

2026

- 24.06.2026
367 TSRC Workshop "Hydrophobicity: From Theory, to Simulation, to Experiment"
Telluride Intermediate School, Telluride, CO, USA
Liquid-liquid phase separation – Ask the water!
- 15.06.2026
366 TSRC Workshop "Water Structure, Dynamics and Thermodynamics in Biology"
Telluride Science & Innovation Center, Telluride, CO, USA
Putting a spotlight on water in protein condensation
- 10.06.2026
365 Water Anomalies – Origin and Implications
Stockholm University, Albano Campus, Stockholm, Sweden
Caught in the act: Time-resolved THz spectroscopy puts the spotlight on the role of the solvent in photochemical reactions
- 01.04.2026
364 Bunsen-Tagung 2026 "Properties and Processes under Confinement" (plenary talk)
Technische Universität Dresden
Local thermodynamics and electric fields at an electrified interface
- 25.03.2026
363 Research Center Opening & RESOLV Event "Diving into the next era"
Deutsches Bergbau-Museum in Bochum
RESOLV – Diving into the next era
- 22.03.2026
362 ACS Spring Meeting - Electric Field Effects in Vibrational Spectroscopy
Georgia World Congress Center, Atlanta, GA, USA
Local thermodynamics and electric fields at an electrified interface
- 04.03.2026
361 Wissenschaftliche Sitzung der Klasse für Naturwissenschaften und Medizin
Nordrhein-Westfälische Akademie der Wissenschaften und der Künste, Düsseldorf
Der Oscar für den besten Nebendarsteller geht an: Wasser

2025

- 16.12.2025
360 Pacifichem 2025, Symposium "Isolation of transient species in superfluid helium droplets", Honolulu, Hawaii, USA
On the nature of hydrogen bonding in the H₂S dimer
- 16.12.2025
359 Pacifichem 2025, Symposium "Biomolecules at interfaces defining the cellular environment: From conformational dynamics to informatic approaches"
Honolulu, Hawaii, USA
Liquid-liquid phase separation – Ask the water!
- 11.12.2025
358 QCB Seminar, NSF Science and Technology Center for Quantitative Cell Biology
Beckman Institute, University of Illinois, IL, USA
Liquid-liquid phase separation – Ask the water!
- 10.12.2025
357 Department of Chemistry Colloquium, Northwestern University, IL, USA
Putting the spotlight on water in protein condensation
- 04.12.2025
356 Interfacial H₂O: Shaping the Electric Double Layer
Lorentz Center, Leiden, Netherlands
Observation of the reshaping of the electric double layer at electrified interfaces

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- 18.11.2025
355 From Molecular Beams to Nanomedicine: A Tribute to the Scientific Journey of Giacinto Scoles, International Centre for Theoretical Physics (ICTP), Trieste, Italy
Liquid-liquid phase separation – Ask the water!
- 16.09.2025
354 26th International Conference on Horizons in Hydrogen Bond Research
Deutsches Elektronen-Synchrotron DESY, Hamburg
To be or not to be hydrogen bonded: Supercritical water and (H₂S)₂
- 03.09.2025
353 HT-DYNA Workshop – Structural Dynamics of Elementary Proton Transport Processes
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
- 21.08.2025
352 50th International Conference on Infrared, Millimeter, and THz waves
(IRMMW-THz 2025), Aalto University, Espoo, Finland
THz spectroscopy spotlights the role of water in biological processes
- 19.07.2025
351 IUPAB/ABA Biophysics Satellite 2025
(International Union for Pure and Applied Biophysics)
Kuala Lumpur Convention Centre, Malaysia
Announcing the Oscar for best supporting actor: Water!
- 15.07.2025
350 IUPAC 2025 – 50th World Chemistry Congress "Chemistry for Sustainable Future"
(International Union of Pure and Applied Chemistry)
Kuala Lumpur Convention Centre, Malaysia
Putting the solvent in the spotlight
- 23.06.2025
349 16th Femtochemistry Conference (FEMTO 16) "Dynamics of Complex Molecular 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
348 Conference "Aqueous Systems: The Frontier and Beyond"
Grecotel Filoxenia, Kalamata, Greece
THz calorimetry probing the H-bonds in aqueous systems
- 12.05.2025
347 Faculty of Chemistry Colloquium, University of Vienna, Austria
Caught in the act: Time-resolved THz spectroscopy puts the spotlight on the role of the solvent into photochemical reactions
- 25.04.2025
346 Department of Chemical Engineering Colloquium, UC Santa Barbara, CA, USA
Liquid–liquid phase separation? Ask the water!
- 17.04.2025
345 Enrico Fermi Colloquium
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
344 Bioelectrodynamics Webinar (virtual talk)
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
343 ACS Spring Meeting - Reactivity in Microdroplets
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 H₂S dimer
- 09.01.2025 GDCH Vortrag, KIT, Karlsruhe
340 *Probing free energy in reactions by THz spectroscopy – Ask the water!*

2024

- 19.11.2024 International Conference on Optics Within Life Sciences (OWLS-17)
339 Indian Institute of Technology Bombay (IIT Bombay), Powai, Mumbai, India
Probing free energy in reactions by THz spectroscopy – Ask the water!
- 14.09.2024 133rd Assembly of the Society of German Natural Scientists and Physicians (GDNÄ)
338 (Gesellschaft Deutscher Naturforscher und Ärzte), University of Potsdam
Der Oscar für den besten Nebendarsteller geht an: Wasser
- 06.08.2024 GRC "Vibrational Spectroscopy"
337 Gordon Research Conference, Bryant University, Smithfield, RI, USA
Intermolecular vibrational spectroscopy meets calorimetry: Watching the solvent in action
- 05.07.2024 6th Italian Soft Days Conference, University of Florence, Italy
336 *Probing free energy in reactions by THz spectroscopy – Ask the water!*
- 02.07.2024 Molecular Biophysics Workshop (plenary talk)
335 Laboratoire Charles Coulomb, University of Montpellier, France
Probing free energy in reactions by THz spectroscopy – Ask the water!
- 24.06.2024 15th International Conference on Quantum Fluid Clusters
334 Aarhus Institute of Advanced Studies (AIAS), Aarhus University, Denmark
Hydrogen bonding in the H₂S dimer: New insights from experiment and theory
- 27.05.2024 WaterX International Workshop (plenary talk)
333 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 Nevada Distinguished Physical Chemistry Lectures
332 Knowledge Center Wells Fargo Auditorium, University of Nevada, Reno, NV, USA
Announcing the Oscar for Best Supporting Actor: Water
- 29.11.2023 Nevada Distinguished Physical Chemistry Lectures
331 Department of Chemistry, University of Nevada, Reno, NV, USA
Probing free energy in reactions by THz spectroscopy – Ask the water!

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- 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 266th 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 4th 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 (S³C 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 – 23rd 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 – 11th Conference on Broadband Dielectric Spectroscopy and its Applications, Donostia - San Sebastian, Spain
Probing local solvation dynamics

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- 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 XXth 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 11th 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 Seminar Journée IP2CT2021 (virtual talk)
305 hosted by Institut Parisien de Chimie Physique et Théorique (IP2CT), Paris, France
Spectroscopy in superfluid helium nanodroplets: "A cool topic"
- 22.06.2021 Conference on Lasers and Electro-Optics Europe (CLEO/Europe) and the European
304 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 Seminar Department of Physics, Freie Universität Berlin (virtual talk)
303 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 45th 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 15th 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 12th Intl. Photonics and OptoElectronics Meetings, POEM 2019, Wuhan, China
294
Observing the solvent quake by (non) linear THz spectroscopy
- 30.07.2019 The 14th Femtochemistry Conference, FEMTO 14, Shanghai, China
293
Studying solvation of photoexcited pyranine by non-linear THz spectroscopy

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- 18.06.2019
292 Workshop on Water structure, Dynamics and Thermodynamics in Biology
Telluride, CO, USA
Wrapping up hydrophobic hydration – locality matters
- 21.05.2019
291 WE-Heraeus Seminar Quantum Fluid Clusters 2019, Bad Honnef
Acid solvations versus dissociation at “Stardust conditions”: Reaction sequence Matters
- 13.12.2018
290 Intl. Conference in Complex & Functional Materials (ICCFM 2018) Kolkata, India
Studying solvation of photoexcited pyranine by non-linear THz spectroscopy
- 18.09.2018
289 Biennial Meeting of the German Biophysical Society, Düsseldorf
Water in biology
- 13.09.2018
288 Keynote speaker at IRMMW-THz 2018, Nagoya, Japan
Catching a glimpse of transient “ferroelectric” water and ultrafast solvent rearrangement by nonlinear THz spectroscopy
- 04.09.2018
287 10th Intl. Meeting on Photodynamics and related aspects (IMPRA)
Cartagena, Colombia
Studying solvation dynamics of photo-excited solutes by non-linear THz spectroscopy
- 07.06.2018
286 9th Intl. Meeting on Atomic and Molecular Physics and Chemistry (IMAMPC-2018)
Helmholtz Zentrum Berlin
It is water what matters
- 17.05.2018
285 GDCh-Kolloquium Universität Tübingen
It is water what matters
- 20.04.2018
284 Kolloquium Universität Hamburg
It is water what matters
- 04.03.2018
283 Austin Symposium on Molecular Structure and Dynamics, Dallas, Texas, USA
Stepwise Solvation at Ultracold Temperature
- 04.10.2017
282 8th Intl. THz-Bio Workshop, ENEA Frascati, Italy
Water mapping by THz calorimetry or where spectroscopy meets calorimetry
- 30.09.2017
281 Physikerinnentagung 2017, Ilmenau
It is water – what matters
- 31.07.2017
280 Workshop on Protein Dynamics, Telluride Science Research Center, CO, USA
Water mapping by THz calorimetry
- 28.06.2017
279 Workshop on Challenges in dissecting and understanding nuclear acid electrostatics
Telluride Science Research Center, CO, USA
Ion hydration as probed by THz spectroscopy
- 03.05.2017
278 Kolloquium Helmholtz-Zentrum Dresden-Rossendorf
It is water what matters: THz Spektroskopie – eine neue Methode zur Untersuchung von Solvationsprozessen
- 24.02.2017
277 Joint meeting German and Czech Biophysicists, Kloster Hünfeld
THz calorimetry in biophysics
- 03.02.2017
276 Sonderkolloquium Rheinische Friedrich-Wilhelms-Universität Bonn
“Völlig losgelöst”

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- 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 Gambinus Forum
272 *"Völlig losgelöst" Der THz-Tanz des Wassers*
- 28.10.2016 Reedijk Symposium 2016, Leiden, Netherlands
271 *Solvation Science – THz spectroscopy provides new answers to an old topic*
- 21.10.2016 24th 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 251st 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**
- 19.12.2015 Pacifichem, 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 Pacifichem, 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*

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- 16.04.2015 Tulip VI Summer School, Noordwijk, Netherlands
242 *Terahertz Sepctroscopy 2*
- 15.04.2015 Tulip VI Summer School, Noordwijk, Netherlands
241 *Terahertz Sepctroscopy 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*
- 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
231
- 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

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- 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 5th THz-Bio Workshop Seoul, Korea
- 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 20th Intl. Conference on Horizons in Hydrogen Bond Research, Antwerp, Belgium
- 214 *Rock and roll at 0.35 K*
- 30.08.2013 23rd 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

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- 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 4th 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*
- 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 244th 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 and 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

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- 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,
181 Trieste, Italy
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,
180 Andover, NH, USA
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-
175 Universität Bochum
Visionen lokal! Der internationale Masterstudiengang Molecular Sciences and Simulation
- 31.05.2011 482. WE Heraeus-Seminar: Helium-Nanodroplets – Confinement for cold molecules
174 and cold chemistry, Bad Honnef
Rock and Roll at 0.37 K

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- 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 3rd 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 2nd Intl. Conference on "Transient Chemical Structures in Dense media", Paris, France
166 *Dynamics of water molecule around proteins*
- 01.11.2010 1st 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*

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- 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*
- 17.12.2009 1st Workshop on TBONE Experiments and Applications, Karlsruhe
152 *Scanning near field infrared microscopy: Chemical Imaging on a nm scale*
- 01.12.2009 Intl. Workshop TeraTech09, Osaka, Japan
151 *The THz dance of the water with the protein*
- 19.11.2009 Physikalisches Kolloquium, Universität Rostock
150 *Ultrakalte Chemie: Höchstaufgelöste Spektroskopie im Helium-Nanotröpfchen*
- 07.11.2009 Physikerinnen-Tagung der DPG, Frankfurt
149 *Chemie bei ultrakalten Temperaturen: Beobachtung des kleinsten Tropfens Säure*
- 26.10.2009 Conference on Structure and Dynamics of Hydrogen-bonded systems, ICTP, Trieste, Italy
148 *Aggregation induced dissociation of HCl (H₂O)₄ below 1 K: The smallest droplet of acid*
- 15.09.2009 20th Intl. Congress on X-ray optics and microanalysis, Karlsruhe
147 *Scanning nearfield microscopy: Chemical imaging on a nm scale*
- 08.09.2009 Physikalisches Kolloquium, Universität Göteborg, Sweden
146 *Chemistry below 1 K: Observation of the smallest droplet of acid*
- 28.08.2009 SEADIM7 Conference, Varadero, Cuba
145 *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 Protein Dynamics Workshop, Telluride Science Research Center, CO, USA
144 *The THz dance of the water with the protein: Direct observation of collective solvent protein network motions*
- 20.07.2009 Vibrational Dynamics Workshop, Telluride Science Research Center, CO, USA
143 *Chemistry below 1 K: Observation of the smallest droplet of acid*
- 13.07.2009 Kolloquium, TU München
142 *From the smallest droplet of acid towards the THz dance of the protein with the water*
- 10.07.2009 41st EGAS 2009, Danzig, Poland
141 *Chemistry at ultracold temperatures: Observation of the smallest droplet of acid*
- 27.05.2009 Intl. workshop on Quantum Fluid Clusters, MPIKS, Dresden
140 *Aggregation induced dissociation of HCl(H₂O)₄ below 1 K: The smallest droplet of acid*
- 23.05.2009 Protein-Protein-Interactions: Experiment and Theory, Deutsche Gesellschaft für Biophysik, Hünfeld
139 *The THz dance of the protein with the water*

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- 11.05.2009 Protein and Water workshop, Tempe, AZ, USA
138 *The THz dance of the water with the protein*
- 15.04.2009 Purdue University, West Lafayette, IN, USA
137 *Understanding solvation dynamics: From the smallest droplet of acid towards the THz dance of the protein with the water*
- 20.03.2009 4th Ringberg Meeting on Molecular Physics 2009, Schloß Ringberg, Kreuth
136 *The smallest droplet of acid: IR high resolution spectroscopy of solvated HCl*
- 16.03.2009 Symposium, Universität Göttingen
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 Säuretropfen bis zur schnellen Solvatationsdynamik von Proteinen*
- 28.01.2009 Ultrafast Biochemistry Workshop, Basel, Switzerland
128 *Terahertz excitation of biomolecules*
- 20.01.2009 Kolloquium, Universität Stuttgart
127 *Vom kleinsten Säuretropfen 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 55th AVS Meeting, Boston, MA, USA

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- 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 the Bulk, Edinburgh, Scotland
118 *The Terahertz dance of water with the proteins: The effect of protein flexibility on the dynamical hydration shell of ubiquitin*
- 15.08.2008 33rd Intl. Conference on Infrared, Millimeter, and Terahertz Waves (keynote talk), Pasadena, CA, USA
117 *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 2nd Intl. Conference on Perspectives in Vibrational Spectroscopy (ICOPVS 2008), Trivandrum, India
110 *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, Netherlands
106 *The THz dance of the water with biomolecules*
- 03.12.2007 Kolloquium, Universität Bonn
105 *Ein mikroskopischer Blick auf Biomoleküle: Vom IR-Nahfeldeblick 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*
- 14.08.2007 29th 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 233rd 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*

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- 13.12.2006 Physikalisches Kolloquium, Universität Frankfurt
087 *Was "sehen" wir mit THz-Technologie? Von solvatisierten Proteinen und tanzenden Wassermolekülen*
- 12.11.2006 53rd 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*
- 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 60th 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

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- 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
- 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 wir mithilfe der Laserspektroskopie über Wasserstoffbrückenbindungen?*

1989-2000

- 02.11.2000 GDCh-Kolloquium, Universität Bielefeld
- 037 *Was lernen wir 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 wir mithilfe der Laserspektroskopie über H-Brücken?*
- 20.08.2000 200th 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 (NH₃)₂ - 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 ⁴He 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 (NH₃)₂ - 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?*

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- 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 (NH₃)₂ - 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 (NH₃)₂ - Zwei Prototypen für intermolekulare Wechselwirkung*
- 12.01.1997 Konferenz "Moving Frontiers in Quantum Molecular Science", Bonn
014 *Ar-CO and (NH₃)₂ - Two prototype systems for intermolecular interaction*
- 13.05.1996 Workshop on potential surfaces of van der Waals complexes, Bonn
013 *(NH₃)₂ 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 *Konzentrationsmodulationspektroskopie 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)₂ - a floppy molecule
- 08.12.1989 Institut für Physikalische Chemie, Universität Frankfurt
001 *Dipolmomentmessungen am HN₂⁺*