

Curriculum Vitae

Personal Information

Name **Dr. Maren Podewitz**
Address Institute of General, Inorganic
and Theoretical Chemistry,
Innrain 80/82, 6020 Innsbruck, Austria
Phone +43 512 507 57104
E-Mail maren.podewitz@uibk.ac.at
Homepage <http://homepage.uibk.ac.at/~c72448/podewitz.html>
ORCID: [0000-0001-7256-1219](https://orcid.org/0000-0001-7256-1219)
Google Scholar: [Link](#)

Research Interests

Multiscale Modelling in (Bio-)Catalysis and Materials Science: understanding functionality and selectivity of chemical reactions and molecular structures by means of computational chemistry with a focus on assessing reaction mechanisms of transition-metal catalysts and elucidating physicochemical properties of biomimetic compounds, biomolecules, and novel materials.

Education

01.2008 – 12.2010 PhD in Theoretical Chemistry, Advisor: Prof. Dr. M. Reiher, Laboratory of Physical Chemistry, ETH Zürich, Switzerland
Title: *Structure Determining Interactions in Polynuclear Metal Clusters*
10.2002 – 10.2007 Bachelor and Master of Science in Chemistry (Diplomchemikerin) (grade: excellent), Friedrich-Schiller-University, Jena, Germany
08.2005 – 07.2006 Studies of Theoretical and Physical Chemistry, Gothenburg University, Gothenburg, Sweden
08.1995 – 06.2002 Abitur (A-levels) Albert-Einstein-Gymnasium (grade: excellent), Buchholz in der Nordheide, Germany

Professional Experience

since 05.2017 *Lise Meitner Fellow*, University of Innsbruck, Austria; supervisor of independent research projects in computational chemistry, national and international collaboration with experimental chemists in the fields of inorganic chemistry
since 08.2014 *University Assistant* in the group of Prof. Dr. K. R. Liedl, University of Innsbruck, Austria; supervisor of research projects in computational chemistry, supervision of bachelor's and master's theses, co-advisor of PhD theses, teaching
08.2012 – 07.2014 *Quantitative Risk Analyst (non-academic position, career break)*, life insurance, PAX Lebensversicherungs-Gesellschaft AG, Basel, Switzerland; quantitative risk management, modelling of market risks in MATLAB, development and implementation of quantitative measures to estimate the financial risk of assets
08.2011 – 07.2012 *Postdoctoral Scholar* in the group of Prof. Dr. K. N. Houk, University of California Los Angeles, USA; led research projects in enzyme design and physical-organic chemistry

- 01.2008 – 07.2011 *Research Assistant* in the group of Prof. Dr. M. Reiher, ETH Zürich, Switzerland: co-led research projects in bioinorganic and theoretical chemistry, supervision of student research projects, teaching assistance
- 01.2007 – 04.2007 *Tutor* Friedrich-Schiller-University, Jena, Germany; supervision of laboratory work in physical and analytical chemistry, evaluation of lab reports; teaching assistant for biology students

Grant and Scholarship Acquisition

- 2017–2021 Lise Meitner Fellowship of the Austrian Science Fund (FWF) for postdoctoral research, EUR 161.220
- 2016–2018 Tyrolean Science Fund TWF, EUR 12.000, PI
- 2012 GAIN travel grant, EUR 1.000
- 2011–2012 Fellowship of the German Academic Exchange Service (DAAD) for postdoctoral research, EUR 40.000
- 2011 Scholarship of the Swiss National Science Foundation (SNF) for prospective researchers (declined, incompatible with DAAD fellowship) CHF 50.000
- 2009 ETH Zürich travel grant, CHF 2.000
- 2004–2007 Scholarship of the German Academic Scholarship Foundation (Studienstiftung des deutschen Volkes), EUR 10.000
- 2002–2004 Scholarship for bachelor studies of the “Fond der Chemischen Industrie”, EUR 9.900

Prizes and Awards

- 2019 Best oral presentation award, International Symposium on Olefin Metathesis and Related Chemistry, Barcelona Spain.
- 2005 Award for outstanding performance, BSc. Chemistry, German Chemical Society, Division Jena, Germany
- 2002 1st prize Youth Research Competition (Jugend Forscht), national level
Special Award Youth Research Competition (Jugend Forscht), federal level

Main Collaboration Partners

- Since 2018 Prof. Dr. Ivan Castillo, Universidad Nacional Autónoma de México, Mexico
- Since 2017 Prof. Dr. Michael R. Buchmeiser, University of Stuttgart, Germany
- Since 2016 Prof. Dr. Hubert Huppertz, University of Innsbruck, Austria
- Since 2015 Prof. Dr. Bernhard Kräutler, University of Innsbruck, Austria

Peer-Reviewed Publications

Published

1. Eva-Maria Köck, Jürgen Bernard, [Maren Podewitz](#), Dennis F. Dinu, Roland G. Huber, Klaus R. Liedl, Hinrich Grothe, Erminald Bertel, Robert Schlögl, Thomas Loerting. "Alpha carbonic acid revisited Carbonic acid monomethyl ester as a solid and its conformational isomerism in the gas phase", *Chemistry – A European Journal*, **26** (2020), 285-305. DOI: 10.1002/chem.201904142. IF: 5.2.
2. Dennis Dinu, Benjamin Ziegler, [Maren Podewitz](#), Klaus R. Liedl, Thomas Loerting, Hinrich Grothe, Guntram Rauhut. "The Interplay of VSCF/VCI calculations and Matrix-Isolation IR Spectroscopy - Mid Infrared Spectrum of CH₃CH₂F and CD₃CD₂F", *Journal of Molecular Spectroscopy*, **367** (2020), 111224. DOI: 10.1016/j.jms.2019.111224. IF: 2.3.
3. Elisabeth Selb, Lisa Declara, Lkhamsuren Bayarjargal, [Maren Podewitz](#), Martina Tribus, Gunther Heymann. "Crystal Structure and Properties of a UV-transparent High-Pressure Polymorph of Mg₃TeO₆ with Second Harmonic Generation Response", *European Journal of Inorganic Chemistry*, **43** (2019), 4668-4676. DOI: 10.1002/ejic.201900998. IF: 2.6.
4. [Maren Podewitz](#),⁺ Yin Wang,⁺ Patrick K. Quoika, Johannes R. Loeffler, Michael Schauerl, Klaus R. Liedl. "Coil-Globule Transition Thermodynamics of Poly(N-isopropylacrylamide)", *Journal of Physical Chemistry B*, **123** (2019), 8838-8847. DOI: 10.1021/acs.jpcc.9b06125. IF: 2.9. ⁺equally contributed.
5. Dennis F. Dinu, [Maren Podewitz](#), Hinrich Grothe, Klaus R. Liedl, Thomas Loerting. "Toward Elimination of Discrepancies Between Theory and Experiment: Anharmonic Rotational-Vibrational Spectrum of Water in Solid Noble Gas Matrices", *Journal of Physical Chemistry A*, **123** (2019), 8234-8242. DOI: 10.1021/acs.jpca.9b07221. IF: 2.8.
6. Christoph Kieninger,⁺ Joseph A. Baker,⁺ [Maren Podewitz](#),⁺ Klaus Wurst, Stefan Jokusch, Andrew D. Lawrence, Evelyne Deery, Karl Gruber, Klaus R. Liedl, Martin J. Warren, Bernhard Kräutler. "Zinc Substitution of Cobalt in Vitamin B₁₂ - Zincobyrinic acid and Zincobalamin as Luminescent Structural B₁₂-Mimics", *Angewandte Chemie International Edition*, **58** (2019), 14568–14572. DOI:10.1002/anie.201908428. IF: 12.1. ⁺equally contributed.
7. Christoph Kieninger,⁺ Evelyne Deery,⁺ Andrew D. Lawrence,⁺ [Maren Podewitz](#),⁺ Klaus Wurst, Emi Nemoto-Smith, Florian J. Widner, Joseph A. Baker, Steffen Jockusch, Christoph R. Kreutz, Klaus R. Liedl, Karl Gruber, Martin J. Warren, Bernhard Kräutler. "The Corrin Ligand is a Molecular Entatic State Module Evolved to Enhance Catalysis by B12-Cofactors", *Angewandte Chemie International Edition*, **58** (2019), 10756–10760. DOI: 10.1002/anie.201904713. IF: 12.1. ⁺equally contributed.
8. Katharina Herz, [Maren Podewitz](#),^{*} Laura Stöhr, Dongren Wang, Wolfgang Frey, Klaus R. Liedl, Suman Sen, Michael R. Buchmeiser^{*}. "Mechanism of Olefin Metathesis with Neutral and Cationic Molybdenum Imido Alkylidene N Heterocyclic Carbene", *Journal of the American Chemical Society*, **141** (2019), 8264–8276. DOI: 10.1021/jacs.9b02092.
9. Theresia Erhart, Cecilia Mittelberger, Xiujun Liu, [Maren Podewitz](#), Chengjie Li, Gerhard Scherzer, Gertrud Stoll, Josep Valls, Peter Robatscher, Klaus R. Liedl, Michael Oberhuber, Bernhard Kräutler. "Novel Types of Hypermodified Fluorescent Phyllobilins from Breakdown of Chlorophyll in Senescent Leaves of Grapevine (*Vitis vinifera*)", *Chemistry – A European Journal*, **24** (2018), 17268-17279. DOI: 10.1002/chem.201803128.
10. Steffen Spieler, Dennis F. Dinu, Pavol Jusko, Björn Bastian, Malcolm Simpson, [Maren Podewitz](#), Klaus R. Liedl, Stephan Schlemmer, Sandra Brünken, Roland Wester. "Low Frequency Vibrational Anharmonicity and Nuclear Spin Effects of Cl⁻(H₂) and Cl⁻(D₂)", *Journal of Chemical Physics*, **149** (2018), 17310. DOI: 10.1063/1.5049680.

11. Maren Podewitz, Yin Wang, Paraskevi Gkeka, Susanne von Grafenstein, Klaus R. Liedl, Zoe Cournia. "Phase Diagram of a Stratum Corneum Lipid Mixture", *Journal of Physical Chemistry B*, **122** (2018), 10505-10521. DOI: 10.1021/acs.jpccb.8b07200.
12. Birgit J. Waldner, Johannes Kraml, Ursula Kahler, Alexander Spinn, Michael Schauperl, Maren Podewitz, Julian E. Fuchs, Gabriele Cruciani, Klaus R. Liedl. "Electrostatic Recognition in Substrate Binding to Serine Proteases", *Journal of Molecular Recognition*, **31** (2018), e2727. DOI: 10.1002/jmr2727.
13. Jörn Bruns, Maren Podewitz, Klaus R. Liedl, Oliver Janka, Rainer Pöttgen, Hubert Huppertz. "Cu[B₂(SO₄)₄] and Cu[B(SO₄)₂(HSO₄)]₂—Two Silicate Analogue Borosulfates Differing in their Dimensionality: A Comparative Study of Stability and Acidity", *Angewandte Chemie International Edition*, **57** (2018), 9548-9552. DOI:10.1002/anie.201803395 and DOI:10.1002/ange.201803395.
14. Stefan Vanicek, Maren Podewitz, Jessica Stubbe, Dennis Schulze, Holger Kopacka, Klaus Wurst, Thomas Müller, Petra Lippmann, Simone Haslinger, Herwig Schottenberger, Klaus R. Liedl, Ingo Ott, Biprajit Sarkar, Benno Bildstein. "Highly Electrophilic, Catalytically Active and Redox-Responsive Cobaltoceniumyl and Ferrocenyl Triazolylidene Coinage Metal Complexes", *Chemistry – A European Journal*, **24** (2018), 3742-3753. DOI: 10.1002/chem.201705051.
15. Stefan Vanicek, Maren Podewitz, Christopher Hassenrück, Michael Pittracher, Holger Kopacka, Klaus Wurst, Thomas Müller, Klaus R. Liedl, Rainer F. Winter, Benno Bildstein. "Cobaltocenylidene: A Mesoionic Metallocene Carbene, Stabilized in a Gold (III) Complex", *Chemistry – A European Journal*, **24** (2018), 3165-3169. DOI: 10.1002/chem.201800147.
16. Chengjie Li, Klaus Wurst, Joachim Berghold, Maren Podewitz, Klaus R. Liedl, Bernhard Kräutler. "Pyro-Phyllobilins: Elusive Chlorophyll Catabolites Lacking a Critical Carboxylate Function of the Natural Chlorophylls", *Chemistry – A European Journal*, **24** (2018), 2987-2998. DOI: 10.1002/chem.201705331.
17. Jörn Bruns, Maren Podewitz, Michael Schauperl, Bastian Joachim, Klaus R. Liedl, Hubert Huppertz. "CaB₂S₄O₁₆: A Borosulfate Exhibiting a New Structure Type with Phyllosilicate Analogue Topology", *Chemistry – A European Journal*, **23** (2018), 16773-16781. DOI: 10.1002/chem.201704228.
18. Martin K. Schmitt, Maren Podewitz, Klaus R. Liedl, Hubert Huppertz. "High-Pressure Synthesis and Characterization of the Ammonium Yttrium Borate (NH₄)YB₈O₁₄", *Inorganic Chemistry*, **56** (2018), 14291-14299. DOI: 10.1021/acs.inorgchem.7b02402.
19. Michael Schauperl, Maren Podewitz, Teresa S. Ortner, Franz Waibl, Alexander Thoeny, Thomas Loerting, Klaus R. Liedl. "Balance Between Hydration Enthalpy and Entropy is Important for Ice Binding Surfaces in Antifreeze Proteins", *Scientific Reports*, **7** (2017), 11901. DOI:10.1038/s41598-017-11982-8.
20. Jörn Bruns, Maren Podewitz, Michael Schauperl, Klaus R. Liedl, Oliver Janka, Rainer Pöttgen, Hubert Huppertz. "Ag[B(SO₄)₂] – Synthesis, crystal structure, and characterization of the first precious metal borosulfate", *European Journal of Inorganic Chemistry*, **23** (2017), 16773-16781. DOI: 10.1002/ejic.20170036.
21. Michael Schauperl, Paul Czodrowski, Julian E. Fuchs, Roland G. Huber, Birgit J. Waldner, Maren Podewitz, Christian Kramer, Klaus R. Liedl. "A Binding Pose Flip Explained via Enthalpic and Entropic Contributions", *Journal of Chemical Information and Modeling*, **57** (2017), 345-354, DOI: 10.1021/acs.jcim.6b00483.
22. Chengjie Li, Klaus Wurst, Steffen Jokusch, Karl Gruber, Maren Podewitz, Klaus R. Liedl, Bernhard Kräutler. "Chlorophyll-Derived Yellow Phyllobilins of Higher Plants as Medium-Responsive Chiral Photoswitches", *Angewandte Chemie International Edition*, **55** (2016), 15760-15765. DOI: 10.1002/anie.201609481.

23. Michael Schauperl, Maren Podewitz, Birgit J. Waldner, Klaus R. Liedl. "Enthalpic and Entropic Contributions to Hydrophobicity", *Journal of Chemical Theory and Computation*, **12** (2016), 4600–4610, DOI: 10.1021/acs.jctc.6b00422.
24. Christian Kramer, Maren Podewitz, Peter Ertl, Klaus R. Liedl. "Unique Macrocycles in the Taiwan Traditional Chinese Medicine Database", *Planta Medica*, **81** (2015), 459-466. DOI:10.1055/s-0035-1545881.
25. Maren Podewitz, Martin T. Stiebritz, Markus Reiher. "An Enquiry into Theoretical Bioinorganic Chemistry: How Heuristic is the Character of Present-Day Quantum Chemical Methods?", *Faraday Discussions*, **148** (2011), 119–135. DOI: 10.1039/C004195E.
26. Maren Podewitz, Markus Reiher. "Spin Interactions in Cluster Chemistry", *Advances in Inorganic Chemistry*, **62** (2010), 177–230. DOI:10.1016/S0898-8838(10)62005-3.
27. Maren Podewitz, Jacco D. van Beek, Michael Wörle, Tobias Ott, Daniel Stein, Heinz Rügger, Beat H. Meier, Markus Reiher, Hansjörg Grützmacher. "Ion Dynamics in Confined Spaces: Sodium Ion Mobility in Icosahedral Container Molecules", *Angewandte Chemie International Edition*, **49** (2010), 7465–7469. DOI: 10.1002/ange.201003441.
28. Astrid Malassa, Christina Agthe, Helmar Görls, Maren Podewitz, Lian Yu, Carmen Herrmann, Markus Reiher, Matthias Westerhausen. "Synthesis, Structures and Magnetic Properties of N-Trialkylsilyl-8-amidoquinoline Complexes of Chromium, Manganese, Iron, and Cobalt as well as of Wheel-like Hexa-nuclear Iron(II) and Manganese(II) Bis(8-Amidoquinoline)", *European Journal of Inorganic Chemistry*, **12** (2010), 1777–1790.
29. Carmen Herrmann, Maren Podewitz, Markus Reiher. "Restrained Optimization of Broken-Symmetry Determinants", *International Journal of Quantum Chemistry*, **109** (2009), 2430–2446.
30. Maren Podewitz, Carmen Herrmann, Astrid Malassa, Matthias Westerhausen, Markus Reiher. "Spin-Spin Interactions in Polynuclear Transition-Metal Complexes", *Chemical Physics Letters*, **451** (2008), 301–308. DOI:10.1016/j.cplett.2007.12.011.

Book Chapters

1. Maren Podewitz, Thomas Weymuth, Markus Reiher. "Density Functional Theory for Transition Metal Chemistry: The Case of a Water Splitting Ruthenium Cluster", *Modeling Molecular Properties*, Ed. P. Comba (2011), 139–163.

Conference Proceedings

1. Maren Podewitz, Bernhard Kräutler, Klaus R. Liedl. "Understanding and Improving B-12 Antivitamins By Computational Studies", 8th International Conference on Biological Inorganic Chemistry (ICBIC) Location: Florianopolis, BRAZIL Date: JUL 31-AUG 04, 2017, *Journal of Biological Inorganic Chemistry*, **22**(1), S48.

Journal Covers

1. Cover Feature: Toward Elimination of Discrepancies Between Theory and Experiment: Anharmonic Rotational-Vibrational Spectrum of Water in Solid Noble Gas Matrices. Dennis F. Dinu, Maren Podewitz, Hinrich Grothe, Klaus R. Liedl, Thomas Loerting. (*J. Chem. Phys. A* 123/2019). https://pubs.acs.org/pb-assets/images/_journalCovers/jpcafhh/jpcafhh_v123i038-2.jpg?0.6043850775677858.
2. Inside Cover: Cu[B₂(SO₄)₄] and Cu[B(SO₄)₂(HSO₄)]—Two Silicate Analogue Borosulfates Differing in their Dimensionality: A Comparative Study of Stability and Acidity (*Angew. Chem. Int. Ed.*

- 30/2018), Jörn Bruns, Maren Podewitz, Klaus R. Liedl, Oliver Janka, Rainer Pöttgen, Hubert Huppertz. DOI: 10.1002/anie.201805347.
- Cover Feature: Highly Electrophilic, Catalytically Active and Redox-Responsive Cobaltoceniumyl and Ferrocenyl Triazolylidene Coinage Metal Complexes (Chem. Eur. J. 15/2018). Stefan Vanicek, Maren Podewitz, Jessica Stubbe, Dennis Schulze, Holger Kopacka, Klaus Wurst, Thomas Müller, Petra Lippmann, Simone Haslinger, Herwig Schottenberger, Klaus R. Liedl, Ingo Ott, Biprajit Sarkar, Benno Bildstein. DOI: 10.1002/chem.201800112.
 - Frontispiece: $\text{CaB}_2\text{S}_4\text{O}_{16}$: A Borosulfate Exhibiting a New Structure Type with Phyllosilicate Analogue Topology. Jörn Bruns, Maren Podewitz, Michael Schauperl, Bastian Joachim, Klaus R. Liedl, Hubert Huppertz. DOI: 10.1002/chem.201786664.
 - Front Cover: $\text{Ag}[\text{B}(\text{SO}_4)_2]$ -Synthesis, Crystal Structure, and Characterization of the First Precious-Metal Borosulfate (Eur. J. Inorg. Chem. 34/2017). Jörn Bruns, Maren Podewitz, Michael Schauperl, Klaus R. Liedl, Oliver Janka, Rainer Pöttgen, Hubert Huppertz. DOI: 10.1002/ejic.201700916.
 - Front Cover: A Binding Pose Flip Explained via Enthalpic and Entropic Contributions. (J. Chem. Inf. Model. 57(2), 2017). Michael Schauperl, Paul Czodrowski, Julian E. Fuchs, Roland G. Huber, Birgit J. Waldner, Maren Podewitz, Christian Kramer, Klaus R. Liedl. <https://pubs.acs.org/toc/jcis8/57/2>.
 - Inside Cover: Chlorophyll-Derived Yellow Phyllobilins of Higher Plants as Medium-Responsive Chiral Photoswitches (Angew. Chem. Int. Ed. 51/2016). Chengjie Li, Klaus Wurst, Steffen Jokusch, Karl Gruber, Maren Podewitz, Klaus R. Liedl, Bernhard Kräutler. DOI: 10.1002/anie.201611033.

Talks

Upcoming

1. "Unravelling Reaction Mechanisms and Reactivity by Quantum Chemistry", 8th Carnival Conference Session 2020, February 18 to 20, 2020, Cologne, Germany (**invited**).

Past

2. "Understanding Complex Molecular Systems by Multiscale Modelling" Hearing for an assistant professorship position, Radboud University Nijmegen, January 7, 2020, Nijmegen, The Netherlands (**invited**).
3. "Towards Predictive Catalysis by Multiscale Modelling", Hearing for an assistant professorship position, Universiteit van Amsterdam, December 17, 2019, Amsterdam, The Netherlands (**invited**).
4. "Arzneimittelforschung mit Hilfe der Computerchemie" Hearing for an assistant professorship position, Institute of Pharmaceutical Chemistry, University of Innsbruck, November 8, 2019, Innsbruck, Austria (**invited**).
5. "Multiscale Modelling in Computational Catalysis", Hearing for an assistant professorship position, Institute of Ionphysics and Applied Physics, University of Innsbruck, September 16, 2019, Innsbruck, Austria (**invited**).
6. "The Mechanism of Olefin Metathesis with a Molybdenum Imido Alkylidene *N*-Heterocyclic Carbene Catalyst Investigated by Quantum Chemistry", 7th Latin American Symposium on Coordination and Organometallic Chemistry, August 27 to August 30, 2019, Cartagena, Colombia.
7. "Elucidating the Mechanism of Olefin Metathesis with a Molybdenum Imido Alkylidene *N*-Heterocyclic Carbene Catalyst by Quantum Chemistry", International Symposium on Olefin Metathesis and Related Chemistry, June 30 to July 3, 2019, Barcelona, Spain.
8. "Elucidating the Olefin Metathesis Mechanism of A Novel Cationic Molybdenum Catalyst by Quantum Chemistry", March 21, 2019, Federal University of Minas Gerais, Belo Horizonte, Brazil (**invited**).
9. "Associative or Dissociative? Elucidating the Mechanism of Olefin Metathesis with A Novel Cationic Molybdenum Catalyst by Quantum Chemistry", March 20, 2019, Federal University of Rio de Janeiro, Brazil (**invited**).
10. "Reaction Mechanism of Olefin Metathesis with a Novel Molybdenum Catalyst", Girona Seminar: Predictive Catalysis, Transition-Metal Reactivity by Design, April 3-6, 2018, Girona, Spain.
11. "Unravelling Reaction Mechanisms with Quantum Chemistry", DK-CIM Winter School, March 4-7, 2018, Obergurgl, Austria (**invited**).
12. "A Novel Mo-Alkylidene Catalyst Facilitates Olefin Metathesis in the Presence of Functional Groups", Polymat 2017, October 15-19, 2017, Huatulco, Mexico (**invited**).
13. "A Novel Mo-Alkylidene Catalyst Facilitates Olefin Metathesis in the Presence of Functional Groups", October 13, 2017, National Autonomous University Mexico, Mexico City, Mexico (**invited**).
14. "Novel Mo-Alkylidene Catalysts Can Tolerate Functional Groups in Olefin Metathesis" Gordon Research Seminar: Computational Chemistry, July 2-3, 2016, Girona, Spain.
15. "Solvation and/or Dispersion: The Quest for Accurate Bond Dissociation Energies in B₁₂ Antivitamins", Boeringer Ingelheim, November 30, 2015, Biberach, Germany.

16. "On or Off: How Conformations Influence Bond Dissociation Energies in B₁₂ Antivitamins", 16th Austrian Chemistry Days, September 21-24, 2015, Innsbruck, Austria.
17. "Spin-Spin Interactions in Biologically Relevant Model Clusters" C4 Workshop IBM, January 19, 2011, Rorschlikon, Switzerland.
18. "Understanding Structure and Reactivity of Transition-Metal Clusters", Seminar in Theoretical Chemistry, February 23, 2010, Jerusalem, Israel.
19. "Local Spin and Bond Order Terms", Seminar Special Topics in Theoretical Chemistry, January 21, 2009, Zürich, Switzerland.

Posters

1. 55th Symposium for Theoretical Chemistry, 09.2019, Rostock, Germany.
2. 10th Triennial Congress of the International Society for Theoretical Chemical Physics, 07.2019, Tromso, Norway.
3. Gordon Research Seminar: Computational Chemistry, 07.2018, Mount Snow, VT, USA.
4. Gordon Research Conference: Computational Chemistry, 07.2018, Mount Snow, VT, USA.
5. 16th International Congress on Quantum Chemistry, 06.2018, Menton, France.
6. Computational Catalysis for Sustainable Chemistry, 06.2018, Tarragona, Spain.
7. 11th Triennial Congress of the World Association of Theoretical and Computational Chemists (WATOC), 09.2017, Munich, Germany.
8. 18th International Conference on Bioinorganic Chemistry, 07.2017, Florianopolis, Brazil.
9. FemEx Netherlands 2017, 06.2017, Putten, Netherlands.
10. Theory and Applications of Computational Chemistry, 09.2016, Seattle, USA.
11. Gordon Research Conference: Computational Chemistry, 07.2016, Girona, Spain.
12. Girona Seminar: Predictive Catalysis, 04.2016, Girona, Spain.
13. 6th Annual CMBI Meeting, 03.2016, Gnadewald, Austria.
14. 7th Life Science Meeting, 02.2015, Innsbruck, Austria.
15. 14th International Congress on Quantum Chemistry, Satellite Meeting, 06.2012, Los Angeles, USA.
16. Faraday Discussion 148, 07.2010, Nottingham, England.
17. 14th International Conference on Bioinorganic Chemistry, 07.2009, Nagoya, Japan.
18. C4 Workshop Novartis Institutes for Biomedical Research, 01.2009, Basel, Switzerland.
19. 44th Symposium for Theoretical Chemistry STC 2008, 09.2008, Ramsau, Austria.
20. 10th Sostrup Summer School of Quantum Chemistry and Molecular Properties, 07.2008, Sostrup, Denmark.
21. Association of Young Chemists (JungChemikerForum) Frühjahrssymposium 2008, 03.2008, Rostock, Germany.