

**2026**

- 01.04.2026 Bunsen-Tagung 2026 "Properties and Processes under Confinement" (plenary talk)  
364 Technische Universität Dresden  
*Putting a spotlight on the Water – THz calorimetry*
- 25.03.2026 Research Center Opening & RESOLV Event "Diving into the next era"  
363 Deutsches Bergbau-Museum in Bochum  
*RESOLV – Diving into the next era*
- 22.03.2026 ACS Spring Meeting - Electric Field Effects in Vibrational Spectroscopy  
362 Georgia World Congress Center, Atlanta, GA, USA  
*Local thermodynamics and electric fields at an electrified interface*
- 04.03.2026 Wissenschaftliche Sitzung der Klasse für Naturwissenschaften und Medizin  
361 Nordrhein-Westfälische Akademie der Wissenschaften und der Künste, Düsseldorf  
*Der Oscar für den besten Nebendarsteller geht an: Wasser*

**2025**

- 16.12.2025 Pacifichem 2025, Symposium "Isolation of transient species in superfluid helium  
360 droplets", Honolulu, Hawaii, USA  
*On the nature of hydrogen bonding in the H<sub>2</sub>S dimer*
- 16.12.2025 Pacifichem 2025, Symposium "Biomolecules at interfaces defining the cellular  
359 environment: From conformational dynamics to informatic approaches"  
Honolulu, Hawaii, USA  
*Liquid-liquid phase separation – Ask the water!*
- 11.12.2025 QCB Seminar, NSF Science and Technology Center for Quantitative Cell Biology  
358 Beckman Institute, University of Illinois, IL, USA  
*Liquid-liquid phase separation – Ask the water!*
- 10.12.2025 Department of Chemistry Colloquium, Northwestern University, IL, USA  
357  
*Putting the spotlight on water in protein condensation*
- 04.12.2025 Interfacial H<sub>2</sub>O: Shaping the Electric Double Layer  
356 Lorentz Center, Leiden, Netherlands  
*Observation of the reshaping of the electric double layer at electrified interfaces*
- 18.11.2025 From Molecular Beams to Nanomedicine: A Tribute to the Scientific Journey of  
355 Giacinto Scoles, International Centre for Theoretical Physics (ICTP), Trieste, Italy  
*Liquid-liquid phase separation – Ask the water!*
- 16.09.2025 26<sup>th</sup> International Conference on Horizons in Hydrogen Bond Research  
354 Deutsches Elektronen-Synchrotron DESY, Hamburg  
*To be or not to be hydrogen bonded: Supercritical water and (H<sub>2</sub>S)<sub>2</sub>*
- 03.09.2025 HT-DYNA Workshop – Structural Dynamics of Elementary Proton Transport Processes  
353 Charité Crossover (CCO) Auditorium, Charité Berlin-Mitte, Berlin  
*Caught in the act: Optical pump THz probe allows real-time observation of the solvent response subsequent to photoexcitation*

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- 21.08.2025 50<sup>th</sup> International Conference on Infrared, Millimeter, and THz waves  
352 (IRMMW-THz 2025), Aalto University, Espoo, Finland  
*THz spectroscopy spotlights the role of water in biological processes*
- 19.07.2025 IUPAB/ABA Biophysics Satellite 2025  
351 (International Union for Pure and Applied Biophysics)  
Kuala Lumpur Convention Centre, Malaysia  
*Announcing the Oscar for best supporting actor: Water!*
- 15.07.2025 IUPAC 2025 – 50<sup>th</sup> World Chemistry Congress "Chemistry for Sustainable Future"  
350 (International Union of Pure and Applied Chemistry)  
Kuala Lumpur Convention Centre, Malaysia  
*Putting the solvent in the spotlight*
- 23.06.2025 16<sup>th</sup> Femtochemistry Conference (FEMTO 16) "Dynamics of Complex Molecular  
349 Processes in Chemistry, Biology, and Physics", Savoia Hotel, Trieste, Italy  
*Caught in the act: Optical pump THz probe allows real-time observation of the solvent response subsequent to photoexcitation*
- 16.06.2025 Conference "Aqueous Systems: The Frontier and Beyond"  
348 Grecotel Filoxenia, Kalamata, Greece  
*THz calorimetry probing the H-bonds in aqueous systems*
- 12.05.2025 Faculty of Chemistry Colloquium, University of Vienna, Austria  
347  
*Caught in the act: Time-resolved THz spectroscopy puts the spotlight on the role of the solvent into photochemical reactions*
- 25.04.2025 Department of Chemical Engineering Colloquium, UC Santa Barbara, CA, USA  
346  
*Liquid–liquid phase separation? Ask the water!*
- 17.04.2025 Enrico Fermi Colloquium  
345 European Laboratory for Non-Linear Spectroscopy (LENS), Firenze, Italy  
*Probing free energy in biological and chemical reactions by THz spectroscopy – Ask the water!*
- 07.04.2025 Bioelectrodynamics Webinar (virtual talk)  
344 hosted by Institute of Photonics and Electronics, Czech Academy of Sciences  
*Probing free energy in reactions by THz spectroscopy – Ask the water!*
- 26.03.2025 ACS Spring Meeting - Reactivity in Microdroplets  
343 San Diego Convention Center, San Diego, CA, USA  
*Tuning chemistry at electrified interfaces*
- 05.03.2025 2025 Women in Photochemistry Symposium  
342 University College London, UK  
*A journey into solvation science and "excited" states*
- 21.02.2025 Spectroscopy and Dynamics of Molecules and Clusters (SDMC-2025)  
341 Mussoorie, Uttarakhand, India  
*On the nature of hydrogen bonding in the H<sub>2</sub>S dimer*
- 09.01.2025 GDCH Vortrag, KIT, Karlsruhe  
340  
*Probing free energy in reactions by THz spectroscopy – Ask the water!*

**2024**

- 19.11.2024  
339 International Conference on Optics Within Life Sciences (OWLS-17)  
Indian Institute of Technology Bombay (IIT Bombay), Powai, Mumbai, India  
*Probing free energy in reactions by THz spectroscopy – Ask the water!*
- 14.09.2024  
338 133<sup>rd</sup> Assembly of the Society of German Natural Scientists and Physicians (GDNÄ)  
(Gesellschaft Deutscher Naturforscher und Ärzte), University of Potsdam  
*Der Oscar für den besten Nebendarsteller geht an: Wasser*
- 06.08.2024  
337 GRC "Vibrational Spectroscopy"  
Gordon Research Conference, Bryant University, Smithfield, RI, USA  
*Intermolecular vibrational spectroscopy meets calorimetry: Watching the solvent in action*
- 05.07.2024  
336 6<sup>th</sup> Italian Soft Days Conference, University of Florence, Italy  
*Probing free energy in reactions by THz spectroscopy – Ask the water!*
- 02.07.2024  
335 Molecular Biophysics Workshop (plenary talk)  
Laboratoire Charles Coulomb, University of Montpellier, France  
*Probing free energy in reactions by THz spectroscopy – Ask the water!*
- 24.06.2024  
334 15<sup>th</sup> International Conference on Quantum Fluid Clusters  
Aarhus Institute of Advanced Studies (AIAS), Aarhus University, Denmark  
*Hydrogen bonding in the H<sub>2</sub>S dimer: New insights from experiment and theory*
- 27.05.2024  
333 WaterX International Workshop (plenary talk)  
Circolo Ufficiali della Marina, La Maddalena, Sardinia, Italy  
*THz Calorimetry: A conceptual framework for a molecular understanding of solvation entropy and enthalpy*

**2023**

- 30.11.2023  
332 Nevada Distinguished Physical Chemistry Lectures  
Knowledge Center Wells Fargo Auditorium, University of Nevada, Reno, NV, USA  
*Announcing the Oscar for Best Supporting Actor: Water*
- 29.11.2023  
331 Nevada Distinguished Physical Chemistry Lectures  
Department of Chemistry, University of Nevada, Reno, NV, USA  
*Probing free energy in reactions by THz spectroscopy – Ask the water!*
- 10.11.2023  
330 Nanofluidic Seminar (virtual talk), hosted by Center for Enhanced Nanofluidic  
Transport (CENT), Cambridge, MA, USA  
*Probing the solvent-free energy in reactions by THz calorimetry*
- 26.10.2023  
329 CiM-IMPRS Interdisciplinary Graduate School Meeting – Cells in Action  
Max Planck Institute for Molecular Biomedicine, Münster  
*Liquid–liquid phase separation? Ask the water!*
- 13.08.2023  
328 266<sup>th</sup> ACS National Meeting "Electrocatalysis for Sustainable Energy: Fundamental,  
Applications, & Perspective", San Francisco, CA, USA  
*Stripping away ion hydration shells in electrical double layer formation: Water networks matter*

- 10.08.2023  
327 Symposium on Advances in Photochemistry  
London Institute for Advanced Light Technologies, Imperial College London, UK  
*Caught in the act: Optical Pump THz probe allows real-time observation of the solvent response subsequent to photoexcitation*
- 01.08.2023  
326 GRC "Structural, Dynamic and Reactive Properties in the Liquid Phase"  
Gordon Research Conference, Holderness, NH, USA  
*THz spectroscopy provides a conceptual framework for a molecular understanding of solvation enthalpy and entropy*
- 26.07.2023  
325 4<sup>th</sup> Aqueous Supramolecular Chemistry Workshop, Bozeman, MT, USA  
*Probing free energy in reactions by THz spectroscopy – Ask the water!*
- 26.06.2023  
324 TSRC Workshop "Water Structure, Dynamics and Thermodynamics in Biology"  
Telluride Science Research Center (TSRC), Telluride, CO, USA  
*Liquid–liquid phase separation? Ask the water!*
- 06.03.2023  
323 Physics Colloquium, Department of Physics, ETH Zurich, Switzerland  
*Probing free energy in reactions by THz spectroscopy - Ask the water*
- 28.02.2023  
322 Symposium on Size Selected Clusters (S<sup>3</sup>C 2023), Sunstar Hotel Davos, Switzerland  
*Water solvation, step by step*
- 02.02.2023  
321 Physics Colloquium, Institute of Physics, University of Kassel  
*It is water what matters!*
- 2022**
- 24.11.2022  
320 SPO 2022 – 23<sup>rd</sup> International Young Scientists Conference Optics and High  
Technology Material Science (virtual plenary talk), hosted by Faculty of Physics, Taras  
Shevchenko National University of Kyiv, Ukraine  
*Terahertz technology at the frontier of Chemistry*
- 16.09.2022  
319 Annual Meeting: Molecular Liquids at Interfaces  
European/Japanese Molecular Liquids Group (EMLG/JMLG), Barcelona, Spain  
*The stressed solvent: THz calorimetry probing the solvent in action*
- 05.09.2022  
318 BDS2022 – 11<sup>th</sup> Conference on Broadband Dielectric Spectroscopy and its  
Applications, Donostia - San Sebastian, Spain  
*Probing local solvation dynamics*
- 11.08.2022  
317 GRC "Frontiers in Size-Selected Cluster Research: Structure, Reactivity and Dynamics"  
Gordon Research Conference, Renaissance Tuscany Il Ciocco, Lucca (Barga), Italy  
*Low frequency spectra of water clusters, one by one*
- 06.07.2022  
316 German Chemical Society (GDCh) Colloquium  
Department of Chemical Biology, University of Marburg  
*It is water what matters!*
- 28.06.2022  
315 TSRC Workshop "Hydrophobicity: From Theory, to Simulation, to Experiment"  
Telluride Science Research Center (TSRC), Telluride, CO, USA  
*Spectroscopic fingerprints of cavity formation and solute insertion as a measure of hydration entropic loss and enthalpic gain*

- 17.06.2022  
314 CECAM Workshop "Challenges of molecular spectroscopy: Theory meets experiment"  
Lausanne, Switzerland  
*Tunneling in hydrogen bonded clusters: The more excited - the easier?*
- 30.05.2022  
313 SolvATE Meeting of French Research Group on Solvation, Paris, France  
*The stressed solvent: THz calorimetry probing the solvent in action*
- 17.05.2022  
312 XX<sup>th</sup> International Workshop on Quantum Atomic and Molecular Tunneling Systems  
(QAMTS), Canmore, Alberta, Canada  
*Tunneling in hydrogen bonded clusters: The more excited - the easier?*

**2021**

- 17.12.2021  
311 Pacifichem 2021, Symposium "Advances in Hydrogen Bond Research" (virtual talk)  
hosted by The Chemical Society of Japan (CSJ), Honolulu, Hawaii, USA  
*Ultracold chemistry under stardust conditions*
- 16.12.2021  
310 Pacifichem 2021, Symposium "Biomolecules at Interfaces Defining the Cellular  
Environment" (virtual talk), hosted by The Chemical Society of Japan (CSJ), Honolulu,  
Hawaii, USA  
*Local mutations can serve as a game changer for global protein solvent interaction*
- 23.08.2021  
309 11<sup>th</sup> International Conference on Advanced Vibrational Spectroscopy (ICAVS 11)  
(virtual talk), hosted by Targi w Krakowie Ltd., Krakow, Poland  
*An isolated water droplet in the aqueous solution of a supramolecular tetrahedral  
cage as observed by THz spectroscopy*
- 20.08.2021  
308 IUPAC/CCCE Symposium Hydrophobic Effects and Water-Mediated Self-Assembly  
(virtual talk), hosted by Chemical Institute of Canada, Montreal, Canada  
*Wrapping up hydrophobic hydration – Locality matters*
- 12.07.2021  
307 Protein Dynamics Workshop (virtual talk)  
hosted by Telluride Science Research Center (TSRC), Telluride, CO, USA  
*The key role of solvent in condensation: Mapping hydration water in liquid-liquid  
phase-separated FUS*
- 28.06.2021  
306 Water Structure, Dynamics and Thermodynamics in Biology (virtual talk)  
hosted by Telluride Science Research Center (TSRC), Telluride, CO, USA  
*The key role of solvent in condensation and host-guest interaction under  
nanoconfinement*
- 25.06.2021  
305 Seminar Journée IP2CT2021 (virtual talk)  
hosted by Institut Parisien de Chimie Physique et Théorique (IP2CT), Paris, France  
*Spectroscopy in superfluid helium nanodroplets: "A cool topic"*
- 22.06.2021  
304 Conference on Lasers and Electro-Optics Europe (CLEO/Europe) and the European  
Quantum Electronics Conference (EQEC) 2021 (virtual talk)  
hosted by The Optical Society (OSA), Munich  
*Nonlinear THz spectroscopy to study the solvent dynamics in water*
- 29.03.2021  
303 Seminar Department of Physics, Freie Universität Berlin (virtual talk)  
hosted by AG Theoretical Bio- and Soft Matter Physics, FU Berlin  
*Proton conduction probed with THz spectroscopy*

25.03.2021 DESY CMWS (Centre for Molecular Water Science) Days 2021 (virtual talk)  
302 hosted by Deutsches Elektronen-Synchrotron DESY, Hamburg  
*It is water what matters*

## 2016-2020

- 18.11.2020 Training Event for the Fellows of the Innovative Training Network PROTON  
301 (virtual talk), hosted by Universität Linz, Austria  
*Watching the solvent quake – Optical pump THz probe spectroscopy in liquid phase*
- 11.11.2020 45<sup>th</sup> International Conference on Infrared, Millimeter, and Terahertz Waves,  
300 IRMMW-THz 2020 (virtual talk), hosted from Buffalo, New York, USA  
*Caught in the act: Excited-state proton transfer to the solvent followed in real time by non-linear THz spectroscopy*
- 30.10.2020 Chemistry and Biochemistry Departmental Colloquium at UCSB (virtual talk)  
299 hosted from Santa Barbara, CA, USA  
*It is water what matters*
- 18.08.2020 ACS Symposium "Biophysical Chemistry in Complex Environments" (virtual talk)  
298 hosted from San Francisco, CA, USA  
*Mapping hydration water in liquid-liquid phase separated FUS by THz spectroscopy: The role of solvent thermodynamics in biomolecular condensation*
- 25.02.2020 Physical Chemistry Seminar, Department of Chemistry, UC Berkeley, CA, USA  
297 *It is water what matters – Change in hydrogen network dynamics in real time probed by linear and non-linear THz experiments*
- 17.01.2020 15<sup>th</sup> SOLEIL Users' Meeting, Paris, France  
296 *THz measurements to study solvation under extreme conditions*
- 29.11.2019 Physikalisches Kolloquium, Universität Heidelberg  
295 *Die unterschätzte Rolle des Wassers bei biologischen Prozessen - der THz Tanz des Wassers*
- 12.11.2019 The 12<sup>th</sup> Intl. Photonics and OptoElectronics Meetings, POEM 2019, Wuhan, China  
294 *Observing the solvent quake by (non) linear THz spectroscopy*
- 30.07.2019 The 14<sup>th</sup> Femtochemistry Conference, FEMTO 14, Shanghai, China  
293 *Studying solvation of photoexcited pyranine by non-linear THz spectroscopy*
- 18.06.2019 Workshop on Water structure, Dynamics and Thermodynamics in Biology  
292 Telluride, CO, USA  
*Wrapping up hydrophobic hydration – locality matters*
- 21.05.2019 WE-Heraeus Seminar Quantum Fluid Clusters 2019, Bad Honnef  
291 *Acid solvations versus dissociation at "Stardust conditions": Reaction sequence Matters*
- 13.12.2018 Intl. Conference in Complex & Functional Materials (ICCFM 2018) Kolkata, India  
290 *Studying solvation of photoexcited pyranine by non-linear THz spectroscopy*
- 18.09.2018 Biennial Meeting of the German Biophysical Society, Düsseldorf  
289 *Water in biology*

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- 13.09.2018      Keynote speaker at IRMMW-THz 2018, Nagoya, Japan  
288              *Catching a glimpse of transient "ferroelectric" water and ultrafast solvent rearrangement by nonlinear THz spectroscopy*
- 04.09.2018      10<sup>th</sup> Intl. Meeting on Photodynamics and related aspects (IMPRA)  
287              Cartagena, Colombia  
*Studying solvation dynamics of photo-excited solutes by non-linear THz spectroscopy*
- 07.06.2018      9th Intl. Meeting on Atomic and Molecular Physics and Chemistry (IMAMPC-2018)  
286              Helmholtz Zentrum Berlin  
*It is water what matters*
- 17.05.2018      GDCh-Kolloquium Universität Tübingen  
285              *It is water what matters*
- 20.04.2018      Kolloquium Universität Hamburg  
284              *It is water what matters*
- 04.03.2018      Austin Symposium on Molecular Structure and Dynamics, Dallas, Texas, USA  
283              *Stepwise Solvation at Ultracold Temperature*
- 04.10.2017      8<sup>th</sup> Intl. THz-Bio Workshop, ENEA Frascati, Italy  
282              *Water mapping by THz calorimetry or where spectroscopy meets calorimetry*
- 30.09.2017      Physikerinnentagung 2017, Ilmenau  
281              *It is water – what matters*
- 31.07.2017      Workshop on Protein Dynamics, Telluride Science Research Center, CO, USA  
280              *Water mapping by THz calorimetry*
- 28.06.2017      Workshop on Challenges in dissecting and understanding nuclear acid electrostatics  
279              Telluride Science Research Center, CO, USA  
*Ion hydration as probed by THz spectroscopy*
- 03.05.2017      Kolloquium Helmholtz-Zentrum Dresden-Rossendorf  
278              *It is water what matters: THz Spektroskopie – eine neue Methode zur Untersuchung von Solvationsprozessen*
- 24.02.2017      Joint meeting German and Czech Biophysicists, Kloster Hünfeld  
277              *THz calorimetry in biophysics*
- 03.02.2017      Sonderkolloquium Rheinische Friedrich-Wilhelms-Universität Bonn  
276              *"Völlig losgelöst"*
- 08.12.2016      Photonics 2016 (plenary talk), Kanpur, India  
275              *It is water what matters: THz absorption spectroscopy as a new tool to study solvation dynamics*
- 01.12.2016      CECAM workshop Wien, Austria  
274              *THz spectroscopy and Solvation Science*
- 22.11.2016      ISAS-Kolloquium Berlin  
273              *THz spectroscopy and Solvation Science*
- 24.10.2016      Dortmunder Gambrinus Forum  
272              *"Völlig losgelöst" Der THz-Tanz des Wassers*

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- 28.10.2016      Reedijk Symposium 2016, Leiden, Netherlands  
271              *Solvation Science – THz spectroscopy provides new answers to an old topic*
- 21.10.2016      24<sup>th</sup> Solvay Conference in Chemistry, Solvay Institute Bruxelles, Belgium  
270              *Water mapping in enzymatic catalysis by THz spectroscopy (THz calorimetry)*
- 03.10.2016      Workshop Bio THz Göteborg, Sweden  
269              *It is water what matters – THz spectroscopy as a new tool to study biomolecular hydration*
- 02.08.2016      Gordon Research Conference, Holderness, NH, USA  
268              *Introduction to THz calorimetry: Hydration of hydrophobic surfaces*
- 13.07.2016      Physikalisches Kolloquium, Universität Duisburg-Essen  
267              *THz spectroscopy and THz calorimetry as a novel tool in solvation science*
- 14.06.2016      Colloquium, Universität Innsbruck, Austria  
266              *It is water which matters: from Ion hydration to THz calorimetry*
- 28.04.2016      Kolloquium, ISAS Dortmund  
265              *It is water what matters – THz spectroscopy as a new tool to study biomolecular hydration*
- 08.04.2016      FYSICA 2016, Radboud University, Nijmegen, Netherlands  
264              *Transient THz spectroscopy probes large amplitude motions of proteins and collective low frequency protein/hydration modes*
- 04.04.2016      Workshop on Protein Dynamics TSRC Konferenz, Les Houches, France  
263              *Transient THz spectroscopy probes large amplitude motions of proteins and collective low frequency protein/hydration modes*
- 14.03.2016      ACS 251<sup>st</sup> National Meeting, San Diego, CA, USA  
262              *Transient THz spectroscopy probes large amplitude motions of proteins and collective low frequency protein/hydration modes*
- 10.03.2016      DPG Frühjahrstagung Regensburg  
261              *It is water what matters: THz absorption spectroscopy as a new tool to study solvation dynamics*
- 06.03.2016      Austin Symposium, Dallas, TX, USA  
260              *Transient THz spectroscopy probes large amplitude motions of proteins and collective low frequency protein/hydration modes*
- 20.01.2016      Kolloquium anlässlich des 80sten Geburtstags von Giacinto Scoles, ICTP Trieste, Italy  
259              *It is water that matters: Spectroscopy probes solvation dynamics*
- 15.01.2016      Center of NanoScience (CeNS Kolloquium), LMU München  
258              *It is water what matters – THz spectroscopy as a tool to study the role of water in biomolecular function*
- 11.01.2016      MUST Annual meeting, Engelberg, Switzerland  
257              1. *Closing the THz gap: experimentally and theoretically*  
256              2. *Application to solvation science: Ion hydration and biomolecular solvation*

**2011-2015**

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- 19.12.2015 Pacificchem, Honolulu, HI, USA  
255 1. THz time domain studies of water entrapped in micelles  
254 2. Microsolvation at 0.37 K: IR spectroscopic studies of aggregates in superfluid helium nanodroplets
- 19.12.2015 Pacificchem, Honolulu, HI, USA  
253 *It is water what matters: THz absorption spectroscopy as a powerful tool to study biomolecular hydration*
- 14.10.2015 iCOMET, Chengdu, China  
252 *It is water what matters: THz-absorption spectroscopy as a new tool to study solvation dynamics*
- 29.09.2015 Intl. Symposium "Assessing the future of physical Chemistry", Berlin  
251 *It is water what matters: The role of water in Enzymatic Catalysis*
- 26.08.2015 IRMMW-THz Conference, Hong Kong  
250 *It is water what matters: THz-absorption spectroscopy as a new tool to study solvation dynamics*
- 06.08.2015 Protein Dynamics Conference, Telluride Science Research Center, CO, USA  
249 *The hydrophobic collapse as probed by Kinetic THz absorption spectroscopy*
- 30.06.2015 GDCh Kolloquium, RWTH Aachen  
248 *Exploring "Solvation Science" THz-spectroscopy as a tool to study solvation dynamics*
- 22.06.2015 Intl. Symposium on Molecular Spectroscopy (plenary talk), Urbana-Champaign, IL, USA  
247 *It is water what matters: THz spectroscopy as a tool to study hydration dynamics*
- 18.05.2015 50 Jahre 50 Vorträge, Ruhr-Universität Bochum  
246 *Es kommt auf das Lösungsmittel an*
- 15.05.2015 Women's Networking Lunch, Bunsentagung 2015, Bochum  
245 *Why are we still few on the top? Dreams to be realized*
- 11.05.2015 Seminarvortrag, UC Berkeley, CA, USA  
244 *It is water what matters: New insights by THz absorption spectroscopy into the role of water in biological function*
- 23.04.2015 GDCh Kolloquium, Karlsruhe  
243 *It is water that matters: THz absorption studies as a tool to study biomolecular hydration*
- 16.04.2015 Tulip VI Summer School, Noordwijk, Netherlands  
242 *Terahertz Spectroscopy 2*
- 15.04.2015 Tulip VI Summer School, Noordwijk, Netherlands  
241 *Terahertz Spectroscopy 1*
- 24.03.2015 Seminarvortrag Elettra, Trieste, Italy  
240 *It is water what matters: THz absorption spectroscopy as a new tool to study solvation dynamics*
- 20.02.2015 Spectroscopy and Dynamics of Molecules and Clusters (SDMC) 2015, Nainital, India  
239 *Exploring solvation science – spectroscopy as a tool to study solvation dynamics*

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- 17.02.2015 Colloquium Indian Institute of Technology, Bangalore, India  
238 *It is water which matters: studying microsolvation by IR and THz spectroscopy*
- 12.01.2015 Kolloquium, SFB 1078, FU Berlin  
237 *New insights into the role of water in biological function: Terahertz absorption spectroscopy studies of the solvation dynamics of biomolecules*
- 03.10.2014 Colloquium, UC Davies, CA, USA  
236 *New insights into the role of water in biological function: Terahertz absorption spectroscopy studies of the solvation dynamics of biomolecules*
- 30.09.2014 Miller lunch talk, Berkeley, CA, USA  
235 *It is water which matters: studying microsolvation by IR and THz spectroscopy*
- 23.09.2014 Seminarvortrag, UC Berkely, CA, USA  
234 *Solvation – new answers to an old problem: Using THz spectroscopy to gain new insights into the role of water in biological function*
- 11.09.2014 Specmo 2014, Marana Center, Corsica, France  
233 *THz absorption spectroscopy a new tool to study solvation processes*
- 07.08 2014 Gordon Research Conference Vibrational Spectroscopy, Biddeford, ME, USA  
232 *Rapid kinetic THz absorption spectroscopy: Following changes in the coupled protein-hydration dynamics in the real time*
- 10.07.2014 Workshop on Interfacial molecular and electronic structure and dynamics, Telluride Science Research Center, CO, USA  
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- 02.07.2014 Laser Application and Life Sciences Conference, Ulm  
230 *Some like it cool – THz absorption as a tool to study biomolecular hydration*
- 05.06.2014 Water 2014 workshop, Les Houches, France  
229 *Some like it cool - THz absorption spectroscopy of antifreeze proteins*
- 19.05.2014 Workshop on Protein Dynamics TSRC Konferenz, Les Houches, France  
228 *Some like it cool - THz absorption spectroscopy of antifreeze proteins*
- 25.04.2014 Lecture series, ETH Zürich, Switzerland  
227 *Some like it cool – THz absorption spectroscopy of AFP*
- 25.04.2014 Lecture series, ETH Zürich, Switzerland  
226 *THz vibrational signatures of hydrated ions*
- 24.04.2014 Kolloquium, Universität Bern, Switzerland  
225 *It is water which matters: Observing the rattling modes of ions in the THz range*
- 22.04.2014 Lecture series, ETH Zürich, Switzerland  
224 *Solvation – new answers to an old problem: THz spectroscopy as a new spectroscopic tool to probe hydration*
- 22.04.2014 Lecture series, ETH Zürich, Switzerland  
223 *Introduction to the tools: Experimental and simulation*
- 03.04.2014 5th THz-Bio Workshop Seoul, Korea  
222 *Observing the rattling modes of ions in the THz range*
- 02.04.2014 5<sup>th</sup> THz-Bio Workshop Seoul, Korea

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- 221            *Introduction into THz spectroscopy as a tool to probe hydration dynamics*
- 25.03.2014    IMM Colloquium, Radboud University, Nijmegen, Netherlands
- 220            *It is water that matters. THz absorption studies – a new tool to study biomolecular hydration*
- 20.03.2014    Kolloquium, Universität Wien, Austria
- 219            *Some like it cool - the role of water in biological function*
- 14.03.2014    Workshop on Adsorption of ions at solid-electrolyte interfaces, Leiden
- 218            *Ion Solvation – new answers to an old problem*
- 22.01.2014    AirUCI Workshop, Laguna Beach, CA, USA
- 217            *Solvation - new insights by THz spectroscopy*
- 05.01.2014    RSC Spectroscopy and Dynamics Meeting, University of Oxford, UK
- 216            *Solvation - new answers to an old problem*
- 26.09.2013    Black Forest Focus Conference, Saig, Schwarzwald
- 215            *Some like it cool - THz absorption studies of anti-freeze proteins*
- 16.09.2013    20<sup>th</sup> Intl. Conference on Horizons in Hydrogen Bond Research, Antwerp, Belgium
- 214            *Rock and roll at 0.35 K*
- 30.08.2013    23<sup>rd</sup> Colloquium on High Resolution Molecular Spectroscopy, HRMS 2013, Budapest, Hungary
- 213            *Rock and roll at 0.37 K - high-resolution spectroscopy of microsolvated clusters*
- 06.08.2013    Protein Dynamics Workshop, Telluride Science Research Center, CO, USA
- 212            *Some like it cool - Anti Freeze Proteins*
- 26.07.2013    Workshop on Vibrational Dynamics, Telluride Science Research Center, CO, USA
- 211            *Solvation of anions and cations observed in the IR and the THz range*
- 19.06.2013    Oberseminar "Ultrakurzzeitspektroskopie", LMU München
- 210            *The role of water in biological processes*
- 19.06.2013    Quantum Fluid Clusters 2013, Regensburg
- 209            *Ultracold Chemistry Aggregation and Microsolvation at 0.37 K*
- 10.05.2013    Bunsentagung 2013, KIT, Karlsruhe
- 208            *The THz dance of water with bio-molecules*
- 02.05.2013    FELIX Kick-off Meeting, Radboud University Nijmegen, Netherlands
- 207            *Probing the role of water in biological processes by kinetic THz absorption spectroscopy (KITA)*
- 03.04.2013    OTST 2013, Kyoto, Japan
- 206            *The Terahertz vibrational signatures of hydrated ions*
- 01.04.2013    Tutorial, OTST 2013, Kyoto, Japan
- 205            *The THz dance of water with bio-molecules*
- 15.02.2013    4<sup>th</sup> THz-Bio Workshop, Seoul, Korea
- 204            *Fast solvation dynamics detected by THz spectroscopy*
- 06.02.2013    Phontonics West, SPIE Conference 2013, San Francisco, CA, USA
- 203            *Watching the dance of ions and molecules in the THz*

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- 25.01.2013 Kolloquium, Radboud University Nijmegen, Netherlands  
202 *From FIR to THz spectroscopy - from the gas phase to the liquid phase*
- 14.01.2013 Colloquium, Institute for Sciences and Technology (IST), Klosterneuburg, Austria  
201 *Solvation – new answers to an old problem*
- 08.01.2013 Societas Emeritorium Emeritarumque, Ruhr-Universität Bochum  
200 *Das Prinzip aller Dinge ist das Lösungsmittel*
- 19.12.2012 Winter School in Theoretical Chemistry 2012, Helsinki, Finland  
199 *1. The THz dance of water - describing hydrogen network dynamics*  
198 *2. The THz dance of water - experimental access to hydrogen network dynamics*
- 21.11.2012 Kolloquium, Fritz-Haber-Institut Berlin  
197 *Water at interfaces - solvation of ions and proteins*
- 01.10.2012 Polydays 2012, Berlin  
196 *THz spectroscopy: A novel experimental tool to study water network dynamics*
- 21.08.2012 244<sup>th</sup> ACS meeting, Philadelphia, PA, USA  
195 *Watching the dance of water in the hydration shell of ions and biomolecules in the THz frequency range*
- 02.07.2012 GDCh Kolloquium, TU Berlin  
194 *Der THz Tanz des Wassers mit den Biomolekülen*
- 30.05.2012 FOR 618 Symposium Bochum  
193 *Rock and Roll at 0.35 K*
- 20.05.2012 German-Russian Conference on Fundamentals an Application of Nanoscience, Berlin  
192 *Chemical imaging with nm resolution*
- 16.04.2012 GDCh Kolloquium TU Braunschweig  
191 *Der THz Tanz des Wassers mit den Proteinen*
- 26.03.2012 ACS National Meeting, San Diego, CA, USA  
190 *Correlated structural kinetics and retarded solvent dynamics at the metalloprotease active site*
- 15.03.2012 DPG Frühjahrstagung (Plenarvortrag), Stuttgart  
189 *THz Spectroscopy: A novel experimental tool to study water network dynamics*
- 01.02 2012 Gordon Research Conference on Molecular & Ionic Clusters Ventura, CA, USA  
188 *Rock and roll at 0.37 K - High resolution IR spectroscopy of ultracold molecular cluster*
- 08.01.2012 Meeting of the Excellence Cluster MUST – Lenk 2012, Switzerland  
187 *Watching the THz dance of water in the hydration shells of ions and biomolecules*
- 05.12.2011 Hebrew University Jerusalem, Israel  
186 *Watching the THz dance of water in the hydration shells of ions and biomolecules*
- 04.12.2011 Seminarvortrag - Clore-Biophysics series - Weizmann Institute, Rehovot, Israel  
185 *THz spectroscopy: a novel tool to study water network dynamics*
- 30.11.2011 Workshop "Perspective in THz spectroscopy with neutrons" Helmholtz Zentrum  
184 Berlin

- What is the role of the solvent in biological function? A new THz look at an old question*
- 18.11.2011 DESY Photon Science Seminar, Hamburg  
183 *Watching the dance of water in the hydration shell of ions and biomolecules in the THz frequency range*
- 08.11.2011 Colloquium, Yale University, New Haven, CT, USA  
182 *What is the role of the solvent in biological function? A new THz look at an old question*
- 10.10.2011 ICTP-KFAS Conference on Nanotechnology for Biological and Biomedical Applications, Trieste, Italy  
181 *The role of water in enzymatic reactions - THz spectroscopy as a tool to probe solvation dynamics*
- 01.08.2011 Gordon Research Conference on Biological Molecules in the Gas Phase & in Solution, Andover, NH, USA  
180 *The THz dance of biomolecules in solution*
- 29.07.2011 Workshop on Vibrational Dynamics, Telluride Science Research Center, CO, USA  
179 *Correlated structural kinetics and retarded solvent dynamics at the metalloprotease active site*
- 05.07.2011 Hydroprot 2011 Conference, Paris, France  
178 *Watching the dance of ions and molecules in the THz*
- 15.06.2011 Physikalisch-Chemisches Kolloquium, LMU München  
177 *Detecting the chemical fingerprint in soft matter: From DNA bio nanochips to the study of ion solvation*
- 07.06.2011 Vortrag im Rahmen der Chemischen Gesellschaft zu Heidelberg  
176 *Ein neues Frequenzfenster öffnet sich: Vom THz Tanz des Wassers mit den Proteinen bis zum Rasseln des Ions mit seiner Hydrathülle*
- 07.06.2011 Conference on "Teaching is touching the future: from vision to practice", Ruhr-Universität Bochum  
175 *Visionen lokal! Der internationale Masterstudiengang Molecular Sciences and Simulation*
- 31.05.2011 482. WE Heraeus-Seminar: Helium-Nanodroplets – Confinement for cold molecules and cold chemistry, Bad Honnef  
174 *Rock and Roll at 0.37 K*
- 22.05.2011 Conference on Lasers and Electro-Optic Europe, München  
173 *Watching the dance of ions and molecules in the THz*
- 30.04.2011 3<sup>rd</sup> Meeting "From the witches cauldrons in materials science", Goslar  
172 *Mapping chemical surfaces by IR nanoscopy*
- 07.04.2011 Faraday Discussion 150 Frontiers in Spectroscopy, Basel, Switzerland  
171 *The THz dance of the protein with the water*
- 04.04.2011 Workshop on Water, Max-Born-Institut Berlin  
170 *Watching the dance of ions and molecules in the THz*

- 21.03.2011 Kolloquium, ETH Zürich, Switzerland  
169 *Watching the dance of ions and molecules in the THz*
- 21.01.2011 Kolloquium, Universität Würzburg  
168 *Solvatation im Detail verstanden: Von einzelner Ion bis zum Protein*
- 20.01.2011 Universität Würzburg  
167 *Der THz Tanz des Wassers*

**2006-2010**

- 02.12.2010 2<sup>nd</sup> Intl. Conference on "Transient Chemical Structures in Dense media", Paris, France  
166 *Dynamics of water molecule around proteins*
- 01.11.2010 1<sup>st</sup> German-Russian Symposium in Nanomaterials – New Horizons, Moscow, Russia  
165 *Chemical nanoscopy of surfaces and at interfaces*
- 13.09.2010 Advanced Laser Technologies Conference ALT'10, Egmond an Zee, Netherlands  
164 *Watching the dance of the water with the protein*
- 10.08.2010 Gordon Research Conference on Water & Aqueous Solutions, Mount Holderness,  
163 NH, USA  
*The THz dance of the water with the protein*
- 19.07.2010 Physikalisches Kolloquium, Ruhr-Universität Bochum  
162 *Rock and roll at 0.37 K*
- 02.07.2010 Kolloquium, Universität Düsseldorf  
161 *Understanding solvation on a molecular scale – An interplay between experiment and solution*
- 15.06.2010 Physikalisches Kolloquium, TU Dortmund  
160 *Rock and Roll at 0,37 K*
- 10.06.2010 Intl. Conference on Laser Applications in Life Sciences, Oulu, Finland  
159 *The THz dance of the protein with the water*
- 21.04.2010 456. WE Heraeus-Seminar: THz radiation: generation, detection and applications,  
158 Bad Honnef  
*Watching the dance of the protein with the water*
- 16.04.2010 Physikalisches Kolloquium, Universität Osnabrück, Austria  
157 *Challenges in IR-Spectroscopy: From microsolvation towards chemical fingerprints of nanostructured surfaces*
- 09.03.2010 THz Bio Workshop and Center opening ceremony, Seoul, Korea  
156 *The THz dance of the protein with the water*
- 08.02.2010 PhandTA 11, Innsbruck  
155 *The THz dance of the protein with water*
- 24.01.2010 Photonics West, SPIE Conference 2010, San Francisco, CA, USA  
154 *THz spectroscopy as a new tool to probe hydration dynamics*
- 12.01.2010 Water at Interfaces Conference, Institute of Advanced Study, Durham, UK  
153 *The THz dance of the water with the protein*

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- 17.12.2009 152 1<sup>st</sup> Workshop on TBONE Experiments and Applications, Karlsruhe  
*Scanning near field infrared microscopy: Chemical Imaging on a nm scale*
- 01.12.2009 151 Intl. Workshop TeraTech09, Osaka, Japan  
*The THz dance of the water with the protein*
- 19.11.2009 150 Physikalisches Kolloquium, Universität Rostock  
*Ultrakalte Chemie: Höchstaufgelöste Spektroskopie im Helium-Nanotröpfchen*
- 07.11.2009 149 Physikerinnen-Tagung der DPG, Frankfurt  
*Chemie bei ultrakalten Temperaturen: Beobachtung des kleinsten Tropfens Säure*
- 26.10.2009 148 Conference on Structure and Dynamics of Hydrogen-bonded systems, ICTP, Trieste, Italy  
*Aggregation induced dissociation of HCl (H<sub>2</sub>O)<sub>4</sub> below 1 K: The smallest droplet of acid*
- 15.09.2009 147 20<sup>th</sup> Intl. Congress on X-ray optics and microanalysis, Karlsruhe  
*Scanning nearfield microscopy: Chemical imaging on a nm scale*
- 08.09.2009 146 Physikalisches Kolloquium, Universität Göteborg, Sweden  
*Chemistry below 1 K: Observation of the smallest droplet of acid*
- 28.08.2009 145 SEADIM7 Conference, Varadero, Cuba  
*Laser spectroscopy as a tool to study solvation: From the smallest droplet of acid towards the THz dance of the protein with the water*
- 04.08.2009 144 Protein Dynamics Workshop, Telluride Science Research Center, CO, USA  
*The THz dance of the water with the protein: Direct observation of collective solvent protein network motions*
- 20.07.2009 143 Vibrational Dynamics Workshop, Telluride Science Research Center, CO, USA  
*Chemistry below 1 K: Observation of the smallest droplet of acid*
- 13.07.2009 142 Kolloquium, TU München  
*From the smallest droplet of acid towards the THz dance of the protein with the water*
- 10.07.2009 141 41<sup>st</sup> EGAS 2009, Danzig, Poland  
*Chemistry at ultracold temperatures: Observation of the smallest droplet of acid*
- 27.05.2009 140 Intl. workshop on Quantum Fluid Clusters, MPIKS, Dresden  
*Aggregation induced dissociation of HCl(H<sub>2</sub>O)<sub>4</sub> below 1 K: The smallest droplet of acid*
- 23.05.2009 139 Protein-Protein-Interactions: Experiment and Theory, Deutsche Gesellschaft für Biophysik, Hünfeld  
*The THz dance of the protein with the water*
- 11.05.2009 138 Protein and Water workshop, Tempe, AZ, USA  
*The THz dance of the water with the protein*
- 15.04.2009 137 Purdue University, West Lafayette, IN, USA  
*Understanding solvation dynamics: From the smallest droplet of acid towards the THz dance of the protein with the water*
- 20.03.2009 136 4<sup>th</sup> Ringberg Meeting on Molecular Physics 2009, Schloß Ringberg, Kreuth  
*The smallest droplet of acid: IR high resolution spectroscopy of solvated HCl*
- 16.03.2009 Symposium, Universität Göttingen

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- 135      *The THz dance of water with the protein: Direct observation of collective solvent protein network motions*
- 09.03.2009      Intl. workshop on Optical Terahertz Science, Santa Barbara, CA, USA  
134      *The THz dance of the protein with water*
- 06.03.2009      Emory University, Atlanta, GA, USA  
133      *From fluctuations to function and vice versa: The THz dance of the water with the protein*
- 28.02.2009      53rd Annual Meeting of the Biophysical Society, Boston, MA, USA  
132      *The THz dance of water with the protein*
- 26.02.2009      Workshop Neutrons and X-rays meet biology, Helmholtz Zentrum Berlin  
131      *The THz dance of the water*
- 12.02.2009      TBONE workshop ANKA, Karlsruhe  
130      *The THz dance of the protein with the water*
- 11.02.2009      Kolloquium, Universität Kaiserslautern  
129      *Solvatation neu aufgerollt: Vom kleinsten Säuretröpfchen bis zur schnellen Solvationsdynamik von Proteinen*
- 28.01.2009      Ultrafast Biochemistry Workshop, Basel, Switzerland  
128      *Terahertz excitation of biomolecules*
- 20.01.2009      Kolloquium, Universität Stuttgart  
127      *Vom kleinsten Säuretröpfchen bis zum THz Tanz des Wassers mit den Proteinen*
- 17.12.2008      Laser centre symposium 2008, Vrije Universiteit Amsterdam, Netherlands  
126      *The THz dance of the protein with the water*
- 15.12.2008      Princeton, NJ, USA  
125      *Introduction to Spectroscopy in ultracold Helium nanodroplets*
- 08.11.2008      Alexander von Humboldt-Kolloquium, Varanasi, India  
124      *The THz dance of the protein with the water*
- 29.10.2008      AMO physics section meeting of the Dutch Physics Society, Lunteren, Netherlands  
123      *The THz dance of the protein with the water*
- 24.10.2008      Kolloquium, Universität Freiburg  
122      *Neue Möglichkeiten der IR- und THz-Laserspektroskopie: Chemische Fingerabdrücke nanostrukturierter Oberflächen und der THz Tanz des Wassers*
- 21.10.2008      55<sup>th</sup> AVS Meeting, Boston, MA, USA  
121      *Vibrational imaging with nm resolution: Scanning Near Field Infrared Microscopy (SNIM) on surfaces*
- 29.09.2008      European Optical Society (EOS) meeting, Paris, France  
120      *Scanning near field infrared microscopy (SNIM): Combining topographical and optical information*
- 25.09.2008      Intchem Summer School und Forschergruppe 618-Workshop, Leśna, Poland  
119      *Microsolvation of acids studied at ultracold temperatures*
- 28.08.2008      The Royal Society of Chemistry Faraday Discussion 141: Water - From Interfaces to

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- 118 the Bulk, Edinburgh, Scotland  
*The Terahertz dance of water with the proteins: The effect of protein flexibility on the dynamical hydration shell of ubiquitin*
- 15.08.2008 33<sup>rd</sup> Intl. Conference on Infrared, Millimeter, and Terahertz Waves (keynote talk),  
117 Pasadena, CA, USA  
*The THz dance of water with the protein*
- 06.08.2008 Gordon Research Conference on Vibrational Spectroscopy, South Hadley, MA, USA  
116 *High resolution laser spectroscopy of molecular aggregates in superfluid helium nanodroplets: The smallest droplet of acid*
- 11.06.2008 Graduiertenkolleg-Kolloquium FU Berlin  
115 *THz dance of the water with biomolecules*
- 27.05.2008 Workshop on Bionanointerfaces, Portoroz, Croatia  
114 *The THz and IR look on surfaces and interfaces*
- 21.05.2008 Verleihung des Erfinderpreises 2007 der rubitec GmbH, Bochum  
113 *Entwicklung eines neuartigen Mikro-/Nanoskops*
- 16.04.2008 Eduard-Zintel-Kolloquium, TU Darmstadt  
112 *Der "THz-Tanz" des Wassers mit den Biomolekülen*
- 03.04.2008 Analytica Konferenz, München  
111 *Der THz Tanz des Wassers mit den Proteinen*
- 27.02.2008 2<sup>nd</sup> Intl. Conference on Perspectives in Vibrational Spectroscopy (ICOPVS 2008),  
110 Trivandrum, India  
*The THz dance of the water with biomolecules*
- 11.02.2008 Winter College on Micro and Nano Photonics for Life Sciences, Trieste, Italy  
109 *IR nearfield microscopy: principles and applications*
- 28.01.2008 GdCH-Kolloquium, Universität Regensburg  
108 *Von der Mikrosolvatation bis zum "THz-Tanz" der Proteine*
- 18.12.2007 Kolloquium, Universität Münster  
107 *A closer look on surfaces and interfaces by IR- and THz laser spectroscopy*
- 10.12.2007 Meeting on Biomolecules investigated with UV and THz spectroscopy, Nijmegen,  
106 Netherlands  
*The THz dance of the water with biomolecules*
- 03.12.2007 Kolloquium, Universität Bonn  
105 *Ein mikroskopischer Blick auf Biomoleküle: Vom IR-Nahfeldblick auf Lipide bis zum Tanz des Wasser mit den Proteinen*
- 13.11.2007 Kolloquium, MPI für Eisenforschung, Mülheim  
104 *A closer look on surfaces and interfaces by IR- and THz laser spectroscopy*
- 08.11.2007 Seminarvortrag, Universität Zürich, Switzerland  
103 *The THz dance of water with biomolecules*
- 18.10.2007 Kolloquium, Freiburger Physiktage, Universität Freiburg  
102 *Der THz-Tanz des Wassers mit den Biomolekülen*

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- 14.08.2007 29<sup>th</sup> Intl. Symposium on Free Radicals, Big Sky, MT, USA  
101 *High resolution infrared spectroscopy of molecules in helium nanodroplets: Observation of radicals and aggregation processes at ultralow temperatures*
- 04.08.2007 Intl. Symposium "Topical Problems of Biophotonics 2007" Nizhny Novgorod, Russia  
100 *The THz dance of water with biomolecules*
- 31.07.2007 Workshop on Protein dynamics, Telluride Science Research Center, CO, USA  
099 *The THz dance of the protein with the water*
- 11.07.2007 Seminar am MPI für molekulare Physiologie, Dortmund  
098 *New perspectives of IR- and THz spectroscopy of biomolecules: From chemical nanoscopy of lipids to the THz dance of the water with the protein solvation water around proteins*
- 09.07.2007 Conference on Tunable Diode Laser Spectroscopy, Reims, Frankreich  
097 *IR spectroscopy in ultracold heliumnanodroplets*
- 04.05.2007 Physikalisches Kolloquium, Universität Heidelberg  
096 *Was "sehen" wir mithilfe der IR- und THz Lasertechnologie?*
- 16.04.2007 Spring College on "Water in Physics, Chemistry and Biology", Trieste  
095 *1. Probing solvation dynamics in the sub-psec regime: Experimental probes*  
094 *2. Probing solvation dynamics in the sub-psec regime by THz spectroscopy*
- 10.04.2007 Rundgespräch der DFG "Cold Reaction Dynamics" Physikzentrum Bad Honnef  
093 *Mikrosolvatation und -aggregation in ultrakalten Heliumnanotröpfchen*
- 29.03.2007 233<sup>rd</sup> American Chemical Society Meeting, Symposium on Vibrational Spectroscopy  
092 as a Probe of Biomolecular Structure and Dynamics, Chicago, IL, USA  
*The THz dance of the water with the protein*
- 20.03.2007 Workshop spectroscopy of biomolecules, DELTA, Dortmund  
091 *Scanning nearfield infrared microscopy: Chemical imaging with nm resolution*
- 06.03.2007 Terahertz-Spektroskopie College Tag, Göttingen  
090 *Der THz Tanz des Wassers mit Biomolekülen*
- 07.02.2007 Nordrhein-Westfälische Akademie der Wissenschaften, Düsseldorf  
089 *Auf der Suche nach dem "chemischen Fingerabdruck": Neue Perspektiven der Infrarot- und THz-Spektroskopie*
- 17.01.2007 GDCh Kolloquium, Universität Marburg  
088 *Tunnelnde Protonen und tanzende Wassermoleküle: Ein mikroskopischer Blick durch die IR- und THz-Brille*
- 13.12.2006 Physikalisches Kolloquium, Universität Frankfurt  
087 *Was "sehen" wir mit THz-Technologie? Von solvatisierten Proteinen und tanzenden Wassermolekülen*
- 12.11.2006 53<sup>rd</sup> AVS International Symposium & Exhibition, San Francisco, CA, USA  
086 *THz Technology and its application in the study of hydration layers and thin films*
- 26.10.2006 Conference on the Physics, Chemistry and Biology of Water, Vermont, VT, USA  
085 *Solute-induced retardation of water dynamics probed directly by terahertz spectroscopy*

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- 16.10.2006 EOS Annual Meeting 2006, Porte de Versailles - Paris, France  
084 *Scanning infrared near field microscopy: Chemical imaging of subsurface structures and self-assembled monolayers with nm resolution*
- 26.09.2006 Emory University, Atlanta, GA, USA  
083 *THz and IR spectroscopy as a bridge between two worlds: A nanoscopic view of biological phenomena*
- 25.09.2006 Emory University, Atlanta, GA, USA  
082 *A closer look into the world of biomolecules: From the THz dance of water with proteins to chemical images of self-assembled monolayers and cells*
- 08.06.2006 Jahrestagung der Deutschen Gesellschaft für angewandte Optik (plenary talk), Weingarten  
081 *Set-up of a scanning near field infrared microscope (SNIM)*
- 11.05.2006 University of Wisconsin at Madison, WI, USA  
080 *New direction of IR and THz laser spectroscopy: Characterizing of surfaces and hydration shells*
- 03.05.2006 University of Illinois at Urbana-Champaign, IL, USA  
079 *New directions of IR and THz spectroscopy in condensed phase: From the observation of the hydration shell of sugars to the chemical nanoscopy of sub-surface species*
- 01.05.2006 Princeton University, NJ, USA  
078 *New directions of IR and THz spectroscopy: From the hydration shell of sugars and proteins to the IR spectroscopy of sub-surface species at 30 nm resolution*
- 24.04.2006 Emory University and Georgia Tech Institute, Atlanta, GA, USA  
077 *New Directions of IR and THz Laser Spectroscopy: Characterization of Surfaces and Hydration Shells*
- 03.04.2006 Forschungszentrum Karlsruhe  
076 *New directions of IR and THz spectroscopy – From the IR spectroscopy of sub-surface species at 30 nm resolution to the monitoring of the hydration shell of sugars*
- 14.03.2006 Frühjahrstagung der DPG (Plenarvortrag), Frankfurt  
075 *THz-Spektroskopie: Technologische Entwicklungen und ihre Anwendungen in der Biophysikalischen Chemie*
- 20.02.2006 Gordon Research Conference, Ventura, CA, USA  
074 *Probing phonon-rotational coupling: IR spectroscopy of dopants in helium nanodroplets*
- 27.01.2006 Kolloquium anlässlich des Tags der Chemie, RWTH Aachen  
073 *Mit dem Laser auf der Suche nach "chemischen Fingerabdrücken": Von tunnelnden Protonen und tanzenden Wassermolekülen*
- 2001-2005**
- 06.12.2005 Tag der Biomedizinischen Technik, Ruhr-Universität Bochum  
072 *Label-free infrared microscopy and nanoscopy*
- 21.11.2005 Workshop "Isolated Biomolecules and Biomolecular Building Blocks", Düsseldorf

- 071 *Aggregation and solvation: Proton transfer and solvens dynamics probed by IR and THz spectroscopy*
- 20.09.2005 Cavity Ring Down User Meeting 2005, Oxford, UK  
070 *THz cavity-enhanced attenuated total reflection spectroscopy*
- 22.07.2005 Intl. Society of Theoretical and Chemical Physics, New Orleans, LA, USA  
069 *Aggregation and Solvation: Proton transfer and solvent dynamics probed by IR and THz spectroscopy*
- 20.06.2005 60<sup>th</sup> Intl. Symposium on Molecular Spectroscopy (plenary talk), Columbus, OH, USA  
068 *Dynamics on hydrogen bonds - perspectives of infrared and far-infrared spectroscopy*
- 20.04.2005 Kolloquium, Universität Würzburg  
067 *Von der H-Brücke bis zur Proteindynamik: Möglichkeiten und Perspektiven der Infrarot- und THz-Spektroskopie*
- 31.03.2005 WE-Heraeus-Seminar, Bad Honnef  
066 *Collective excitations in quantum gases: spectroscopy of ultra-cold molecules in superfluid helium droplets*
- 11.01.2005 Kolloquium, Universität Graz, Austria  
065 *Spektraler Fingerabdruck oder Chemisches Nanoskop: Möglichkeiten der hochauflösenden THz- und Infrarotlaserspektroskopie*
- 20.12.2004 National Spectroscopy Meeting of the Royal Society of Chemistry (plenary talk), University of Leicester, UK  
064 *From H-bonds to living cells Challenges for IR laser spectroscopy*
- 13.12.2004 Conference on Dynamics of cold Molecules, Weizmann Institute, Tel Aviv, Israel  
063 *From aggregation to relaxation: IR-spectroscopy of molecules in He-nanodroplets*
- 16.11.2004 Conference on Single Cell Analysis, Universität Münster  
062 *Towards scanning (near field) infrared laser microscopy of cells*
- 01.10.2004 IRMMW 2004, Karlsruhe  
061 *Infrared laser microscopy of living cells using a cw optoparametric oscillator as radiation source*
- 26.08.2004 American Chemical Society National Meeting, Philadelphia, PA, USA  
060 *Probing relaxation in superfluid helium clusters: IR spectroscopy of CO and NO*
- 09.07.2004 Kolloquium, LMU München  
059 *Proceeding from hydrogen bonds towards protein structures by (Far) infrared laser spectroscopy*
- 21.06.2004 Kolloquium, Universität Kaiserslautern  
058 *Proceeding from hydrogen bonds toward protein structures by (Far) infrared laser spectroscopy*
- 11.05.2004 Kolloquium, ISAS Dortmund  
057 *Proceeding from hydrogen bond towards protein structures via (Far) Infrared laser spectroscopy*
- 14.01.2004 Kolloquium, Universität Freiburg

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- 056 *Proceeding from hydrogen bonds towards protein structures via (Far) infrared laser spectroscopy*
- 16.12.2003 Kolloquium, Universität Düsseldorf  
055 *Biophotonik im IR- und THz-Bereich*
- 01.10.2003 39th Symposium on Theoretical Chemistry, Gwatt, Switzerland  
054 *Hydrogen bonds: New answers to old questions*
- 16.09.2003 Horizons 2003, FU Berlin,  
053 *Proton tunneling in the formic acid dimer*
- 19.05.2003 Physical-Chemistry Seminar, Oxford, UK  
052 *From the THz to the IR or: How fast is the proton in formic acid dimer?*
- 30.04.2003 Kolloquium, Universität Frankfurt  
051 *Methoden der modernen Laserspektroskopie: Vom THz bis zum IR Bereich – Neue Antworten auf alte Fragen*
- 25.03.2003 DPG-Frühjahrstagung, Hannover  
050 *How fast are protons in double hydrogen bonds?*
- 08.01.2003 Kolloquium, Universität Dresden  
049 *Laserspektroskopie von Molekülen in Helium-Nanotröpfchen: Ungewöhnliche Beobachtungen in einer ultrakalten Matrix*
- 18.11.2002 Kolloquium, Universität Karlsruhe  
048 *Was lernen wir mithilfe von IR-Laserspektroskopie über Wasserstoffbrückenbindungen?*
- 31.10.2002 Kolloquium, FU Berlin  
047 *How fast is the proton in double hydrogen bonds? – High resolution spectroscopy of intermolecular complexes*
- 25.07.2002 EURESCO Tagung "Molecules of biological interest in the gas phase", Wildbad Kreuth  
046 *How fast are protons in double hydrogen bonds?*
- 11.05.2002 Bunsentagung Potsdam  
045 *Hochauflösende IR-Spektroskopie an Ameisensäuredimer- Ein Prototyp für den doppelten Protonentransfer*
- 10.04.2002 DFG Bonn "Wechselwirkung in ultrakalten Atom- und Molekülgasen"  
044 *IR-Spectroscopy of molecules in helium: Collective excitations in quantum liquids: spectroscopy of ultracold molecules in supra fluid helium droplets*
- 06.01.2002 Gordon Research Conference, Ventura, CA, USA  
043 *Introduction to high resolution spectroscopy of clusters*
- 27.06.2001 Intl. Symposium der Volkswagen-Stiftung, Schloß Mickeln, Düsseldorf  
042 *IR-spectroscopy as a tool for the understanding of hydrogen bonded complexes*
- 26.06.2001 Kolloquium, Universität Dortmund  
041 *Möglichkeiten der IR-Laserspektroskopie: Von Untersuchungen an H-Brücken bis zu Quantenanregungen in supraflüssigen Heliumtröpfchen*
- 20.03.2001 Kolloquium, Radboud University, Nijmegen, Netherlands  
040 *What IR spectroscopy tells us about hydrogen bonding?*

- 26.01.2001      Gemeinsames Kolloquium Universität Dortmund und RUB  
039              *Hochauflösende Laserspektroskopie – Anwendungen und Möglichkeiten*
- 18.01.2001      GDCh-Kolloquium, Universität Wuppertal  
038              *Was lernen wird mithilfe der Laserspektroskopie über Wasserstoffbrückenbindungen?*
- 1989-2000**
- 02.11.2000      GDCh-Kolloquium, Universität Bielefeld  
037              *Was lernen wird mithilfe der Laserspektroskopie über Wasserstoffbrückenbindungen?*
- 13.10.2000      SFB 334, Bonn  
036              *IR-Spectroscopy of high lying intermolecular modes of Ar-CO and spectroscopy of formic acid dimer*
- 18.09.2000      Max-Born-Institut Berlin  
035              *Was lernen wird mithilfe der Laserspektroskopie über H-Brücken?*
- 20.08.2000      200<sup>th</sup> ACS National Meeting, Washington DC, USA  
034              *Microwave-infrared double resonance spectroscopy of an OCS molecule inside in helium droplet*
- 18.08.2000      Princeton University, NJ, USA  
033              *Microwave-infrared double resonance spectroscopy of an OCS molecule inside helium droplets*
- 13.07.2000      Universität Konstanz  
032              *Ar-CO und (NH<sub>3</sub>)<sub>2</sub> - Zwei Prototypen für intermolekulare Wechselwirkung*
- 25.06.2000      Workshop on Quantum fluid clusters, Schloß Ringberg, Kreuth  
031              *Microwave-infrared double resonance spectroscopy of an OCS molecule inside <sup>4</sup>He droplets*
- 17.06.2000      SFB 452 Workshop, Hattingen  
030              *Spektroskopie an Molekülen in einer ultraweichen Matrix*
- 05.06.2000      Fakultät für Physik und Astronomie, Universität Bochum  
029              *Ar-CO und (NH<sub>3</sub>)<sub>2</sub> - Zwei Prototypen für intermolekulare Wechselwirkung*
- 17.04.2000      Gordon Research Conference "Molecular Ionic Cluster", Toulouse, France  
028              *What does infrared spectroscopy tell us about intermolecular forces?*
- 13.01.2000      Institut für Physikalische Chemie, Universität Göttingen  
027              *Was lernen wir mithilfe der Laserspektroskopie über Wasserstoffbrückenbindung?*
- 05.11.1999      Universität Kiel  
026              *Was lernen wir mithilfe der Laserspektroskopie über Wasserstoffbrückenbindung?*
- 18.06.1999      Fakultät für Chemie, Ruhr-Universität Bochum, Antrittsvorlesung  
025              *Laserspektroskopie: Möglichkeiten und Perspektiven*
- 26.05.1999      Konferenz, Niederpöcking  
024              *High resolution infrared spectroscopy on hydrogen bonded cluster: Formic acid dimer*
- 02.09.1998      PRAHA '98, Prag, Czech Republic  
023              *Infrared spectroscopy of hydrogen bonds*

- 13.05.1998      Universität Düsseldorf  
022              *Spektroskopie als Mittel zum Verständnis der intermolekularen Wechselwirkung*
- 19.08.1997      International Symposium on Free Radicals, Taellberg, Schweden  
021              *IR Spectroscopy of Radicals: A tool for the study of vibronic interaction*
- 14.05.1997      Universität Potsdam  
020              *Infrarotspektroskopie als Mittel zur Beantwortung von interdisziplinären Fragen*
- 22.04.1997      Ruhr-Universität Bochum  
019              *Spektroskopie als Mittel zum Verständnis der intermolekularen Wechselwirkung*
- 18.04.1997      Institut für Physikalische Chemie, TU Braunschweig  
018              *Ar-CO und (NH<sub>3</sub>)<sub>2</sub> - Zwei Prototypen für intermolekulare Wechselwirkung*
- 17.04.1997      Institut für Umweltphysik, Universität Osnabrück  
017              *Von interdisziplinären Fragen, intermolekularen Wechselwirkungen und interstellaren Wolken*
- 02.04.1997      DFG Berichtskolloquium zum Schwerpunkt "Molekulare Cluster"  
016              *Ar-CO: Neue Messungen und Test semiempirischer Potentialflächen*
- 23.01.1997      Institut für Physikalische Chemie, RWTH Aachen  
015              *Ar-CO und (NH<sub>3</sub>)<sub>2</sub> - Zwei Prototypen für intermolekulare Wechselwirkung*
- 12.01.1997      Konferenz "Moving Frontiers in Quantum Molecular Science", Bonn  
014              *Ar-CO and (NH<sub>3</sub>)<sub>2</sub> - Two prototype systems for intermolecular interaction*
- 13.05.1996      Workshop on potential surfaces of van der Waals complexes, Bonn  
013              *(NH<sub>3</sub>)<sub>2</sub> a hydrogen bonded complex? - The importance of large amplitude motions*
- 20.03.1996      Hauptvortrag DPG Frühjahrstagung, Rostock  
012              *Van-der-Waals-Komplexe - eine besondere Klasse von Molekülen*
- 05.03.1996      DLR, Institut für Weltraumsensorik, Berlin  
011              *Van-der-Waals-Komplexe im Labor - und im Weltall?*
- 12.01.1996      Laboratoire de Photophysique Moléculaire du CNRS, Orsay, France  
010.              *Infrared spectroscopy of van der Waals complexes*
- 20.12.1995      Universitätsklinik Essen  
009              *Was das Sternenlicht uns erzählt*
- 01.12.1995      Institut für Physikalische Chemie, Universität Düsseldorf  
008              *Infrarotspektroskopie an van-der-Waals-Komplexen*
- 27.11.1995      Max-Planck-Institut für Radioastronomie, Bonn  
007              *Van-der-Waals-Komplexe - eine besondere Klasse von Molekülen*
- 15.11.1995      Max-Planck-Institut für Strömungsforschung, Göttingen  
006              *Infrarotspektroskopie an van-der-Waals-Clustern*
- 20.10.1995      Physikalisches Institut, Universität Bonn  
005              *Van-der-Waals-Komplexe - eine besondere Klasse von Molekülen*
- 19.05.1995      Graduiertenkolleg, Fachbereich Physik, Universität Kaiserslautern  
004              *Infrarotspektroskopie an Clustern*

- 27.01.1995      Abteilung für Chemische Physik, Universität Kiel  
003              *Konzentrationsmodulationsspektroskopie an CO enthaltenden Komplexen*
- 10.01.1995      Gordon Research Conference on Atomic and Ionic Clusters  
002              Casa Sirena, Oxnard, CA, USA  
                    *Concentration modulation in the jet: (CO)<sub>2</sub> - a floppy molecule*
- 08.12.1989      Institut für Physikalische Chemie, Universität Frankfurt  
001              *Dipolmomentmessungen am HN<sub>2</sub><sup>+</sup>*