structural properties**
P. Adel, D. Dorfs, Universität Hannover/D

P1-37 **X-ray diffraction of gold nanoparticles in solution**
T. Redder, Universität Hamburg/D

P1-38 **Synthesis and characterization of Au-PbS core-shell nanoparticles as a model system for thermoelectrics**
D. Haubold, L. Bahrig, S.G. Hickey, A. Eychmüller, TU Dresden/D

P1-39 **Films of PbS nanowire for thermoelectric application**
S. Gabriel, S.G. Hickey, A. Eychmüller, TU Dresden/D; J. Heuer, Fraunhofer-Institut für Physikalische Messtechnik IPM, Freiburg/D; J. García-Cañadas, G. Min, Cardiff University/UK

P1-40 **Three-color FRET cascades and selective potassium sensing on DNA origami templates**
L. Olejko, Universität Potsdam/D; P. Cywinski, Fraunhofer-Institut für Angewandte Polymerforschung, Potsdam/D; I. Bald, Universität Potsdam und BAM Bundesanstalt für Materialforschung und -prüfung, Berlin/D

P1-41 **Synthesis and low temperature spectroscopy of semiconductor quantum nanowires**
A. Reich, A. Nielsen, Universität Hamburg/D; Z. Wang, Universität Zürich/CH; C. Strelow, T. Kipp, A. Mews, Universität Hamburg/D

P1-42 **Aqueous microemulsions with ionic liquids – Myth or reality?**
M. Bürger, C. Stubenrauch, J.H. Porada, Universität Stuttgart/D

P1-43 **Spin and orbit contributions to the magnetic moments of isolated transition metal clusters and complexes**
M. Tombers, J. Meyer, G. Niedner-Schatteburg, TU Kaiserslautern/D; S. Peredkov, Lund University/S; W. Eberhardt, TU Berlin/D; M. Neeb, Helmholtz-Zentrum Berlin/D; S. Palutke, M. Martins, W. Wurth, Universität Hamburg/D; D. Dieleman, A. Kirilyuk, Radboud University Nijmegen/NL; A. Lawicki, T. Lau, Helmholtz-Zentrum Berlin/D

P1-44 **Electrochemical deposition as an alternative for the spin coating preparation of active layers for quantum dot solar cells**
A. Gräfe, T. Lässer, Universität Hamburg/D; K. Poulsen, F. Werner, C. Gimmler, Centrum für Angewandte Nanotechnologie GmbH, Hamburg/D; H. Weller, Universität Hamburg/D

P1-45 **Shape-controlled synthesis and near-infrared optical properties of vacancy-doped copper chalcogenide nanocrystals**
I. Kriegel, J. Rodríguez-Fernández, A. Wisnet, Universität München/D; H. Zhang, Ohio University, Athens, OH/USA; A. Dubavik, C. Waurisch, A. Eychmüller, TU Dresden/D; A.O. Govorov, Ohio University, Athens, OH/USA; J. Feldmann, Universität München/D

P1-46 **Tuning the reactivity of a Cu/ZnO nanocatalyst via gas phase pressure**
J. Frenzel, L. Martinez-Suarez, Ruhr-Universität Bochum/D; B. Meyer, Universität Erlangen-Nürnberg/D; D. Marx, Ruhr-Universität Bochum/D

P1-47 **Photoluminescent carbon dots by a green microwave-assisted synthesis**
T.T. Meiling, Universität Potsdam/D; I. Bald, Universität Potsdam und BAM Bundesanstalt für Materialforschung und -prüfung, Berlin/D; P.J. Cywinski, Fraunhofer-Institut für Angewandte Polymerforschung, Potsdam/D; H.-G. Löhmannsröben, Universität Potsdam/D

P1-48 **Ostwald ripening, focussing and destruction of $NaREF_4$ nanocrystals of RE = Ce, Pr and Nd**
A. Naduviledathu Raj, M. Haase, Universität Osnabrück/D

P1-49 **Copper colloids by laser ablation of suspensions**
C.A. Schaumberg, Humboldt-Universität zu Berlin/D; M. Wollgarten, Helmholtz-Zentrum Berlin für Materialien und Energie/D; K. Rademann, Humboldt-Universität zu Berlin/D

P1-50 **Synthesis and optical properties of polar nano-niobatecrystals**
A. Düttmann, M. Imlau, M. Imwalle, K. Kömpe, Universität Osnabrück/D

P1-51 **Highly viscous sugar-microemulsions for nanofoams via continuous extrusion processes**
S. Lülsdorf, R. Oberhoffer, R. Strey, Universität zu Köln/D

P1-52 **Explaining the photoluminescence modulation of single semiconductor nanowires**
D. Behn, C. Strelow, T. Kipp, A. Mews, Universität Hamburg/D

P1-53 **Hydrogen-doping of nanostructured semiconductor oxides**
J. Idígoras, A. Márquez, J.A. Anta, Universidad Pablo de Olavide, Sevilla/E; T. Berger, Universität Salzburg/A

P1-54 **Nonlinear optical response of size-selected supported metal clusters: Ag_n (n<55)**
P. Heister, T. Lünskens, A. Kartouzian, U. Heiz, TU München, Garching/D

P1-55 **PbS nanosheet transistors**
S. Dogan, T. Bielewicz, C. Klinke, Universität Hamburg/D

P1-56 **Shape control of PbS nanoparticles**
F. Gerdes, T. Bielewicz, C. Klinke, Universität Hamburg/D

P1-57 **Tailoring the geometry of ultrathin PbS nanosheets and their applications as field effect transistors**
T. Bielewicz, S. Dogan, C. Klinke, Universität Hamburg/D

P1-58 **UV-Vis spectroscopy studies of photoswitching of azobenzene-containing molecular platform adlayers on Au and quartz**
N. Krekiehn, S. Kuhn, M. Müller, U. Jung, J. Kubitschke, S. Ulrich, F. Otte, R. Herges, O. Magnussen, Universität zu Kiel/D

P1-59 **Controlled energy-selected electron capture and release in double quantum dots**
F.M. Pont, A. Bande, L.S. Cederbaum, Universität Heidelberg/D

P1-60 **Synthesis and control of emission properties of highly luminescent, cadmium free quantum dots**
C. Meerbach, C. Rengers, Z. Wang, N. Gaponik, A. Eychmüller, TU Dresden/D

P1-61 **The idiosyncrasies of M_2(dhtp)**
A. Mundstock, J. Caro, Universität Hannover/D; C. Chmelik, Universität Leipzig/D; U. Böhme, M. Hartmann, Universität Erlangen-Nürnberg/D; P.D.C. Dietzel, Universität Bergen/N

P1-62 **Synthesis of CdSe/CdS core/shell semiconductor nanorods, silicacoating and modification with gold-nanoparticles**
A. Nielsen, E. Kröger, A. Hinsch, Universität Hamburg/D

P1-63 **The significance of bicontinuous structures for nanofoams**
M. Hermes, R. Oberhoffer, R. Strey, Universität zu Köln/D

P1-64 **Synthesis and characterization of of two dimensional Tin(II)sulfide nanosheets**
M. Kobylinski, A. Mews, Universität Hamburg/D

P1-65 **Particle size effects in MgO dissolution**
J. Schneider, Universität Salzburg/A; S. Baumann, A. Sternig, A. Gheisi, Universität Erlangen-Nürnberg/D; S. Stankic, Institut des Nanosciences de Paris/F; H. Grönbeck, Chalmers University of Technology, Göteborg/S; O. Diwald, Universität Salzburg/A

P1-66 **Nanofoams from polymer-acetone gels**
K. Singh Ghotra, L. Grassberger, R. Strey, Universität zu Köln/D

P1-67 **Comparing temperature dependences of the solubility of alkanes and alkenes in imidazolium-based ionic liquids**
M. Namayandeh Jorabchi, D. Kerlé, D. Paschek, R. Ludwig, University of Rostock/D

P1-68 **Mapping nanomechanical properties of hydrated type-I collagen fibrils with MUSIC mode AFM**
J. Hann, D. Voigt, E.-C. Spitzner, TU Chemnitz/D; A. Bernstein, Universitätsklinikum Freiburg/D; R. Magerle, TU Chemnitz/D

P1-69 **Continuous flow synthesis for the production of semiconducting nanocrystals**
T. Jochum, D. Ness, J. Niehaus, Centrum für Angewandte Nanotechnologie GmbH, Hamburg/D; H. Weller, Universität Hamburg/D

P1-70 **Characterization of polymersomes and their enzymatic degradation by time correlated single photon counting (TCSPC)**
S. Handschuh-Wang, K.S. Tücking, H. Schönherr, Universität Siegen/D

P1-71 **Excitable oil droplets – FRET across a liquid-liquid phase boundary**
L. Bahrig, L.J. Gruner, K. Ostermann, S.G. Hickey, G. Rödel, A. Eychmüller, TU Dresden/D

P1-72 **Ionic conductivity of ultra-thin polyelectrolyte multilayer films – from bulk properties to interface properties**
S. Schulze, D. Hühn, V. Wesp, M. Schäfer, W.J. Parak, K.-M. Weitzel, Universität Marburg/D

P1-73 **Fabrication of carbon nanomembranes by helium ion lithography**
X. Zhang, H. Vieker, A. Beyer, A. Gölzhäuser, Universität Bielefeld/D

P1-74 **Technical microemulsions as reaction media in organic synthesis with focus on catalyst recovery and product isolation**
B. Yesilyurt, J. Yang, J. Wölk, T. Sottmann, R. Strey, Universität zu Köln/D

P1-75 **ToF-SIMS investigations of oxygen tracer diffusion in Fe-doped $SrTiO_3$ and Sr-doped $LaFeO_3$thin layers**
K. Langer-Hansel, S. Huber, S. Kogler, H. Hutter, J. Fleig, TU Wien/A

P1-76 **On the transition from ballistic to electro-diffusive transport in free-standing nanometer sized polymer membranes**
S. Schulze, K.-M. Weitzel, Universität Marburg/D

P1-77 **Detection of light-induced magnetization of pentacene in *p*-terphenyl by magnetic-force microscopy**
K. Kartaschew, Ruhr-Universität Bochum/D; A.M. Rostas, Universität Freiburg/D; E. Bründermann, Ruhr-Universität Bochum/D; E. Schleicher, S. Weber, Universität Freiburg/D; M. Havenith, Ruhr-Universität Bochum/D

P1-78 **Investigation of nanoparticle growth kinetics in a dusty acetylene plasma**
A. Hinz, T. Strunskus, E. von Wahl, H. Kersten, Universität zu Kiel/D

P1-79 **Mixed $Zn_xCd_{1-x}S$ nanoparticles for photocatalytic water splitting**
A. Litke, J.P. Hofmann, E.J.M. Hensen, Eindhoven University of Technology/NL

P1-80 **Electrochemistry on the nanometer scale – from the interface to the interphase**
V. Wesp, J. Zakel, M. Schäfer, K.-M. Weitzel, Universität Marburg/D

P1-81 **Probing structural aspects of <10 nm-sized young soot**
M. Schenk, Universität Bielefeld/D; S. Lieb, University of Southern California, Los Angeles, CA/USA; H. Vieker, A. Beyer, A. Gölzhäuser, Universität Bielefeld/D; H. Wang, Stanford University, CA/USA; K. Köhse-Höinghaus, Universität Bielefeld/D

P1-82 **Gas permeation of carbon nanomembranes**
A. Beyer, M. Ai, Universität Bielefeld/D; S. Shishatskiy, J. Wind, Helmholtz-Zentrum Geesthacht/D; X. Zhang, C.T. Nottbohm, N. Mellech, A. Winter, H. Vieker, Universität Bielefeld/D; J. Qiu, DSM, Geleen/NL; K.-J. Dietz, A. Gölzhäuser, Universität Bielefeld/D

P1-83 **Light-matter interaction of chemically synthesized nanostructures in rolled-up microtube resonators in flow-channels**
S. Kietzmann, C. Strelow, Universität Hamburg/D; A. Schramm, J.-P. Pettinen, T.V. Hakkarainen, Tampere University of Technology/FIN; A. Mews, T. Kipp, Universität Hamburg/D

P1-84 **New milestones in scanning probe microscopy: Graphene on Ir(111), Rh(111) and Ru(0001) studied by DFT, STM and NC-AFM**
M. Meyer, SPECS Surface Nano Analysis GmbH, Berlin/D; E. Voloshina, Humboldt-Universität zu Berlin/D; Y. Dedkov, A. Thissen, SPECS Surface Nano Analysis GmbH, Berlin/D

P1-85 **Investigation of particle interaction on the nanometer scale**
L. Bressel, R. Hass, M. Münzberg, O. Reich, Universität Potsdam/D

P1-86 **Highly stable and homogeneous hydrogels and aerogels from semiconductor nanorods**
S. Sanchez-Paradinas, S. Friebe, D. Warwas, N.C. Bigall, Universität Hannover/D

P1-87 **Large-pore mesoporous silica nanoparticles for chromobody delivery**
H.-Y. Chiu, W. Deng, S. Niedermayer, H. Leonhardt, T. Bein, Universität München/D

P1-88 ***In situ* synthesis of amphiphiles at the internal interface in UV-sensitive microemulsions**
T. Schreiner, N. Wulff, A. Griesbeck, R. Strey, Universität zu Köln/D

P1-89 **Superstructures from metal and semiconductor nanoparticles for sensing applications**
S. Naskar, N. Bigall, Universität Hannover/D

P1-90 **Localized surface plasmon resonances in degenerately doped semiconductor nanoparticles**
D. Dorfs, Universität Hannover/D

P1-91 **Synthesis and characterisation of plasmonic superstructures from colloidal nanocrystals**
A. Knebel, N. Bigall, Universität Hannover/D

P1-92 **Cryogels, aerogels and xerogels from metal nanoparticles**
A. Freytag, N.C. Bigall, Universität Hannover/D

P1-93 **Effect of self- assembly of CuO nanocrystals on their catalysis of bagasse pyrolysis**
A. Mohsen, Freie Universität Berlin/D; M. Emara, T. Kassem, Alexandria University/ET; M. Mousa, Benha University/ET

P1-94 **Targeted drug delivery in cancer cells with red-light photoactivated mesoporous silica nanoparticles**
A. Schmidt, C. Argyo, S. Mackowiak, V. Weiss, C. von Schirnding, T. Bein, C. Bräuchle, University of Munich/D

P1-95 **Theoretical studies of thermodynamic properties of clusters**
Y. Dong, M. Springborg, Universität des Saarlandes, Saarbrücken/D

P1-96 **Plasmonic AuCu bimetallic nanoparticles by microwave-assisted synthesis**
W. M. Abbott, Trinity College Dublin/IRL; T. Som, R. Wendt, Humboldt-University Berlin/D; F. Emmerling, BAM Federal Institute of Materials Research and Testing, Berlin/D; K. Rademann, Humboldt-University Berlin/D

P1-97 **Towards a better understanding of the gold-sulfur interface by spectroscopic investigation of monolayer protected gold-nanoclusters**
B. Varnholt, P. Oulevey, I. Dolamic, T. Bürgi, University of Geneva/CH

P1-98 **Synthesis and optimization of colloidal quantum dots for thin film transistor (TFT) applications**
V. Sayevich, N. Gaponik, A. Eychmüller, TU Dresden/D

P1-99 **Tunable plasmonics-based SERS templates**
M. Chekini, P. Oulevey, T. Bürgi, University of Geneva/CH

P1-100 **Pseudo-rotational epitaxy of octadecyltrichlorosilane monolayers on sapphire (001)**
H.-G. Steinrück, A. Magerl, Universität Erlangen-Nürnberg/D; M. Deutsch, Bar-Ilan University, Ramat-Gan/IL; B. Ocko, Brookhaven National Laboratory, Upton, NY/USA

P1-101 **Electronic structure of nanodiamonds dispersed in water measured by soft X-ray spectroscopies**
M. Pflüger, Freie Universität Berlin/D; T. Petit, Helmholtz-Zentrum Berlin/D; D. Tolksdorf, Freie Universität Berlin/D; K. Aziz-Lange, Helmholtz-Zentrum Berlin/D; E.F. Aziz, Freie Universität Berlin/D

P1-102 **Self-assembly of gold nanoparticles in green solvents**
V.S. Raghuwanshi, O. Ochmann, K. Rademann, Humboldt-Universität zu Berlin/D; A. Hoell, Helmholtz Zentrum Berlin für Materialien und Energie/D

P1-103 **Synthesis, characterisation and applications of gold nanorods**
S. Kittler, S.G. Hickey, T. Wolff, A. Eychmüller, TU Dresden/D

P1-104 **Synthesis of radioactively doped CdSe/CdS/ZnS QDs for *in vivo* experiments**
G.M. Stachowski, C. Bauer, S.G. Hickey, TU Dresden/D; D. Bargheer, P. Nielsen, J. Heeren, Universitätsklinikum Hamburg-Eppendorf/D; A. Eychmüller, TU Dresden/D

P1-105 **Electroactive covalent organic frameworks for organic photovoltaics**
M. Calik, D. Medina, F. Auras, V. Werner, M. Dogru, P. Knochel, T. Bein, Universität München/D

P1-106 **Elucidating the formation of heterodimeric particles via molecular dynamics simulations and experiments**
J.-H. Wittmann, A. Bushmelev, A. Schmidt, R. Strey, Universität zu Köln/D

P1-107 **The hydrogen evolution reaction at Pd nanoparticles electrodeposited on a new type of single-crystalline Ru(0001) substrate**
H. Sternschulte, B. Huber, L. Asen, O. Schneider, TU München, Garching/D; M. Weinl, M. Schreck, Universität Augsburg/D

P1-108 **Scanning probe microscopy studies of intercalation mechanisms in battery electrode materials**
L. Seidl, J. Ma, O. Schneider, U. Stimming, TU München/D

P1-109 **The electronic interaction of supported sub-nanometer Pt clusters on HOPG and ITO with water studied by SXPS**
J. Klett, R. Schäfer, B. Kaiser, W. Jaegermann, TU Darmstadt/D

P1-110 **pH-responsive carbonic anhydrase-based valves on mesoporous silica nanoparticles for controlled drug delivery applications**
C. Argyo, S. Datz, V. Weiss, M. Gattner, T. Carell, C. Bräuchle, T. Bein, Universität München/D

P1-111 **Surface scattering of $(CO_2)_n$ off Si(111)/SiO_2**
B.G. Chen, W. Christen, Humboldt-Universität zu Berlin/D

P1-112 **MOF-based core-shell nanoparticles for drug delivery**
A. Zimpel, T. Preiss, M. Hossann, L.H. Lindner, J. Rädler, T. Bein, S. Wuttke, Universität München/D

P1-113 **Colloidal particles based on weak polyelectrolytes allow pH-tunable release in drug delivery systems**
S. Orban, M. Häuser, K. Langer, M. Schönhoff, Universität Münster/D

P1-114 **Photoactive covalent organic frameworks showing light-induced charge transfer towards included acceptors**
D. Medina, V. Werner, F. Auras, M. Dogru, J. Schuster, S. Linke, M. Döblinger, P. Knochel, T. Bein, Universität München/D

P1-115 **Estimation of critical data and phase diagrams of pure molten metals**
W. Schröer, Universität Bremen/D; G. Pottlacher, TU Graz/A

P1-116 **Formation kinetics of oil-rich nonionic microemulsions and the influence of additives**
H. Klemmer, C. Harbauer, T. Sottmann, R. Strey, Universität zu Köln/D; I. Grillo, Institut Laue Langevin, Grenoble/F

P1-117 **Graphene based gas and vapor sensors**
V. Khomenko, R. Dittrich, Y. Joseph, TU Bergakademie Freiberg/D

P1-118 **MFI and BEA zeolite membranes for gas separation**
F. Selbmann, C. Hecker, G. Tomandl, Y. Joseph, TU Bergakademie Freiberg/D

P1-119 **Optical and electrical characterization of metallic nanoparticles embedded in Er^{3+} doped ZrO_2 sol-gel layers**
A. Sabelfeld, S. Seidel, Y. Joseph, J. Heitmann, TU Bergakademie Freiberg/D

P1-120 **Noble metal nanoparticle organic composites for chemical sensing**
T. Tauchnitz, Y. Daskal, R. Dittrich, Y. Joseph, TU Bergakademie Freiberg/D

P1-121 **Electrochemical characterization of semiconductor nanoparticles**
J. Poppe, S.G. Hickey, A. Eychmüller, TU Dresden/D

P1-122 **Aerogels from CdTe and noble metal nanoparticles: Tailoring the semiconductor metal interface**
B. Märker, T. Hendel, K. Rademann, Humboldt-University Berlin/D

P1-123 **Gas phase modeling of the catalytically active centers in iron sulfur proteins**
S.M. Lang, H. Heim, T.M. Bernhardt, Universität Ulm/D

P1-124 **MUSIC mode atomic force microscopy and subsurface imaging of macromolecular nanostructures**
R. Magerle, E.-C. Spitzner, C. Riesch, M. Zerson, J. Hann, D. Voigt, J. Brade, TU Chemnitz/D

P1-125 **CdSe/CdS based quantum-dots-quantum-rods for *in vivo* and *in vitro* Imaging**
C. Wolter, J. Dimitrijevic, Universität Hamburg/D; L. Krapf, Universität Lübeck/D; C. Schmidtke, J. Merkl, T. Jochum, A. Kornowski, Universität Hamburg/D; A. Schüth, Universität Lübeck/D; A. Gebert, Universitätsklinikum Jena/D; G. Hüttmann, Universität Lübeck/D; T. Vossmeyer, H. Weller, Universität Hamburg/D

P1-126 **Interfacing quantum dots and graphitic surfaces with Cl-based atomic ligands**
C. Palencia Ramirez, University of Hamburg/D; F. Iacono, Universidad Autónoma de Madrid/E; L. de la Cueva, IMDEA Nanoscience, Madrid/E; M. Meyns, University of Hamburg/D; L. Terracciano, Universidad Autónoma de Madrid/E; A. Vollmer, Helmholtz Zentrum Berlin für Materialien und Energie/D; M.J. de la Mata, Universidad Autónoma de Madrid/E; C. Klinke, University of Hamburg/D; J.M. Gallego, CSIC and IMDEA Nanoscience, Madrid/E; B.H. Juárez, R. Otero, Universidad Autónoma de Madrid and IMDEA Nanoscience, Madrid/E

P1-127 **Time resolved photoelectron spectroscopy of solvated electrons generated by nanodiamonds in water**
D. Tolksdorf, Freie Universität Berlin und Helmholtz-Zentrum Berlin/D; T. Petit, Helmholtz-Zentrum Berlin/D; J. Metje, A. Kothe, I.Y. Kiyan, E.F. Aziz, Freie Universität Berlin und Helmholtz-Zentrum Berlin/D

P1-128 **Multivalent Interactions of amino-functionalized silica nanoparticles with different structured gold surfaces**
M. Schmudde, C. Grunewald, C. Noufele, J. Grabowski, T. Risse, C. Graf, Freie Universität Berlin/D

P1-129 **Investigation of particle diffusion in porous media by dynamic light scattering**
B. Over, B. Rathke, S. Will, Universität Bremen/D

P1-130 **Spontaneous growth of magnesium hydroxide needles at ambient conditions**
A.R. Gheisi, A.K. Sternig, M. Rangus, Universität Erlangen-Nürnberg/D; G. Redhammer, Universität Salzburg/A; M. Hartmann, Universität Erlangen-Nürnberg/D; O. Diwald, Universität Salzburg/A

P1-131 **Investigation of the formation, microstructure and dynamic properties of mechanosynthesized ceramic materials performed by NMR spectroscopy**
A. Düvel, P. Heitjans, Universität Hannover/D

P1-132 **Mixed aerogels from metal and semiconductor nanoparticles**
T. Hendel, Humboldt-Universität zu Berlin/D; A. Eychmüller, TU Dresden/D; K. Rademann, Humboldt-Universität zu Berlin/D

P1-133 **Glycoconjugated amphiphilic polymers for the encapsulation of nanoparticles**
C. Schmidtke, A.-M. Kreuziger, D. Alpers, A. Jacobsen, Y. Leshch, J. Ostermann, J. Thiem, H. Weller, Humboldt-University Berlin/D

P1-134 **Controlling the shape of evaporating droplets by ionic strength: Formation of highly anisometric silica supraparticles**
M. Sperling, TU Berlin/D; O.D. Velev, North Carolina State University, Raleigh, NC/USA; M. Gradzielski, TU Berlin/D

P1-135 **Simulation of the nanoindentation process of monolayer MoS_2 sheets**
T. Lorenz, J.-O. Joswig, G. Seifert, TU Dresden/D

P1-136 **Kinetics of pressure induced structural changes in near-/super-critical CO_2-microemulsions**
A. Müller, Y. Pütz, L. Grassberger, R. Oberhoffer, N. Becker, R. Strey, Universität zu Köln/D; A. Wiedenmann, Institut Laue-Langevin, Grenoble/F; T. Sottmann, Universität Stuttgart/D

P1-137 **Study of water adsorption and capillary formation on nanoparticle layers by combined *in-situ* FT-IR reflection spectroscopy – QCM-D set-up**
B. Torun, C. Kunze, Universität Paderborn/D; C. Zhang, T.D. Kühne, Universität Mainz/D; G. Grundmeier, Universität Paderborn/D

P1-138 **The surface chemistry of water-soluble CdTe and CdHgTe nanocrystals and its influence on stability and emission properties**
S. Leubner, TU Dresden/D; S. Hatami, BAM Bundesanstalt für Materialforschung und -prüfung, Berlin/D; T. Lorenz, J.-O. Joswig, N. Gaponik, TU Dresden/D; U. Resch-Genger, BAM Bundesanstalt für Materialforschung und -prüfung, Berlin/D; A. Eychmüller, TU Dresden/D

P1-139 **Water ice nanoparticles: Size and temperature effects on the mid-infrared spectrum**
C. Medcraft, D. McNaughton, C.D. Thompson, Monash University, Victoria/AUS; D.R.T. Appadoo, Australian Synchrotron, Victoria/AUS; S. Bauerecker, TU Braunschweig/D; E.B. Robertson, La Trobe University, Victoria/AUS

P1-140 **Synthesis of monodisperse gadolinium oxide- and mixed gadolinium / iron oxide-nanoparticles as novel type of MRT contrast agents**
C. Goroncy, M. Schmudde, C. Kästner, M. Gruner, C. Graf, Freie Universität Berlin/D

P1-141 **Von-Hamos spectrometer for time resolved X-ray Raman spectroscopy at XFEL and PETRA III**
M. Harder, TU Dortmund und DESY, Hamburg/D; M. Tolan, C. Sternemann, T. Bühning, TU Dortmund/D; H. Yavas, DESY, Hamburg/D; C. Bressler, W. Gawelda, A. Galler, T. Assefa, A. Britz, European XFEL GmbH, Hamburg/D; M. Wilke, C. Schmidt, S. Jahn, Deutsches GeoForschungsZentrum, Potsdam/D

P1-142 ***In situ* investigations of formation and growth mechanisms of iron oxide nanoparticles by microwave-assisted solvothermal synthesis**
R. Wendt, Humboldt-Universität zu Berlin/D; M. Wollgarten, Helmholtz-Zentrum Berlin für Materialien und Energie/D; K. Rademann, Humboldt-Universität zu Berlin/D

P1-143 **Structure analysis of CdTe nanoparticles with contrast varying small angle scattering experiments (SAXS, ASAXS, SANS)**
E. Gericke, Helmholtz Zentrum Berlin für Energie und Materialien/D; T. Hendel, Humboldt-Universität zu Berlin/D; A. Eychmüller, TU Dresden/D; A. Hoell, Helmholtz Zentrum Berlin für Energie und Materialien/D; K. Rademann, Humboldt-Universität zu Berlin/D

P1-144 **Synthesis strategy for amorphous mesoporous apatite nanoparticles**
C. von Schirnding, Universität München/D

P1-145 **Carbon nanotube fluorescence as a sensor for nanosurface kinetics**
F. Schöppler, F. Bergler, T. Hertel, Universität Würzburg/D

P1-146 **Nanostructured metallic aerogels: High performance electroctrocatalysts for fuel cell reactions**
W. Liu, A.-K. Herrmann, TU Dresden/D; P. Rodriguez, University of Birmingham/UK; T.J. Schmidt, Paul Scherrer Institute, Villigen/CH; A. Eychmüller, TU Dresden/D

P1-147 **Pd aerogel-based bioelectrocatalysis and biofuel cells**
D. Wen, A.-K. Herrmann, A. Eychmüller, TU Dresden/D

P1-148 **Parameter influences on particle growth, colloidal stability and final size distribution of gold nanoparticles**
S. Witte, M. Wuithschick, J. Polte, Humboldt-Universität zu Berlin/D

P1-149 **Size control of „naked2 Pd nanoparticles in aqueous solution**
F. Kettemann, M. Wuithschick, J. Polte, Humboldt-Universität zu Berlin/D

P1-150 **Turkevich revisited: 3 key questions answered for an old gold nanoparticle synthesis**
M. Wuithschick, A. Birnbaum, K. Rademann, J. Polte, Humboldt-Universität zu Berlin/D

Biophysical chemistry

P2-01 **Untersuchung der Wechselwirkungen von 3-Hydroxybenzo[a]pyren mit verschiedenen Antikörpern mittels Fluorescence-Line-Narrowing-Spektroskopie**
U. Eisold, A. Kupstat, D. Klier, P.-A. Primus, Universität Potsdam/D; M. Pschenitza, R. Niessner, D. Knopp, TU München/D; M.U. Kumke, Universität Potsdam/D

P2-02 **Distinct dynamic signatures of amyloidogenic insulin revealed by neutron spin echo spectroscopy**
M. Erlkamp, S. Grobelny, TU Dortmund/D; A. Faraone, National Institute of Standards and Technology, Gaithersburg, MD/USA; C. Czeslik, R. Winter, TU Dortmund/D

P2-03 **Fluorescence lifetime correlation spectroscopy for the detection and quantification of copper(II)**
A. Grueter, A.M. Huynh, M. Finkler, G. Jung, Universität des Saarlandes, Saarbrücken/D

P2-04 **Terahertz spectroscopy of electrolyte solutions: Complex formation of iron(II) and iron(III) chloride**
F. Böhm, G. Schwaab, M. Havenith, Ruhr-Universität Bochum/D

P2-05 **Investigation of aqueous trimethylamine *N*-oxide solutions using terahertz spectroscopy**
L. Knake, G. Schwaab, M. Havenith, Ruhr-Universität Bochum/D

P2-06 **Thermodynamic, dynamic and solvational properties of PDEδ binding to farnesylated cysteine**
S. Suladze, TU Dortmund/D

P2-07 **THz spectroscopy of solvated amino acids**
D. Decka, G. Niehues, G. Schwaab, M. Havenith, Ruhr-Universität Bochum/D

P2-08 **Effect of pressure on enzymatic activities at the water-silica interface**
V. Schuabb, C. Czeslik, TU Dortmund/D

P2-09 **Nanosecond time-resolved UV/Vis spectroscopy on slowly recovering blue light sensors**
S. Oldemeyer, C. Thöhing, T. Kottke, Universität Bielefeld/D

P2-10 **Investigation of sulfate solutions using terahertz spectroscopy**
L. Grimmelsmann, F. Böhm, G. Schwaab, M. Havenith, Ruhr-Universität Bochum/D

P2-11 **Influence of temperature, pressure, and ionic strength on the structure and stability of tRNAphe**
C. Schuabb, R. Winter, TU Dortmund/D

P2-12 **Ubiquitin in crowded solutions: Solvation vs. excluded volume**
M. Senske, L. Törk, C. Herrmann, M. Havenith, S. Ebbinghaus, Ruhr-Universität Bochum/D

P2-13 **Spectroscopy of individual gold nanoparticles with different sizes and surface modifications**
T. Hadler, T. Kipp, A. Mews, Universität Hamburg/D

P2-14 **Computational study of an antifreeze protein and its interactions with ice and water**
S. Heckhausen, D. Paschek, R. Ludwig, Universität Rostock/D

P2-15 **Regulation of K-Ras membrane association: Calmodulin versus PDEδ**
B. Sperlich, S. Kapoor, S. Möbitz, TU Dortmund/D; G. Triola, H. Waldmann, MPI Dortmund/D; K. Weise, R. Winter, TU Dortmund/D

P2-16 **Stability of proteins confined in surface-functionalized mesoporous silica**
M. Kahse, M. Werner, G. Buntkowsky, R. Winter, TU Dortmund/D

P2-17 **Hydration dynamics of lipocalins in the light of THz spectroscopy**
J. Dielmann, H. Vondracek, Ruhr-Universität Bochum/D; M. Knipp, Max-Planck-Institut für chemische Energiekonversion, Mülheim an der Ruhr/D; M. Havenith, Ruhr-Universität Bochum/D

P2-18 **Illuminating the early signaling pathway of a fungal light-oxygen-voltage photoreceptor**
E. Peter, B. Dick, I. Stambolic, S. Baeurle, Universität Regensburg/D

P2-19 **Modeling solvent effects on X-ray spectroscopy with frozen density embedding**
M.D. Kundrat, A.J. Atkins, C.R. Jacob, Karlsruhe Institute of Technology/D

P2-20 **Growing up: High temperature and pressure foster micelle-to-vesicle transition in prebiotic amphiphilic mixtures**
S. Kapoor, M. Berghaus, S. Suladze, TU Dortmund/D; D. Prumbaum, Max Planck Institute for Molecular Physiology, Dortmund/D; S. Grobelny, A. Shtamm, P. Degen, TU Dortmund/D; S. Raunser, Max Planck Institute for Molecular Physiology, Dortmund/D; R. Winter, TU Dortmund/D

P2-21 **Ultrafast excited electronic state dynamics of covalently stacked adenine dimers**
M. Bohnsack, F.D. Sönnichsen, M.C. Stuhldreier, K. Röttger, F.E.E. Temps, Universität zu Kiel/D

P2-22 **Time-resolved 2D-IR spectroscopy on an artificial infrared label monitoring site-specific ultrafast dynamics in hemoglobin**
L.J.G.W. van Wilderen, D. Kern-Michler, H.M. Müller-Werkmeister, J. Bredenbeck, Universität Frankfurt/D

P2-23 **Electrochemical investigations of polymeric model membrane systems**
T. Werzer, Universität Wien/A; C. Zafiu, Universität für Bodenkultur, Wien/A; G. Trettenhahn, Universität Wien/A; E.-K. Sinner, Universität für Bodenkultur, Wien/A; W. Kautek, Universität Wien/A

P2-24 **Orientation of membrane bound Sar1 studied by infrared-reflection-absorption-spectroscopy**
C. Schwieger, Universität Halle-Wittenberg/D; A. Meister, K. Bacia, ZIK Halomem, Halle/D; A. Blume, Universität Halle-Wittenberg/D

Catalysis

P3-01 **Investigation of the photocatalytic activity of metal semiconductor nanostructures**
T. Kodanek, D. Dorfs, Universität Hannover/D

P3-02 **High energy resolution X-ray absorption and emission: New techniques to push the limits in hard X-ray catalysis research**
M. Bauer, Universität Paderborn/D

P3-03 **Model catalytic studies of liquid organic hydrogen carriers: Dehydrogenation and decomposition of dodecahydro-N-ethylcarbazole on Pt(111)**
M. Amende, C. Gleichweit, K. Werner, S. Schernich, W. Zhao, M.P.A. Lorenz, O. Höfert, C. Papp, M. Koch, P. Wasserscheid, M. Laurin, H.-P. Steinrück, J. Libuda, Universität Erlangen-Nürnberg/D

P3-04 **A comparative stopped-flow infrared-study on iron- and ruthenium catalysed dehydrogenation of formic acid**
E. Barsch, P. Sponholz, D. Mellmann, H. Junge, M. Beller, Leibniz-Institut für Katalyse e.V., Rostock/D; R. Ludwig, Universität Rostock/D

P3-05 ***In-situ* STM of the silver-catalyzed formation of ethylene epoxide**
J. Wintterlin, S. Böcklein, Universität München/D; S. Günther, TU München/D; R. Wyrwich, Universität München/D; T.O. Mentes, M.A. Nino, A. Locatelli, Elettra-Synchrotrone, Triest/I

P3-06 **Facing the pressure gap in catalytic selective alkane oxidation**
C. Heine, M. Hävecker, M. Eichelbaum, Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin/D; F. Rosowski, BASF SE, Ludwigshafen und TU Berlin/D; A. Trunschke, R. Schlögl, Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin/D

P3-07 **Operando DRIFTS on alkali salt-modified supported catalysts for methanol steam reforming**
A. Kaftan, M. Kusche, H. Niedermeyer, P. Wasserscheid, M. Laurin, J. Libuda, Universität Erlangen-Nürnberg/D

P3-08 **Water activation on manganese oxide clusters as model for the catalytically active cluster core of photosystem II**
I. Fleischer, S.M. Lang, T.M. Bernhardt, Universität Ulm/D

P3-09 **Investigation of adsorption and thermal evolution of O-functionalized aromatic molecules on Pt(111) and Pt(355)**
V. Schlykow, C. Wöckel, M. Weiß, Universität Leipzig/D; C. Gleichweit, C. Bronnbauer, K. Gotterbarm, H.-P. Steinrück, Universität Erlangen-Nürnberg/D; R. Denecke, Universität Leipzig/D

Chemical dynamics

P4-01 **Electron gun for diffraction experiments of controlled gas-phase molecules**
N.L.M. Müller, S. Trippel, T.G. Mullins, Center for Free-Electron Laser Science, DESY, Hamburg/D; J.S. Kienitz, University of Hamburg/D; K. Dlugolecki, J. Küpper, Center for Free-Electron Laser Science, DESY, Hamburg/D

P4-02 **Ultrafast vibrational dynamics of thiocyanate in liquid-to-supercritical light and heavy water**
D. Czurlok, J. Lindner, P. Vöhringer, Universität Bonn/D

P4-03 **Experimental and theoretical study of the reactions of OH radicals with N-methylformamide and N,N-dimethylformamide**
A.J.C. Bunkan, University of Oslo/N; J. Hetzler, Karlsruher Institut für Technologie/D; C.J. Nielsen, University of Oslo/N; M. Olzmann, Karlsruher Institut für Technologie/D

P4-04 **Rate constant of the reaction between CH_3O_2 and OH radicals**
E.P. Farago, B. Viskolcz, University Szeged/H; A. Bossolasco, Universidad Cordoba/RA; C. Schoemaecker, F. Fittschen, Université Lille 1, Villeneuve d'Ascq/F

P4-05 **Ultrafast dissociation dynamics of bromochloropropane following excitation in the vacuum-UV regime**
I. Halfpap, A.M. Fetyan, C. Raschpichler, J. Plenge, E. Rühl, Freie Universität Berlin/D

P4-06 **Magnetic field effect on delayed fluorescence in organic systems**
A. Wankmüller, G. Grampp, S. Landgraf, TU Graz/A; G. Angulo, Polish Academy of Sciences, Warsaw/PL

P4-07 **Photodynamics of $[HAgPtPOP]^{2-}$ and $[Ag_2PtPOP]^{2-}$**
S. Kruppa, Y. Nosenko, C. Riehn, B. Burgard, F. Rupp, R. Diller, TU Kaiserslautern/D

P4-08 **Temperature-dependent femtosecond spectroscopy reveals energy barriers in ultrafast electronic deactivation**
U.C. Stange, F. Temps, Universität zu Kiel/D

P4-09 **Quantitative high temperature detection of HNO and first direct measurement of the reaction HNO + O_2 behind shock waves**
N. Faßheber, G. Friedrichs, Universität zu Kiel/D

P4-10 **Excited-state dynamics of the 2-methylallyl radical**
J. Herterich, I. Fischer, Universität Würzburg/D

P4-11 **Control of photoionization and -dissociation yields in intense fs-laser fields – a systematic investigation of chirp effects**
N. Reusch, S. Griebe, K.-M. Weitzel, Universität Marburg/D

P4-12 **Investigation of three selected photoinitiators via femtosecond transient absorption spectroscopy, TD-DFT calculations and PLP-ESI-MS**
H.A. Ernst, E. Frick, D. Voll, Karlsruher Institut für Technologie/D; T.J.A. Wolf, Stanford University, CA/USA; C. Barner-Kowollik, A.-N. Unterreiner, Karlsruher Institut für Technologie/D

P4-13 **Geminate recombination dynamics of solvated electrons in liquid-to-supercritical fluids**
A. Gehrmann, J. Lindner, P. Vöhringer, Universität Bonn/D

P4-14 **Thermal relaxation of azobenzene glycosides**
J. Berkemeyer, Freie Universität Berlin/D; V. Chandrasekaran, T.K. Lindhorst, Universität zu Kiel/D; E. Rühl, Freie Universität Berlin/D

P4-15 **Temperature dependent reactions of nitrate and sulfate radicals with multifunctional organic compounds in aqueous solution**
L. Schöne, B. Stieger, C. Weller, H. Herrmann, Tropos Leibniz-Institut für Troposphärenforschung e.V., Leipzig/D

P4-16 **Glyoxal oxidation in aqueous solution: Spectroscopy and kinetics**
T. Schaefer, H. Herrmann, Tropos Leibniz-Institut für Troposphärenforschung e.V., Leipzig/D

P4-17 **Control of polymer structure with light**
D. Hintzen, K. Siefermann, Leibniz Institute of Surface Modification (IOM), Leipzig/D

P4-18 **Influence of spatial confinement on the dynamics of proton-transfer events**
E. Eisbein, T. Lorenz, G. Seifert, J.-O. Joswig, TU Dresden/D

P4-19 **Predictive modeling: Structure of a premixed 2-methylbutanol flame**
A. Lucassen, Sandia National Laboratories, Livermore, CA/USA; S. Park, King Abdullah University of Science and Technology, Thuwal/SAR; N. Hansen, Sandia National Laboratories, Livermore, CA/USA; S.M. Sarathy, King Abdullah University of Science and Technology, Thuwal/SAR

P4-20 **Ultrafast dynamics and polarisation dependence of solvated electrons in NaI aqueous solution**
A. Kothe, N. Engel, A. Moguilevski, M. Wilke, I.Y. Kiyan, E.F. Aziz, Helmholtz-Zentrum Berlin für Materialien und Energie und Freie Universität Berlin/D

Electrochemistry

P5-01 **Magnetic field assisted electroforming: From basic research to technical applications**
H. Natter, A. Jung, M. Weinmann, Universität des Saarlandes, Saarbrücken/D

P5-02 **Improving electrolyte systems by adding alkali sulfides**
A. Bonsa, A. Appelhagen, J.K. Lehmann, R. Ludwig, Universität Rostock/D

P5-03 **The structure of electrochemical electrode-electrolyte interfaces studied from first principles**
R. Tanglaw, X. Lin, F. Gossenberger, M. Naderian, S. Sakong, A. Groß, Universität Ulm und Helmholtz-Institut Ulm/D

P5-04 **Elektrochemie – auch eine Frage des Potenzials**
R. Rüffler, G. Job, Universität Hamburg/D

P5-05 **Investigation of size-selected clusters by STM at the solid-liquid interface**
S. Wieghold, M. Saracino, F. Esch, U. Heiz, TU München, Garching/D

P5-06 **Hot electron electrochemistry induced by femtosecond laser pulses**
H. Pöhl, O. Armbruster, J.P. Waclawek, G. Trettenhahn, W. Kautek, Universität Wien/A

P5-07 **Laser electrochemistry of plasma-oxidized aluminium alloys**
T.O. Nagy, U. Pacher, A. Giesriegl, W. Kautek, Universität Wien/A

P5-08 ***In situ* GISAXS and STM studies of nanoscale morphological changes on Pt(111) single crystals, induced by electrochemical oxidation/reduction**
B. Rahn, M. Ruge, J. Stettner, O. Magnussen, Universität zu Kiel/D

P5-09 ***In-situ* video STM studies of dynamic processes at metal/electrolyte interfaces**
R. Wen, B. Rahn, O. Magnussen, Universität zu Kiel/D

P5-10 **Potential induced nucleation of PbFBr crystals at the mercury-electrolyte interface**
S. Festersen, A. Elsen, B. Runge, C.T. Koops, Universität zu Kiel/D; B.M. Ocko, Brookhaven National Laboratory, Upton, NY/USA; M. Deutsch, Bar-Ilan University, Ramat-Gan/IL; O.H. Seeck, DESY, Hamburg/D; B.M. Murphy, O.M. Magnussen, Universität zu Kiel/D

P5-11 **The bombardment induced ion transport: Structure and composition dependence of the DC-conductivity in calcium-phosphate glasses**
J. Martin, D. Budina, J. Zakel, M. Schäfer, B. Roling, K.-M. Weitzel, Universität Marburg/D

P5-12 **Probing the potential energy surface for the proton equilibrium on gold**
M. Wessel, E. Spohr, Universität Duisburg-Essen/D

Energy storage and conversion

P6-01 **Investigation of anode and cathode reactions in HT-PEMFC using *in-situ* X-ray absorption spectroscopy (XAS)**
S. Kaserer, TU Darmstadt/D; C. Roth, Freie Universität Berlin/D

P6-02 **Die Guinness-Moleküle zur Kohlenhydratformel**
D. Borodin, M. Eckhoff, F. Hecker, K. Krüger, M. Levien, X.T. Nguyen, H. Preiß, L. Reuter, D. Rohleder, R.A. Schulz, J. Altnöder, M.A. Suhm, Universität Göttingen/D

P6-03 **Raman spectroscopy of alkyl chain isomerizations**
S. Bocklitz, Universität Göttingen/D; W.A. Herrebout, Universität Antwerpen/B; N.O.B. Lüttschwager, K.E. Otto, M. Heger, M.A. Suhm, Universität Göttingen/D

P6-04 **Liquid phase epitaxial growth of chiral surface mounted metal organic framework for enantioselective adsorption and separation**
Z. Gu, J. Jinxuan Liu, H. Gliemann, X. Stammer, O. Zybaylo, P. Weidler, C. Wöll, Karlsruhe Institute of Technology/D

P6-05 **The interaction of H_2 with Pt particles on a Sn-Ce-O mixed-oxide thin film**
A. Neitzel, Y. Lykhach, J. Libuda, Universität Erlangen-Nürnberg/D; V. Johanek, M. Vorokhta, T. Skála, N. Tsud, V. Matolín, Charles University, Prag/CZ; K.C. Prince, Sincrotrone Trieste SCpA/I

P6-06 **Effects of ligand removal from colloidal nanoparticles on catalytic performance**
L. Wittern, H. Heller, H. Weller, Universität Hamburg/D

P6-07 ***In situ*-Ramanmikroskopie an Kompositelektroden für Li-Batterien**
T. Groß, C. Hess, TU Darmstadt/D

P6-08 **Towards high performance organic solar cells: Multiscale molecular dynamics investigations of P3HT:diPBI blends**
M. Böckmann, N.L. Doltsinis, Universität Münster/D

P6-09 **Tin-based ternary oxide thin film photocatalysts**
C. Riedel, F. Oropeza, Imperial College London/UK; D. Slocombe, University of Oxford/UK; D.J. Payne, Imperial College London/UK

P6-10 **Stability of ZnO nanorod arrays in thin film Cu(In,Ga)Se_2 solar cells: A depth-resolved XPS study**
W. Ohm, W. Riedel, Freie Universität Berlin und Helmholtz-Zentrum Berlin für Materialien und Energie/D; Ü. Aksünger, W. Calvet, B. Höpfner, A. Steigert, I. Lauermann, S. Gledhill, Helmholtz-Zentrum Berlin für Materialien und Energie/D; M.Ch. Lux-Steiner, Freie Universität Berlin und Helmholtz-Zentrum Berlin für Materialien und Energie/D

P6-11 **Catalytic activity of carbon nanomaterials**
A. Neff, F. Lohmann, A. Varga, S. Naumov, K. Siefermann, Leibniz Institute of Surface Modification, Leipzig/D

P6-12 **Preparation and characterization of cobaltoxides as catalysts for electrochemical water splitting**
N. Weidler, B. Kaiser, J. Ursul, W. Jaegermann, TU Darmstadt/D

P6-13 **Li-ion mobility in Li-Al-Ti-P-O and Li-Al-Ge-P-O glass ceramics as fast Li-ion conductors studied by ^{7}Li NMR**
M. Scheuermann, M. Rohde, S. Indris, Karlsruher Institut für Technologie, Eggenstein-Leopoldshafen/D

Experimental methods

P7-01 **Charakterisierung chemischer und biotechnologischer Prozesse mittels faser-optischen Technologien**
O. Reich, L. Bressel, R. Hass, M. Münzberg, M. Sandmann, Universität Potsdam/D

P7-02 **Depth profiling of galvano-aluminium-nickel coatings on steel by UV and VIS laser-induced breakdown spectroscopy**
T.O. Nagy, U. Pacher, B. Bielec, W. Kautek, Universität Wien/A

P7-03 **Charakterisierung der Elektrosprayionisation durch Lichtstreuung, Fluoreszenz-Imaging und Ionenmobilitätsspektrometrie**
M. Zühlke, S. Rutkowski, Universität Potsdam/D; K. Zenichowski, Knauer Wissenschaftliche Geräte GmbH, Berlin/D; T. Beitz, H.-G. Löhmannsröben, Universität Potsdam/D

P7-04 **Ion pairing in protic ionic liquids probed by far infrared spectroscopy: The effects of solvent polarity and temperature**
P. Stange, K. Fumino, K. Wittler, W. Polet, Universität Rostock/D; V. Fossog, R. Hempelmann, Universität des Saarlandes, Saarbrücken/D; R. Ludwig, Universität Rostock/D

P7-05 **Phase-shift cavity ring-down spectroscopy using a linear cavity containing a fiber-based sample cell**
D. Munzke, M. Münzberg, M. Böhm, O. Reich, Universität Potsdam/D

P7-06 **The microwave spectrum of the odd isotope of ytterbium fluoride, ^{171}YbF**
J.-U. Grabow, Universität Hannover/D; Z. Glassman, R.J. Mawhorter, Pomona College, Claremont, CA/USA; A. Le, T.C. Steimle, Arizona State University, Tempe, AZ/USA

P7-07 **Short- and intermediate range structures in amorphous GeSbTe-materials studied by anomalous X-ray scattering**
J.R. Stellhorn, W.-C. Pilgrim, Universität Marburg/D; S. Hosokawa, Kumamoto University/J; B. Kaiser, TU Darmstadt/D

P7-08 **The phase behavior of mixtures of 1-alkyl-3-methylimidazonium bis(trifluoromethylsulfonyl)amides with n-alkyl-alcohols**
X. Shao, A. Granadero, W. Schröer, B. Rathke, Universität Bremen/D

P7-09 **Development of an *in-situ* electrochemical flowcell for soft X-ray absorption and emission spectroscopy**
C. Schwanke, K. Lange, Helmholtz-Zentrum Berlin/D

Interfaces

P8-01 **Differences between the contact angles on defined rough, homogeneous surfaces and flat, randomly heterogeneous surfaces analysed by HPDSA**
F. Heib, R. Hempelmann, K. Groß, M. Schmitt, Universität des Saarlandes, Saarbrücken/D

P8-02 **Introduction in the statistical evaluation of dynamic contact angles by using high-precision drop shape analysis (HPDSA)**
F. Heib, R. Hempelmann, K. Groß, M. Schmitt, Universität des Saarlandes, Saarbrücken/D

P8-03 **Statistical analysis using high-precision drop shape analysis (HPDSA) as novel approach for a reliable contact angle determination**
F. Heib, K. Groß, R. Hempelmann, M. Schmitt, Universität des Saarlandes, Saarbrücken/D

P8-04 **Influence of particle-particle interfaces on optical properties and oxygen depletion in In_2O_3 nanoparticle ensembles**
D. Thomele, Universität Salzburg/A; N. Siedl, P. Gügel, Universität Erlangen-Nürnberg/D; O. Diwald, Universität Salzburg/A

P8-05 **Interactions between the RTIL [C2C1Im][OTf] and Pd(111), well-ordered Al_2O_3, and supported Pd model catalysts studied by IR spectroscopy**
S. Schernich, D. Kostyshyn, V. Wagner, N. Taccardi, M. Laurin, P. Wasserscheid, J. Libuda, Universität Erlangen-Nürnberg/D

P8-06 **Interaction of pulse laser radiation of 532 nm with model pigment layers for medieval stone artefacts**
J. Colson, Universität Wien/A; J. Nimmrichter, Bundesdenkmalamt, Wien/A; W. Kautek, Universität Wien/A

P8-07 **Characterization of the adlayer formation of CO on the NaCl(100) surface based on diffuse LEED intensities**
J. Vogt, B. Vogt, Universität Magdeburg/D

P8-08 **Femtosecond and nanosecond pulse laser irradiation area dependence of the modification behaviour of steel, silicon and PMMA**
A. Naghilou, O. Armbruster, W. Kautek, Universität Wien/A

P8-09 **Nanoconfinement effects on hydrated excess protons in layered materials**
D. Muñoz-Santiburcio, C. Wittekindt, D. Marx, Ruhr-Universität Bochum/D

P8-10 **Guest molecules modulated electrical conductivity of surface grown metal organic frameworks (SURMOFs) studied by a mercury-drop method**
J. Liu, V. Mugnaini, Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen/D; C. Hung, University of Heidelberg/D; H. Gliemann, Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen/D; M. Zharnikov, University of Heidelberg/D; C. Wöll, Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen/D

P8-11 **La (III) loaded into $Cu_3(BTC)_2$ SURMOF: Identification of loading states by relative intensity of XRD peaks**
W. Guo, Karlsruhe Institute of Technology/D

P8-12 **UHV-IR spectroscopy study of carbon monoxide adsorption on cerium oxide surfaces**
C. Yang, M. Buchholz, F. Bebensee, J. Chen, A. Nefedov, C. Wöll, Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen/D

P8-13 **Initial oxidation of Ru(0001) on the mesoscale**
J.C. Goritzka, B. Herd, S. Rohrlack, H. Over, Universität Gießen/D; A. Pietzsch, J. Knudsen, J. Schnadt, N. Johansson, E. Lundgren, J.N. Andersen, University of Lund/S; J.I. Flege, Universität Bremen/D

P8-14 **Investigations of "surface nanobubbles" with combined atomic force microscopy and fluorescence lifetime imaging**
N. Hain, Universität Siegen/D; H. Schönherr, Universität Siegen/D

P8-15 **Surface-anchored metal-organic frameworks: Highly porous materials with stimulus responsive antifouling properties**
M.P. Arpa Sancet, M. Hanke, Universität Heidelberg/D; Z. Wang, Karlsruher Institut für Technologie/D; S. Bauer, Universität Heidelberg/D; C. Azucena, H.K. Arslan, M. Heinle, H. Gliemann, C. Wöll, Karlsruher Institut für Technologie/D; A. Rosenhahn, Ruhr-Universität Bochum/D

P8-16 **Electrochemically induced phase transition of dodecyl sulfate on Au(111): A time-resolved surface plasmon resonance study**
A.E. Timm, D. Nattland, R. Schuster, Karlsruher Institut für Technologie/D

P8-17 **2D-polymer superstructure dynamics on graphene mapped by ultrafast low-energy electron diffraction**
M. Gulde, S. Schweda, S. Schäfer, C. Ropers, Universität Göttingen/D

P8-18 **The evaporation of nanodroplet on a chemically heterogeneous substrate**
J. Zhang, F. Leory, F. Müller-Plathe, TU Darmstadt/D

P8-19 **An oxygen diffusion layer model for reactive wetting dynamics of silicon melt on silicon dioxide**
L.D. Alphei, V. Becker, R. Janhsen, C. Dobbe, J.A. Becker, Universität Hannover/D

Molecular structure

P9-01 **Solvent effects on the intramolecular conversion of $(CH_3)_3SCl$ to $(CH_3)_2S$ and CH_3Cl**
T. Lankau, C.H. Yu, National Tsing Hua University, Hsinchu/RC

P9-02 **Large amplitude motion in protonated methane via the POSflex model**
F. Uhl, L. Walewski, H. Forbert, D. Marx, Ruhr-Universität Bochum/D

P9-03 **Microsolvated protonated methane: Computing mid-infrared spectra and assigning vibrational modes**
A. Esser, H. Forbert, D. Marx, Ruhr-Universität Bochum/D

P9-04 **Hydrogen-bonded dimers of alcohols with nonpolar substituents: The role of LONDON-dispersion**
J. Altnöder, S. Oswald, M.A. Suhm, Universität Göttingen/D

P9-05 **The effect of ligand field symmetry on charge transfer process: X-ray absorption and emission investigation on Fe L edge of iron porphyrins**
M. Pohl, J. Xiao, R. Golnak, K. Atak, C. Schwanke, E. Suljoti, E. Aziz, Helmholtz-Zentrum Berlin/D

P9-06 **Hydrogen bonds between alcohols and alkenes**
R. Medel, M. Heger, M.A. Suhm, Universität Göttingen/D

P9-07 **Characterisation and control of cold chiral compounds**
C. Medcraft, T. Betz, V.A. Shubert, D. Schmitz, M. Schnell, Max-Planck-Institut für Struktur und Dynamik der Materie, Hamburg/D

P9-08 **Broadband microwave spectroscopy of biologically relevant complexes in the gas phase**
S. Zinn, T. Betz, M. Schnell, Max-Planck-Institut für Struktur und Dynamik der Materie, Hamburg/D

P9-09 **The structure-function relationship of monocyclic terpenes – A broadband rotational spectroscopy study**
D. Schmitz, V.A. Shubert, T. Betz, M. Schnell, Max-Planck-Institut für Struktur und Dynamik der Materie, Hamburg/D

P9-10 **Manipulating the motion of neutral polar molecules with microwave fields**
S. Merz, J.B. Graneek, T. Betz, Max-Planck-Institut für Struktur und Dynamik der Materie, Hamburg/D; N. Vanhaecke, Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin/D; G. Meijer, Radboud University Nijmegen/NL

P9-11 **Characterisation of dinuclear transition metal complexes by collision-induced dissociation studies and IRMPD spectroscopy**
M. Gaffga, J.M. Hewer, J. Lang, I. Munstein, W. Thiel, G. Niedner-Schatteburg, TU Kaiserslautern/D

P9-12 **Two color enhanced IRMPD spectroscopy of mononuclear Ag(I)/Cu(I)-bispyridine-complexes**
J.M. Hewer, M. Gaffga, Y. Nosenko, G. Niedner-Schatteburg, TU Kaiserslautern/D

P9-13 **Two color delay dependent IR probing of torsional isomerization in a $[AgL_1L_2]^+$ complex**
J. Lang, M. Gaffga, F. Menges, K. Muller, W. Thiel, G. Niedner-Schatteburg, TU Kaiserslautern/D

P9-14 **Theoretical rovibrational spectroscopy of C_3: A challenging problem**
B. Schröder, P. Sebald, R. Oswald, P. Botschwina, Universität Göttingen/D

P9-15 **Structure and dynamics of methanol in ionic liquids: On the validity of the Stokes-Einstein-Debye relation**
E. Herold, M. Strauch, D. Michalik, A. Appelhagen, R. Ludwig, Universität Rostock/D

P9-16 **Theoretical rovibrational spectroscopy of the molecular ions N_3^-, NO_2^+ and HC_3^+**
C. Stein, P. Sebald, R. Oswald, P. Botschwina, Universität Göttingen/D

P9-17 **The Raman spectroscopy of B≡B triple bonds**
H.-C. Schmitt, P. Constantinidis, I. Fischer, H. Braunschweig, T. Dellermann, W.C. Ewing, K. Hammond, J. Mies, Universität Würzburg/D; A. Vargas, University of Sussex, Brighton/UK

P9-18 **The shape of oxacycloheptane**
J.-H. Borter, D. Wachsmuth, M.K. Jahn, D.A. Dewald, J.-U. Grabow, Universität Hannover/D; A. Lesarri, Universidad de Valladolid/E

P9-19 **Structural investigations on isolated 7-hydroxy-4-methylcoumarin aggregates in different electronic states by combined IR/UV spectroscopy**
A. Stamm, M. Weiler, K. Schwing, M. Gerhards, TU Kaiserslautern/D

P9-20 **IR and NIR spectroscopy on isolated ionic cobalt(ethanol) and nickel(ethanol) clusters**
M. Becherer, T.C. Martin, M. Gerhards, TU Kaiserslautern/D; A. Kubas, K. Fink, Karlsruher Institut für Technologie/D; W. Jin, G. Lefkidis, W. Hübner, TU Kaiserslautern/D

P9-21 **The trans conformation of (-)-lupinine**
M. Jahn, D. Dewald, J.-U. Grabow, Universität Hannover/D; V. López, A. Lesarri, Universidad de Valladolid/E; E.J. Cocinero, Universidad del País Vasco, Leioa/E

Polymers and soft matter

P10-01 **Columnar liquid crystals based on tristriazolotriazines**
T. Rieth, S. Glang, H. Detert, Universität Mainz/D

P10-02 **Direction dependent freezing of an inverse ferrofluid by means of X-ray photon correlation spectroscopy**
C. Passow, Universität Rostock/D; B. Fischer, M. Sprung, Hasylab, DESY, Hamburg/D; M. Köckerling, J. Wagner, Universität Rostock/D

P10-03 **Synthesis and characterisation of radiation-curing coatings as materials to study influences on heat transfer and crystallisation fouling**
K. Groß, R. Hempelmann, M. Schmitt, F. Heib, Universität des Saarlandes, Saarbrücken/D

P10-04 **Hydrodynamic interactions in suspensions of highly charged polymer particles**
F. Ziegert, A. Nack, C. Passow, J. Wagner, Universität Rostock/D

P10-05 **Fabrication and bio-application of uniform gel coatings by conversion of surface-anchored metal-organic Frameworks**
M. Tsotsalas, J. Liu, B. Tettmann, S. Grosjean, A. Shahnas, Z. Wang, C. Azucena, Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen/D; M. Addicoat, T. Heine, University of Bremen/D; J. Lahann, J. Overhage, S. Bräse, H. Gliemann, C. Wöll, Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen/D

Theoretical methods

P11-01 **CPMD simulation of the reaction of oxygen with aluminium**
M. Schulte, Universität München/D; I. Frank, Universität Hannover/D

P11-02 **On the thermodynamic limit for responses to static electromagnetic fields**
M. Springborg, University of Saarland, Saarbrücken/D; B. Kirtman, University of California, Santa Barbara, CA/USA

P11-03 **Development of a neural network potential for protonated water clusters**
S. Kondati Natarajan, T. Morawietz, J. Behler, Ruhr-Universität Bochum/D

P11-04 **Solvation effects on chemical shifts by integral equation theory**
R. Frach, S.M. Kast, TU Dortmund/D

P11-05 **The potential of mean force in 3D RISM integral equation theory**
F. Mrugalla, L.M. Henkes, C. Schulz, S.M. Kast, TU Dortmund/D

P11-06 **Universality properties of bridge functions for liquids and solutions**
D. Tomazic, M. Urban, S.M. Kast, TU Dortmund/D

P11-07 **Atomistic molecular dynamics simulations of amorphous ice**
M. Jehser, Universität Wien/A; M. Seidl, T. Loerting, Universität Innsbruck/A; G. Zifferer, Universität Wien/A

P11-08 **Elektronisch induzierte Instabilitäten in flüssigen Alkalimetallen**
W.-C. Pilgrim, D. Szubrin, Universität Marburg/D; G. Franz, Hochschule München/D

P11-09 **Molecular dynamics simulation of the LCST shifting of modified PNIPAM**
Y. Yang, TU Darmstadt/D; G. Balasubramanian, Iowa State University, Ames, IA/USA; M. Böhm, F. Müller-Plathe, TU Darmstadt/D

P11-10 **Equilibria between solvent-shared ion pairs and contact ion pairs in mixtures of protic ionic liquids with water**
D. Paschek, B. Golub, K. Fumino, R. Ludwig, Universität Rostock/D

Thursday, 29 May 2014

19:30 – 22.00 **Welcome Reception** (Foyer Plenary Room "Chemiehörsaal A")

Admission is free, but advance online registration is requested.
Please tick the appropriate box on the online registration form.

Friday, 30 May 2014

10:30 – 12:30 **Barkassenfahrt (boat trip) through Hamburg Harbour and "Speicherstadt"** (Language: German)

Price: 30 € (incl. 19% VAT)
The number of participants is limited to 35 persons, minimum number of participants 25.

Please register online before 15 April 2014.

PLEASE NOTE: Tickets for the Guided Tour can be cancelled without charges before 15 April 2014. Cancellations received thereafter will not be eligible for any refund.

12:00 **Women´s Networking Lunch**
Institute of Physical Chemistry, Grindelallee 117, 1st floor, Room 160

Price: 10 € (incl. 19% VAT) nominal charge
The number of participants is limited to 35.

The Bunsen Society invites all women to the first Women´s Networking Lunch at the Bunsentagung 2014.

Women are all about relationships! Join us for a lunch and get to know other successful women in our scientific community. This unique networking opportunity takes place on Friday (31 May 2014, 12:00h) at the Bunsentagung 2014 for the first time. The Women´s Networking Lunch enables female scientists, talented and eager students as well as company representatives to interact in a relaxed environment. This Lunch allows attendees to expand their professional network, to collaborate with peers, to share their personal and business experiences and to exchange opinions.

We truly look forward to welcoming you at the Women´s Networking Lunch and ask you to register for it jointly with your conference registration.

We'd love to get to know you!

Yvonne Joseph & Melanie Schnell

15:00 **Guided Tour at "Deutsches Zollmuseum"** (Language: German)

Price: 2 € entrance fee (incl. 19% VAT) payable onsite
The number of participants is limited to 28 persons.

Please register online before 15 April 2014.

17:30 – 20:30 **Poster Session**

The Poster Session allows for in-depth exchange of latest research achievements and developments in an informal atmosphere while enjoying a barbeque and drink with friends and colleagues.

Admission is free, but advance online registration is requested.
Please tick the appropriate box on the online registration form.

Saturday, 31 May 2014

10:00 – 12:00 **Guided tour of the research centre "DESY"(Deutsches Elektronen-Synchroton)**
Deutsches Elektronen-Synchrotron DESY
Notkestraße 85
22607 Hamburg

Price: free of charge
The number of participants is limited to 60 persons.

Please register online before 15 April 2014.

PLEASE NOTE: With the registration, you agree that your contact details will be forwarded to DESY.

From 19:00 **Conference Dinner**
Hotel Hafen Hamburg
Seewartenstraße 9
20459 Hamburg

Price: 65 € (incl. 19% VAT), incl. food and drinks

Advance online registration for the conference dinner is required.
Please tick the appropriate box on the online registration form.

PLEASE NOTE: Conference Dinner tickets can be cancelled without charges before **15 April 2014**.
Cancellation received thereafter will not be eligible for any refund.

The Hamburg tourism department offers a variety of cultural events and visitors programmes.
For further information please consult the website www.hamburg-travel.com.

We would recommend the hop-on-hop-off city tour or the "Miniatur Wunderland".

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REGISTRATION FEES[1)]

Registration fees until 27 March 2014

Personal Members of the German Bunsen Society	150 €
Non-Members	225 €
Students[2)] (proof of status required, no Ph.D. students)	50 €
Accompanying Person[3)]	35 €

Registrations after 27 March 2014 will be charged a 20 € late fee (except for accompanying person).

1) No VAT requested according § 4.21 USTG
2) Students enrolled in Bachelor and Master Courses only. Ph.D. students will be charged the regular registration fee.
3) Participation to the Welcome Reception on 29 May 2014 and the Poster Session on 30 May 2014 are included.

The conference ticket includes a book of abstracts, a list of participants, meals and beverages during the welcome reception, the poster session and the coffee breaks.

Lunches are not included in the registration fee. There are many restaurants and cafes nearby the conference venue.

REGISTRATION

Please register online at **www.bunsentagung.de**.

Registration is open, subject to capacity in the lecture rooms, up to the beginning of the conference. Publication deadline of the list of participants is **7 May 2014**. There is no guarantee that registrations received at a later date will appear in the list.

Conference ticket, book of abstracts and list of participants will be handed out on-site.

PAYMENT

Due to organisational constraints we can only accept payment by credit or EC-/Maestro card. You will receive an invoice by mail after your registration has been booked.

CANCELLATION

Only written cancellations will be accepted (letter, fax or e-mail). 30 € administrative costs will be charged for cancellations made before **7 May 2014**. Cancellations at a later date will be subject to a charge equal to 80% of the registration fee. No refund is possible after the start of the conference. If the event is cancelled by the German Bunsen Society, there will be a full refund of the conference fee. Further claims for compensation are excluded.

Special Cancellation Policy for Social Activities:
Conference Dinner: Conference Dinner tickets can be cancelled without charges **before 15 April 2014**. Cancellations received later will not be eligible for any refund.

Tours: Tickets for the tours can be cancelled without charges **before 15 April 2014**. Cancellation received later will not be eligible for any refund.

ACCOMMODATION

You can access a list of hotels offering room allotments to the conference attendees on the conference website **www.bunsentagung.de**, via the item “Accommodation”.

Reservations should be made directly to the hotel by the participants.

We highly recommend booking your accommodation as early as possible, since the available hotels in Hamburg are limited due to other events taking place in the same period in the city.

If you have any question or need further information on hotel accommodation, please contact Hamburg Tourismus (Hotline: +49 (0)40 30051-300 or -701) directly or check www.hamburg-travel.com.

VENUE

Universität Hamburg
Martin-Luther-King-Platz
20146 Hamburg

HOW TO REACH THE VENUE

Hamburg is easy to travel to, whether to travel by train, air or car. The city has excellent connections to the Hamburg Airport and is quick to reach via the motorways (A1, A7 and A24).

Hamburg is also a hub for InterCityExpress (ICE), InterCity, EuroCity, InterRegio trains. The next DB-station to the venue is "Hamburg Dammtor"

From "Hamburg Dammtor" (exit Universität/Edmund-Siemers-Allee) you can reach the venue by bus lines 4 or 5 direction Nedderfeld/Niendorf/Schnelsen, Eidelstedt/Wildacker and exit at stop Grindelhof (2 stops)

On the conference website **www.bunsentagung.de**, under the menu "Venue/How to reach the venue", you can find detailed driving directions to the University of Hamburg as well as information on reduced fare railway tickets to DECHEMA events.

Parking Information:
Parking spaces near the conference venue are very limited. We highly recommend visitors to reach the venue by public transport.

OPENING HOURS ON-SITE CONFERENCE OFFICE

Thursday, 29 May 2014	14:00 – 19:00
Friday, 30 May 2014	07:00 – 19:00
Saturday, 31 May 2014	07:30 – 17:00

A separate counter for student travel grants will be open on Friday from 09:00 to 18:00.

CONTACTS

For information on conference, lecture and poster programme, registration and book of abstracts, please contact:

Mr. Matthias Neumann
DECHEMA e.V.
Theodor-Heuss-Allee 25
60486 Frankfurt am Main/D
Phone: +49 (0)69 7564-254
Fax: +49 (0)69 7564-176
E-mail: bunsentagung@dechema.de

For information on meetings of the German Bunsen Society, student grants, awards and exhibitors/sponsoring invoices:

Mrs Erika Wöhler
Deutsche Bunsen-Gesellschaft für physikalische Chemie e.V.
German Bunsen Society for Physical Chemistry
Theodor-Heuss-Allee 25
60486 Frankfurt am Main/D
Phone: +49 (0)69 7564-621
Fax: +49 (0)69 7564-622
E-mail: woehler@bunsen.de

CONFERENCE LANGUAGES

The official languages of the conference are English and German.

Authors are expected to give their presentation (oral or poster) in the language used in the title published in the conference programme.

PLEASE NOTE: Simultaneous translation will not be available.

POSTER SESSION AND POSTER AWARDS

Posters will be on display during the entire conference. There will also be a dedicated **"Poster Session" on Friday, 30 May 2014 from 17:30-20:30.** The session will be split between posters with even poster numbers (from 17:30 to 19:00) and posters with odd poster numbers (from 19:00 to 20:30). Each presenting author will have 1,5 hours to present his/her poster. Authors are asked to be present at their own poster during their slot of the Poster Session for discussion.

The standard size for all posters is **0,85 m x 1,2 m (DIN A 0 – German Standard)** vertically oriented. Material to mount the posters will be available at the on-site conference office. It is the presenter's own responsibility to set-up his/her poster on the assigned poster board and to remove it at the end of the conference.

Posters will be reviewed by a jury during the Poster Session on Friday evening. Presentations will be evaluated according to the following criteria:

- Significance and originality of the work
- Quality of the poster presentation
- Outstanding scientific achievement

A total of 8 presentations will be selected to receive the "Best Poster Award" of 150 € each and free admission to the next Bunsentagung 2015 in Bochum for the main author. Additionally, another 8 presentations will be selected to receive a "Hot Topic" Poster Award Certificate, which grants free admission to the next Bunsentagung 2015 in Bochum for the main author.

The **Poster Award** will take place during the Closing Ceremony on **Saturday, 31 May 2014 at 16:10**.

Authors of the selected posters are invited to hold a short presentation of their work (1-2 PowerPoint slides only, best prepared in advance of the conference).

Only authors present at the Closing Ceremony will be awarded.

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KARRIEREFORUM (in German only)

Thursday, 29 May 2014 **11:30 – 14:30** (Dep. of Physical Chemistry, Room 160/161)

Topic: "Begleiter auf dem Karriereweg: Mentoren, Chefs, Mitarbeiter und Kollegen in der Geber- und Nehmerrolle"

The "Karriereforum" (career forum) is an annual symposium organised by the Karriereforum working group of the DBG. It aims at scientists in earlier stages of their careers (between master thesis and first appointment as a professor), and provides a forum for discussion of and exchange on career related issues and questions. The annual symposium features invited talks and an open discussion on a central career planning-related topic.

Admission is free, but advance online registration is required. Please tick the appropriate box on the online registration form.

Please note, that the **"Karriereforum" will be in German.**

Das diesjährige Karriereforum richtet sich sowohl an sehr junge Wissenschaftler, die Ratschläge zum Aufbau Ihrer Karriere suchen, als auch an Nachwuchsgruppenleiter, die sich in der verantwortungsvollen Position wiederfinden, ihre Mitarbeiter optimal zu fördern. In der Veranstaltung werden zwei Aspekte der Begleitung auf dem Karriereweg jeweils aus Geber- und aus Nehmersicht beleuchtet. Diese beiden Aspekte sind die fachliche Begleitung durch den Chef oder erfahrene Mitarbeiter der Arbeitsgruppe und die ideelle Betreuung in allem was nicht rein fachlich ist (Karriereschritte und -ziele, Stipendien, Kontakte etc.), wobei hier das Instrument des Mentorings im Vordergrund stehen wird, welches man auch in der Bunsen-Gesellschaft etablieren könnte.

Chair: Dominik Samuelis, Stellv. Vorsitzender Karriereforum, Max-Planck-Institut für Festkörperforschung, Stuttgart/D

Vorläufiges Programm

11:30 **Eröffnung des Karriereforums**
Annika Bande, Vorsitzende Karriereforum, Universität Heidelberg, Heidelberg/D

11:40 **Einführungsvortrag Mitarbeiterführung + Diskussion**
Jennifer Strunk, Ruhr-Universität Bochum, Bochum/D

12:10 **Podiumsdiskussion zur Mitarbeiterführung** (Moderation: A. Bande)
*Institusdirektorin: Yvonne Joseph, TU Bergakademie Freiberg, Freiberg/D
*Gruppenleiterin: Swetlana Schauermann, Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin/D (angefragt)
*Mitarbeiter: Jannika Lauth, Universität Hamburg, Hamburg/D

12:50 **Pause mit Networking beim Stehimbiss**

13:20 **Einführungsvortrag Mentoring und Erfahrungen als Mentor + Diskussion**
Yvonne Joseph, TU Bergakademie Freiberg, Freiberg/D

14:00 **Erfahrungsbericht eines Mentees + Diskussion**
Jannika Lauth, Universität Hamburg, Hamburg/D

14:10 **Ideen zu Mentoring in der DBG + Diskussion**
Annika Bande, Heidelberg University, Heidelberg/D

In der Mittagspause am Samstag, den 30. Mai findet die jährliche Mitgliederversammlung der Arbeitsgemeinschaft Bunsen-Karriereforum statt, zu der Mitglieder und Interessierte herzlich eingeladen sind. Der Ort und die genaue Zeit wird noch bekannt gegeben. Ein kleiner Imbiss wird bereit gestellt.

CHILD CARE

The Bunsentagung offers the opportunity for child care service (subject to extra charge) to parents of small children during the event.

Please check our website for more information.

INTERNET SERVICE

Free internet access via WLAN will be available for all participants during the conference.

More and regularly updated information on the conference is available at

www.bunsentagung.de

1 Lecture Halls Chemiehörsaal A - D

2 Lecture Halls Chemiehörsaal TMC and Pharmazie

3 Meeting Rooms Dep. of Physical Chemistry, Grindelallee 117

NOTES

NOTES

www.bunsentagung.de

Deutsche Bunsen-Gesellschaft für physikalische Chemie e.V.
German Bunsen Society for Physical Chemistry
Theodor-Heuss-Allee 25
60486 Frankfurt am Main/D
Phone: +49 (0)69 7564-621
Fax: +49 (0)69 7564-622
E-Mail: woehler@bunsen.de
Internet: www.bunsen.de