

2016-2020

- 18.11.2020 Training Event for the Fellows of the Innovative Training Network PROTON (virtual meeting), hosted from 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, IRMMW-THz 2020 (virtual meeting), 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 meeting), hosted from Santa Barbara, CA, USA
It is water what matters
- 18.08.2020 ACS Symposium "Biophysical Chemistry in Complex Environments" (virtual meeting), 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, USA
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
THz measurements to study solvation under extreme conditions
- 29.11.2019 Physikalisches Kolloquium, Universität Heidelberg
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
Observing the solvent quake by (non) linear THz spectroscopy
- 30.07.2019 The 14th Femtochemistry Conference, FEMTO 14, Shanghai, China
Studying solvation of photoexcited pyranine by non-linear THz spectroscopy
- 18.06.2019 Workshop on Water structure, Dynamics and Thermodynamics in Biology, Telluride, CO, USA
Wrapping up hydrophobic hydration – locality matters
- 21.05.2019 WE-Heraeus Seminar Quantum Fluid Clusters 2019, Bad Honnef
Acid solvations versus dissociation at "Stardust conditions": Reaction sequence Matters
- 13.12.2018 Intl. Conference in Complex & Functional Materials (ICCFM 2018) Kolkata, India
Studying solvation of photoexcited pyranine by non-linear THz spectroscopy
- 18.09.2018 Biennial Meeting of the German Biophysical Society, Düsseldorf
Water in biology
- 13.09.2018 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 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 9th Intl. Meeting on Atomic and Molecular Physics and Chemistry (IMAMPC-2018), Helmholtz Zentrum Berlin
It is water what matters
- 17.05.2018 GDCh-Kolloquium Universität Tübingen
It is water what matters
- 20.04.2018 Kolloquium Universität Hamburg
It is water what matters
- 04.03.2018 Austin Symposium on Molecular Structure and Dynamics, Dallas, Texas, USA
Stepwise Solvation at Ultracold Temperature
- 04.10.2017 8th Intl. THz-Bio Workshop, ENEA Frascati, Italy
Water mapping by THz calorimetry or where spectroscopy meets calorimetry
- 30.09.2017 Physikerinnentagung 2017, Ilmenau
It is water – what matters
- 31.07.2017 Workshop on Protein Dynamics, Telluride Science Research Center, CO, USA
Water mapping by THz calorimetry
- 28.06.2017 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 Kolloquium Helmholtz-Zentrum Dresden-Rossendorf
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
THz calorimetry in biophysics
- 03.02.2017 Sonderkolloquium Rheinische Friedrich-Wilhelms-Universität Bonn
"Völlig losgelöst"
- 08.12.2016 Photonics 2016 (plenary lecture), Kanpur, India
It is water what matters: THz absorption spectroscopy as a new tool to study solvation dynamics
- 01.12.2016 CECAM workshop Wien, Austria
THz spectroscopy and Solvation Science
- 22.11.2016 ISAS-Kolloquium Berlin
THz spectroscopy and Solvation Science
- 24.10.2016 Dortmunder Gambrinus Forum
"Völlig losgelöst" Der THz-Tanz des Wassers
- 28.10.2016 Reedijk Symposium 2016, Leiden, Netherlands

- Solvation Science – THz spectroscopy provides new answers to an old topic*
- 21.10.2016 24th Solvay Conference in Chemistry, Solvay Institute Bruxelles, Belgium
Water mapping in enzymatic catalysis by THz spectroscopy (THz calorimetry)
- 03.10.2016 Workshop Bio THz Göteborg, Sweden
It is water what matters – THz spectroscopy as a new tool to study biomolecular hydration
- 02.08.2016 Gordon Research Conference, Holderness, USA
Introduction to THz calorimetry: Hydration of hydrophobic surfaces
- 13.07.2016 Physikalisches Kolloquium, Universität Duisburg-Essen
THz spectroscopy and THz calorimetry as a novel tool in solvation science
- 14.06.2016 Colloquium, Universität Innsbruck, Austria
It is water which matters: from Ion hydration to THz calorimetry
- 28.04.2016 Kolloquium, ISAS Dortmund
It is water what matters – THz spectroscopy as a new tool to study biomolecular hydration
- 08.04.2016 FYSICA 2016, Radboud University, Nijmegen, Netherlands
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
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
Transient THz spectroscopy probes large amplitude motions of proteins and collective low frequency protein/hydration modes
- 10.03.2016 DPG Frühjahrstagung Regensburg
It is water what matters: THz absorption spectroscopy as a new tool to study solvation dynamics
- 06.03.2016 Austin Symposium, Dallas, TX, USA
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
It is water that matters: Spectroscopy probes solvation dynamics
- 15.01.2016 Center of NanoScience (CeNS Kolloquium), LMU München
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
1. Closing the THz gap: experimentally and theoretically
2. Application to solvation science: Ion hydration and biomolecular solvation

2011-2015

- 19.12.2015 Pacifichem, Honolulu, HI, USA

- THz time domain studies of water entrapped in micelles*
- 19.12.2015 Pacifichem, Honolulu, HI, USA
Microsolvation at 0.37 K: IR spectroscopic studies of aggregates in superfluid helium nanodroplets
- 19.12.2015 Pacifichem, Honolulu, HI, USA
It is water what matters: THz absorption spectroscopy as a powerful tool to study biomolecular hydration
- 14.10.2015 iCOMET, Chengdu, China
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
It is water what matters: The role of water in Enzymatic Catalysis
- 26.08.2015 IRMMW-THz Conference, Hong Kong
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
The hydrophobic collapse as probed by Kinetic THz absorption spectroscopy
- 30.06.2015 GDCh Kolloquium, RWTH Aachen
Exploring "Solvation Science" THz-spectroscopy as a tool to study solvation dynamics
- 22.06.2015 Intl. Symposium on Molecular Spectroscopy (plenary lecture), Urbana-Champaign, USA
It is water what matters: THz spectroscopy as a tool to study hydration dynamics
- 18.05.2015 50 Jahre 50 Vorträge, Ruhr-Universität Bochum
Es kommt auf das Lösungsmittel an
- 15.05.2015 Women's Networking Lunch, Bunsentagung 2015, Bochum
Why are we still few on the top? Dreams to be realized
- 11.05.2015 Seminarvortrag, UC Berkeley, CA, USA
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
It is water that matters: THz absorption studies as a tool to study biomolecular hydration
- 16.04.2015 Tulip VI Summer School, Noordwijk, Netherlands
Terahertz Spectroscopy 2
- 15.04.2015 Tulip VI Summer School, Noordwijk, Netherlands
Terahertz Spectroscopy 1
- 24.03.2015 Seminarvortrag Elettra, Trieste, Italy
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
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
It is water which matters: studying microsolvation by IR and THz spectroscopy
- 12.01.2015 Kolloquium, SFB 1078, FU Berlin
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
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
It is water which matters: studying microsolvation by IR and THz spectroscopy
- 23.09.2014 Seminarvortrag, UC Berkely, CA, USA
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
THz absorption spectroscopy a new tool to study solvation processes
- 07.08 2014 Gordon Research Conference Vibrational Spectroscopy, Biddeford ME, USA
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
- 02.07.2014 Laser Application and Life Sciences Conference, Ulm
Some like it cool – THz absorption as a tool to study biomolecular hydration
- 05.06.2014 Water 2014 workshop, Les Houches, France
Some like it cool - THz absorption spectroscopy of antifreeze proteins
- 19.05.2014 Workshop on Protein Dynamics TSRC Konferenz, Les Houches, France
Some like it cool - THz absorption spectroscopy of antifreeze proteins
- 25.04.2014 Lecture series, ETH Zürich, Switzerland
Some like it cool – THz absorption spectroscopy of AFP
- 25.04.2014 Lecture series, ETH Zürich, Switzerland
THz vibrational signatures of hydrated ions
- 24.04.2014 Kolloquium, Universität Bern, Switzerland
It is water which matters: Observing the rattling modes of ions in the THz range
- 22.04.2014 Lecture series, ETH Zürich, Switzerland
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
Introduction to the tools: Experimental and simulation
- 03.04.2014 5th THz-Bio Workshop Seoul, Korea
Observing the rattling modes of ions in the THz range
- 02.04.2014 5th THz-Bio Workshop Seoul, Korea

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

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- 25.01.2013 Kolloquium, Radboud University Nijmegen, Netherlands
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
Solvation – new answers to an old problem
- 08.01.2013 Societas Emeritorium Emeritarumque, Ruhr-Universität Bochum
Das Prinzip aller Dinge ist das Lösungsmittel
- 19.12.2012 Winter School in Theoretical Chemistry 2012, Helsinki, Finland
1. The THz dance of water - describing hydrogen network dynamics
2. The THz dance of water - experimental access to hydrogen network dynamics
- 21.11.2012 Kolloquium, Fritz-Haber-Institut Berlin
Water at interfaces - solvation of ions and proteins
- 01.10.2012 Polydays 2012, Berlin
THz spectroscopy: A novel experimental tool to study water network dynamics
- 21.08.2012 244th ACS meeting, Philadelphia, PA, USA
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
Der THz Tanz des Wassers mit den Biomolekülen
- 30.05.2012 FOR 618 Symposium Bochum
Rock and Roll at 0.35 K
- 20.05.2012 German-Russian Conference on Fundamentals and Application of Nanoscience, Berlin
Chemical imaging with nm resolution
- 16.04.2012 GDCh Kolloquium TU Braunschweig
Der THz Tanz des Wassers mit den Proteinen
- 26.03.2012 ACS National Meeting, San Diego, CA, USA
Correlated structural kinetics and retarded solvent dynamics at the metalloprotease active site
- 15.03.2012 DPG Frühjahrstagung (Plenarvortrag), Stuttgart
THz Spectroscopy: A novel experimental tool to study water network dynamics
- 01.02.2012 Gordon Research Conference on Molecular & Ionic Clusters Ventura, CA, USA
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
Watching the THz dance of water in the hydration shells of ions and biomolecules
- 05.12.2011 Hebrew University Jerusalem, Israel
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
THz spectroscopy: a novel tool to study water network dynamics
- 30.11.2011 Workshop "Perspective in THz spectroscopy with neutrons" Helmholtz Zentrum Berlin

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- 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
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
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
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
The THz dance of biomolecules in solution
- 29.07.2011 Workshop on Vibrational Dynamics, Telluride Science Research Center, CO, USA
Correlated structural kinetics and retarded solvent dynamics at the metalloprotease active site
- 05.07.2011 Hydroprot 2011 Conference, Paris, France
Watching the dance of ions and molecules in the THz
- 15.06.2011 Physikalisch-Chemisches Kolloquium, LMU München
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
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
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
Rock and Roll at 0.37 K
- 22.05.2011 Conference on Lasers and Electro-Optic Europe, München
Watching the dance of ions and molecules in the THz
- 30.04.2011 3rd Meeting "From the witches cauldrons in materials science", Goslar
Mapping chemical surfaces by IR nanoscopy
- 07.04.2011 Faraday Discussion 150 Frontiers in Spectroscopy, Basel, Switzerland
The THz dance of the protein with the water
- 04.04.2011 Workshop on Water, Max-Born-Institut Berlin
Watching the dance of ions and molecules in the THz

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

2006-2010

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

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- 17.12.2009 1st Workshop on TBONE Experiments and Applications, Karlsruhe
Scanning near field infrared microscopy: Chemical Imaging on a nm scale
- 01.12.2009 Intl. Workshop TeraTech09, Osaka, Japan
The THz dance of the water with the protein
- 19.11.2009 Physikalisches Kolloquium, Universität Rostock
Ultrakalte Chemie: Höchstaufgelöste Spektroskopie im Helium-Nanotröpfchen
- 07.11.2009 Physikerinnen-Tagung der DPG, Frankfurt
Chemie bei ultrakalten Temperaturen: Beobachtung des kleinsten Tropfens Säure
- 26.10.2009 Conference on Structure and Dynamics of Hydrogen-bonded systems, ICTP, Trieste, Italy
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
Scanning nearfield microscopy: Chemical imaging on a nm scale
- 08.09.2009 Physikalisches Kolloquium, Universität Göteborg, Sweden
Chemistry below 1 K: Observation of the smallest droplet of acid
- 28.08.2009 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 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 Vibrational Dynamics Workshop, Telluride Science Research Center, CO, USA
Chemistry below 1 K: Observation of the smallest droplet of acid
- 13.07.2009 Kolloquium, TU München
From the smallest droplet of acid towards the THz dance of the protein with the water
- 10.07.2009 41st EGAS 2009, Danzig, Poland
Chemistry at ultracold temperatures: Observation of the smallest droplet of acid
- 27.05.2009 Intl. workshop on Quantum Fluid Clusters, MPIKS, Dresden
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
The THz dance of the protein with the water
- 11.05.2009 Protein and Water workshop, Tempe, AZ, USA
The THz dance of the water with the protein
- 15.04.2009 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 4th 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

- 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
The THz dance of the protein with water
- 06.03.2009 Emory University, Atlanta, GA, USA
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
The THz dance of water with the protein
- 26.02.2009 Workshop Neutrons and X-rays meet biology, Helmholtz Zentrum Berlin
The THz dance of the water
- 12.02.2009 TBONE workshop ANKA, Karlsruhe
The THz dance of the protein with the water
- 11.02.2009 Kolloquium, Universität Kaiserslautern
Solvatation neu aufgerollt: Vom kleinsten Säuretröpfchen bis zur schnellen Solvationsdynamik von Proteinen
- 28.01.2009 Ultrafast Biochemistry Workshop, Basel, Switzerland
Terahertz excitation of biomolecules
- 20.01.2009 Kolloquium, Universität Stuttgart
Vom kleinsten Säuretröpfchen bis zum THz Tanz des Wassers mit den Proteinen
- 17.12.2008 Laser centre symposium 2008, Vrije Universiteit Amsterdam, Netherlands
The THz dance of the protein with the water
- 15.12.2008 Princeton, NJ, USA
Introduction to Spectroscopy in ultracold Helium nanodroplets
- 08.11.2008 Alexander von Humboldt-Kolloquium, Varanasi, India
The THz dance of the protein with the water
- 29.10.2008 AMO physics section meeting of the Dutch Physics Society, Lunteren, Netherlands
The THz dance of the protein with the water
- 24.10.2008 Kolloquium, Universität Freiburg
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
Vibrational imaging with nm resolution: Scanning Near Field Infrared Microscopy (SNIM) on surfaces
- 29.09.2008 European Optical Society (EOS) meeting, Paris, France
Scanning near field infrared microscopy (SNIM): Combining topographical and optical information
- 25.09.2008 Intchem Summer School und Forschergruppe 618-Workshop, Leśna, Poland
Microsolvation of acids studied at ultracold temperatures

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- 28.08.2008 The Royal Society of Chemistry Faraday Discussion 141: Water - From Interfaces to 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 33rd Intl. Conference on Infrared, Millimeter, and Terahertz Waves (keynote talk), Pasadena, CA, USA
The THz dance of water with the protein
- 06.08.2008 Gordon Research Conference on Vibrational Spectroscopy, South Hadley, MA, USA
High resolution laser spectroscopy of molecular aggregates in superfluid helium nanodroplets: The smallest droplet of acid
- 11.06.2008 Graduiertenkolleg-Kolloquium FU Berlin
THz dance of the water with biomolecules
- 27.05.2008 Workshop on Bionanointerfaces, Portoroz, Croatia
The THz and IR look on surfaces and interfaces
- 21.05.2008 Verleihung des Erfinderpreises 2007 der rubitec GmbH, Bochum
Entwicklung eines neuartigen Mikro-/Nanoskops
- 16.04.2008 Eduard-Zintel-Kolloquium, TU Darmstadt
Der "THz-Tanz" des Wassers mit den Biomolekülen
- 03.04.2008 Analytica Konferenz, München
Der THz Tanz des Wassers mit den Proteinen
- 27.02.2008 2nd Intl. Conference on Perspectives in Vibrational Spectroscopy (ICOPVS 2008), 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
IR nearfield microscopy: principles and applications
- 28.01.2008 GdCH-Kolloquium, Universität Regensburg
Von der Mikrosolvatation bis zum "THz-Tanz" der Proteine
- 18.12.2007 Kolloquium, Universität Münster
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
The THz dance of the water with biomolecules
- 03.12.2007 Kolloquium, Universität Bonn
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
A closer look on surfaces and interfaces by IR- and THz laser spectroscopy
- 08.11.2007 Seminarvortrag, Universität Zürich, Switzerland
The THz dance of water with biomolecules
- 18.10.2007 Kolloquium, Freiburger Physiktage, Universität Freiburg
Der THz-Tanz des Wassers mit den Biomolekülen

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- 14.08.2007 29th Intl. Symposium on Free Radicals, Big Sky, MT, USA
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
The THz dance of water with biomolecules
- 31.07.2007 Workshop on Protein dynamics, Telluride Science Research Center, CO, USA
The THz dance of the protein with the water
- 11.07.2007 Seminar am MPI für molekulare Physiologie, Dortmund
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
IR spectroscopy in ultracold heliumnanodroplets
- 04.05.2007 Physikalisches Kolloquium, Universität Heidelberg
Was "sehen" wir mithilfe der IR- und THz Lasertechnologie?
- 16.04.2007 Spring College on "Water in Physics, Chemistry and Biology", Trieste
Probing solvation dynamics in the sub-psec regime: Experimental probes (Part I)
Probing solvation dynamics in the sub-psec regime by THz spectroscopy (Part II)
- 10.04.2007 Rundgespräch der DFG "Cold Reaction Dynamics" Physikzentrum Bad Honnef
Mikrosolvatation und -aggregation in ultrakalten Heliumnanotröpfchen
- 29.03.2007 233rd American Chemical Society Meeting, Symposium on Vibrational Spectroscopy 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
Scanning nearfield infrared microscopy: Chemical imaging with nm resolution
- 06.03.2007 Terahertz-Spektroskopie College Tag, Göttingen
Der THz Tanz des Wassers mit Biomolekülen
- 07.02.2007 Nordrhein-Westfälische Akademie der Wissenschaften, Düsseldorf
Auf der Suche nach dem "chemischen Fingerabdruck": Neue Perspektiven der Infrarot- und THz-Spektroskopie
- 17.01.2007 GDCh Kolloquium, Universität Marburg
Tunnelnde Protonen und tanzende Wassermoleküle: Ein mikroskopischer Blick durch die IR- und THz-Brille
- 13.12.2006 Physikalisches Kolloquium, Universität Frankfurt
Was "sehen" wir mit THz-Technologie? Von solvatisierten Proteinen und tanzenden Wassermolekülen
- 12.11.2006 53rd AVS International Symposium & Exhibition, San Francisco, CA, USA
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, USA
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
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
THz and IR spectroscopy as a bridge between two worlds: A nanoscopic view of biological phenomena
- 25.09.2006 Emory University, Atlanta, GA, USA
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
Set-up of a scanning near field infrared microscope (SNIM)
- 11.05.2006 University of Wisconsin at Madison, WI, USA
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
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
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
New Directions of IR and THz Laser Spectroscopy: Characterization of Surfaces and Hydration Shells
- 03.04.2006 Forschungszentrum Karlsruhe
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, Frankfurt
Plenarvortrag: THz-Spektroskopie: Technologische Entwicklungen und ihre Anwendungen in der Biophysikalischen Chemie
- 20.02.2006 Gordon Research Conference, Ventura, CA, USA
Probing phonon-rotational coupling: IR spectroscopy of dopants in helium nanodroplets
- 27.01.2006 Kolloquium anlässlich des Tags der Chemie, RWTH Aachen
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
Label-free infrared microscopy and nanoscopy
- 21.11.2005 Workshop "Isolated Biomolecules and Biomolecular Building Blocks", Düsseldorf

- 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
THz cavity-enhanced attenuated total reflection spectroscopy
- 22.07.2005 Intl. Society of Theoretical and Chemical Physics, New Orleans, Louisiana, USA
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
Dynamics on hydrogen bonds - perspectives of infrared and far-infrared spectroscopy
- 20.04.2005 Kolloquium, Universität Würzburg
Von der H-Brücke bis zur Proteindynamik: Möglichkeiten und Perspektiven der Infrarot- und THz-Spektroskopie
- 31.03.2005 WE-Heraeus-Seminar, Bad Honnef
Collective excitations in quantum gases: spectroscopy of ultra-cold molecules in superfluid helium droplets
- 11.01.2005 Kolloquium, Universität Graz, Austria
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
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
From aggregation to relaxation: IR-spectroscopy of molecules in He-nanodroplets
- 16.11.2004 Conference on Single Cell Analysis, Universität Münster
Towards scanning (near field) infrared laser microscopy of cells
- 01.10.2004 IRMMW 2004, Karlsruhe
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
Probing relaxation in superfluid helium clusters: IR spectroscopy of CO and NO
- 09.07.2004 Kolloquium, LMU München
Proceeding from hydrogen bonds towards protein structures by (Far) infrared laser spectroscopy
- 21.06.2004 Kolloquium, Universität Kaiserslautern
Proceeding from hydrogen bonds toward protein structures by (Far) infrared laser spectroscopy
- 11.05.2004 Kolloquium, ISAS Dortmund
Proceeding from hydrogen bond towards protein structures via (Far) Infrared laser spectroscopy
- 14.01.2004 Kolloquium, Universität Freiburg

- Proceeding from hydrogen bonds towards protein structures via (Far) infrared laser spectroscopy*
- 16.12.2003 Kolloquium, Universität Düsseldorf
Biophotonik im IR- und THz-Bereich
- 01.10.2003 39th Symposium on Theoretical Chemistry, Gwatt, Switzerland
Hydrogen bonds: New answers to old questions
- 16.09.2003 Horizons 2003, FU Berlin,
Proton tunneling in the formic acid dimer
- 19.05.2003 Physical-Chemistry Seminar, Oxford, UK
From the THz to the IR or: How fast is the proton in formic acid dimer?
- 30.04.2003 Kolloquium, Universität Frankfurt
Methoden der modernen Laserspektroskopie: Vom THz bis zum IR Bereich – Neue Antworten auf alte Fragen
- 25.03.2003 DPG-Frühjahrstagung, Hannover
How fast are protons in double hydrogen bonds?
- 08.01.2003 Kolloquium, Universität Dresden
Laserspektroskopie von Molekülen in Helium-Nanotröpfchen: Ungewöhnliche Beobachtungen in einer ultrakalten Matrix
- 18.11.2002 Kolloquium, Universität Karlsruhe
Was lernen wir mithilfe von IR-Laserspektroskopie über Wasserstoffbrückenbindungen?
- 31.10.2002 Kolloquium, FU Berlin
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
How fast are protons in double hydrogen bonds?
- 11.05.2002 Bunsentagung Potsdam
Hochauflösende IR-Spektroskopie an Ameisensäuredimer- Ein Prototyp für den doppelten Protonentransfer
- 10.04.2002 DFG Bonn "Wechselwirkung in ultrakalten Atom- und Molekülgasen"
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
Introduction to high resolution spectroscopy of clusters
- 27.06.2001 Intl. Symposium der Volkswagen-Stiftung, Schloß Mickeln, Düsseldorf
IR-spectroscopy as a tool for the understanding of hydrogen bonded complexes
- 26.06.2001 Kolloquium, Universität Dortmund
Möglichkeiten der IR-Laserspektroskopie: Von Untersuchungen an H-Brücken bis zu Quantenanregungen in supraflüssigen Heliumtröpfchen
- 20.03.2001 Kolloquium, Radboud University, Nijmegen, Netherlands
What IR spectroscopy tells us about hydrogen bonding?

- 26.01.2001 Gemeinsames Kolloquium Universität Dortmund und RUB
Hochauflösende Laserspektroskopie – Anwendungen und Möglichkeiten
- 18.01.2001 GDCh-Kolloquium, Universität Wuppertal
Was lernen wir mithilfe der Laserspektroskopie über Wasserstoffbrückenbindungen?
- 1989-2000**
- 02.11.2000 GDCh-Kolloquium, Universität Bielefeld
Was lernen wir mithilfe der Laserspektroskopie über Wasserstoffbrückenbindungen?
- 13.10.2000 SFB 334, Bonn
IR-Spectroscopy of high lying intermolecular modes of Ar-CO and spectroscopy of formic acid dimer
- 18.09.2000 Max-Born-Institut Berlin
Was lernen wir mithilfe der Laserspektroskopie über H-Brücken?
- 20.08.2000 200th ACS National Meeting, Washington DC, USA
Microwave-infrared double resonance spectroscopy of an OCS molecule inside in helium droplet
- 18.08.2000 Princeton University, NJ, USA
Microwave-infrared double resonance spectroscopy of an OCS molecule inside helium droplets
- 13.07.2000 Universität Konstanz
Ar-CO und (NH₃)₂ - Zwei Prototypen für intermolekulare Wechselwirkung
- 25.06.2000 Workshop on Quantum fluid clusters, Schloß Ringberg, Kreuth
Microwave-infrared double resonance spectroscopy of an OCS molecule inside ⁴He droplets
- 17.06.2000 SFB 452 Workshop, Hattingen
Spektroskopie an Molekülen in einer ultraweichen Matrix
- 05.06.2000 Fakultät für Physik und Astronomie, Universität Bochum
Ar-CO und (NH₃)₂ - Zwei Prototypen für intermolekulare Wechselwirkung
- 17.04.2000 Gordon Research Conference "Molecular Ionic Cluster", Toulouse, France
What does infrared spectroscopy tell us about intermolecular forces?
- 13.01.2000 Institut für Physikalische Chemie, Universität Göttingen
Was lernen wir mithilfe der Laserspektroskopie über Wasserstoffbrückenbindung?
- 05.11.1999 Universität Kiel
Was lernen wir mithilfe der Laserspektroskopie über Wasserstoffbrückenbindung?
- 18.06.1999 Fakultät für Chemie, Ruhr-Universität Bochum, Antrittsvorlesung
Laserspektroskopie: Möglichkeiten und Perspektiven
- 26.05.1999 Konferenz, Niederpöcking
High resolution infrared spectroscopy on hydrogen bonded cluster: Formic acid dimer
- 02.09.1998 PRAHA '98, Prag, Czech Republic
Infrared spectroscopy of hydrogen bonds

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- 13.05.1998 Universität Düsseldorf
Spektroskopie als Mittel zum Verständnis der intermolekularen Wechselwirkung
- 19.08.1997 International Symposium on Free Radicals, Taellberg, Schweden
IR Spectroscopy of Radicals: A tool for the study of vibronic interaction
- 14.05.1997 Universität Potsdam
Infrarotspektroskopie als Mittel zur Beantwortung von interdisziplinären Fragen
- 22.04.1997 Ruhr-Universität Bochum
Spektroskopie als Mittel zum Verständnis der intermolekularen Wechselwirkung
- 18.04.1997 Institut für Physikalische Chemie, TU Braunschweig
Ar-CO und (NH₃)₂ - Zwei Prototypen für intermolekulare Wechselwirkung
- 17.04.1997 Institut für Umweltphysik, Universität Osnabrück
Von interdisziplinären Fragen, intermolekularen Wechselwirkungen und interstellaren Wolken
- 02.04.1997 DFG Berichtskolloquium zum Schwerpunkt "Molekulare Cluster"
Ar-CO: Neue Messungen und Test semiempirischer Potentialflächen
- 23.01.1997 Institut für Physikalische Chemie, RWTH Aachen
Ar-CO und (NH₃)₂ - Zwei Prototypen für intermolekulare Wechselwirkung
- 12.01.1997 Konferenz "Moving Frontiers in Quantum Molecular Science", Bonn
Ar-CO and (NH₃)₂ - Two prototype systems for intermolecular interaction
- 13.05.1996 Workshop on potential surfaces of van der Waals complexes, Bonn
(NH₃)₂ a hydrogen bonded complex? - The importance of large amplitude motions
- 20.03.1996 Hauptvortrag DPG Frühjahrstagung, Rostock
Van-der-Waals-Komplexe - eine besondere Klasse von Molekülen
- 05.03.1996 DLR, Institut für Weltraumsensorik, Berlin
Van-der-Waals-Komplexe im Labor - und im Weltall?
- 12.01.1996 Laboratoire de Photophysique Moléculaire du CNRS, Orsay, France
Infrared spectroscopy of van der Waals complexes
- 20.12.1995 Universitätsklinik Essen
Was das Sternenlicht uns erzählt
- 01.12.1995 Institut für Physikalische Chemie, Universität Düsseldorf
Infrarotspektroskopie an van-der-Waals-Komplexen
- 27.11.1995 Max-Planck-Institut für Radioastronomie, Bonn
Van-der-Waals-Komplexe - eine besondere Klasse von Molekülen
- 15.11.1995 Max-Planck-Institut für Strömungsforschung, Göttingen
Infrarotspektroskopie an van-der-Waals-Clustern
- 20.10.1995 Physikalisches Institut, Universität Bonn
Van-der-Waals-Komplexe - eine besondere Klasse von Molekülen
- 19.05.1995 Graduiertenkolleg, Fachbereich Physik, Universität Kaiserslautern
Infrarotspektroskopie an Clustern

- 27.01.1995 Abteilung für Chemische Physik, Universität Kiel
Konzentrationsmodulationsspektroskopie an CO enthaltenden Komplexen
- 10.01.1995 Gordon conference on atomic and ionic clusters Casa Sirena, Oxnard, CA, USA
Concentration modulation in the jet: (CO)₂ - a floppy molecule
- 08.12.1989 Institut für Physikalische Chemie, Universität Frankfurt
Dipolmomentmessungen am HN₂⁺