

Dr. Jan Dreiser

Full Publication List

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Bibliographic Figures

Times cited: 2757; h-index: 26; average citations per item: 44.47 (ISI web of knowledge).

Refereed journal articles and book chapters

61 – Magnetic Properties of Single Rare Earth Atoms on Graphene/Ir(111)

R. Baltic, F. Donati, A. Singha, C. Wäckerlin, J. Dreiser, B. Delley, M. Pivetta, S. Rusponi, H. Brune, *Phys. Rev. B* **98**, 024412 (2018).

60 – Magnetic Hysteresis in Self-Assembled Monolayers of Dy-Fullerene Single Molecule Magnets on Gold

C.-H. Chen, D. S. Krylov, S. M. Avdoshenko, F. Liu, L. Spree, R. Westerstrom, C. Bulbucan, M. Studniarek, J. Dreiser, A. Wolter, B. Büchner, A. A. Popov, *Nanoscale* **10**, 11287 (2018).

59 – Excited Spin-State Trapping in Spin Crossover Complexes on Ferroelectric Substrates

C. Wäckerlin, F. Donati, A. Singha, R. Baltic, S. Decurtins, S.-X. Liu, S. Rusponi, J. Dreiser, *J. Phys. Chem. C* **122**, 8202 (2018).

58 – Study of Magneto-Electric Coupling Between Ultra-Thin Fe Films and PMN-PT Using X-ray Magnetic Circular Dichroism

S.R.V. Avula, J. Heidler, J. Dreiser, J. Vijayakumar, L. Howald, F. Nolting, C. Piamonteze, *J. Appl. Phys.* **123**, 064103 (2018).

57 – Engineering On-Surface Spin Crossover: Spin-State Switching in a Self-Assembled Film of Vacuum Sublimable Functional Molecule

K.S. Kumar, M. Studniarek, B. Heinrich, J. Arabski, G. Schmerber, M. Bowen, S. Boukari, E. Beaurepaire, J. Dreiser, M. Ruben, *Advanced Materials*, **30**, 1705416 (2018)

56 – 4f Occupancy and Magnetism of Rare-Earth Atoms Adsorbed on Metal Substrates

A. Singha, R. Baltic, F. Donati, C. Wäckerlin, J. Dreiser, L. Persichetti, S. Stepanow, P. Gambardella, S. Rusponi, H. Brune, *Phys. Rev. B* **96**, 224418 (2017).

55 – Interplay of Fe and Tm Moments Through the Spin-Reorientation Transition in TmFeO₃

U. Staub, L. Rettig, E. M. Bothschafter, Y. W. Windsor, M. Ramakrishnan, S.R.V. Avula, J. Dreiser, C. Piamonteze, V. Scagnoli, S. Mukherjee, C. Niedermayer, M. Medarde, E. Pomjakushina, *Phys. Rev. B* **96**, 174408 (2017).

54 – Nanoscale X-Ray Investigation of Magnetic Metallofullerene Peapods

F. Fritz, R. Westerström, A. Kostanyan, C. Schlesier, J. Dreiser, B. Watts, L. Houben, M. Luysberg, S. M. Avdoshenko, A.A. Popov, C.M. Schneider, C. Meyer, *Nanotechnology* **28**, 435703 (2017).

- 53 – Sum Rule Distortions in Fluorescence-Yield X-Ray Magnetic Circular Dichroism**
B. Liu, C. Piamonteze, M. U. Delgado-Jaime, R.-P. Wang, J. Heidler, J. Dreiser, R. Chopdekar, F. Nolting, F. M. F. de Groot, *Phys. Rev. B* **96**, 054446 (2017).
- 52 – Long-Range Ferrimagnetic Order in a Two-Dimensional Supramolecular Kondo Lattice**
J. Girovsky, J. Nowakowski, M. E. Ali, M. Baljozovic, H. R. Rossmann, T. Nijs, E. A. Aeby, S. Nowakowska, D. Siewert, G. Srivastava, C. Wäckerlin, J. Dreiser, S. Decurtins, S.-X. Liu, P. M. Oppeneer, T. A. Jung, N. Ballav, *Nature Commun.* **8**, 15388 (2017).
- 51 – Magnetic Memory from Site Isolated Dy(III) on Silica Materials**
F. Allouche, G. Lapadula, G. Siddiqi, W. W. Lukens, O. Maury, B. Le Guennic, F. Pointillart, J. Dreiser, V. Mougél, O. Cador, C. Copéret, *ACS Cent. Sci.* **3**, 244 (2017).
- 50 – Superlattice of Single Atom Magnets on Graphene**
R. Baltic, M. Pivetta, F. Donati, C. Wäckerlin, A. Singha, J. Dreiser, S. Rusponi, H. Brune, *Nano Lett.* **16**, 7610 (2016).
- 49 – Magnetoelastic Control of Magnetism in an Artificial Multiferroic**
J. Heidler, M. Fechner, R. V. Chopdekar, C. Piamonteze, J. Dreiser, C. A. Jenkins, E. Arenholz, S. Rusponi, H. Brune, N. A. Spaldin, F. Nolting, *Phys. Rev. B* **94**, 14401 (2016).
- 48 – Magnetic Hysteresis in Er trimers on Cu(111)**
A. Singha, F. Donati, C. Wäckerlin, R. Baltic, J. Dreiser, M. Pivetta, S. Rusponi, H. Brune, *Nano Lett.* **16**, 3475-3481 (2016).
- 47 – Giant Hysteresis of Single-Molecule Magnets Adsorbed on a Nonmagnetic Insulator**
C. Wäckerlin, F. Donati, A. Singha, R. Baltic, S. Rusponi, K. Diller, F. Patthey, M. Pivetta, Y. Lan, S. Klyatskaya, M. Ruben, H. Brune, J. Dreiser, *Adv. Mat.* **28**, 5195-5199 (2016).
- 46 – Magnetic Remanence in Single Atoms**
F. Donati, S. Rusponi, S. Stepanow, C. Wäckerlin, A. Singha, L. Persichetti, R. Baltic, K. Diller, F. Patthey, E. Fernandes, J. Dreiser, Z. Sljivancanin, K. Kummer, C. Nistor, P. Gambardella, H. Brune, *Science* **352**, 318-321 (2016).
- 45 – Out-of-Plane Alignment of Er(trensal) Easy Magnetization Axes Using Graphene**
J. Dreiser, G.E. Pacchioni, F. Donati, L. Gragnaniello, A. Cavallin, K.S. Pedersen, J. Bendix, B. Delley, M. Pivetta, S. Rusponi, H. Brune, *ACS Nano* **10**, 2887-2892 (2016).
- 44 – Origin of Perpendicular Magnetic Anisotropy and Large Orbital Moment in Fe Atoms on MgO**
S. Baumann, F. Donati, S. Stepanow, S. Rusponi, W. Paul, S. Gangopadhyay, I.G. Rau, G.E. Pacchioni, L. Gragnaniello, M. Pivetta, J. Dreiser, C. Piamonteze, C.P. Lutz, R.M. Macfarlane, B.A. Jones, P. Gambardella, A.J. Heinrich, H. Brune, *Phys. Rev. Lett.* **115**, 237202 (2015).
- 43 – Cyanide Single-Molecule Magnets Exhibiting Solvent Dependent Reversible “On” and “Off” Exchange Bias Behavior •**
D. Pinkowicz, H.I. Southerland, C. Avendano, A. Prosvirin, C. Sanders, W. Wernsdorfer, K.S. Pedersen, J. Dreiser, R. Clerac, J. Nehr Korn, G.G. Simeoni, A. Schnegg, K. Holldack, K.R. Dunbar, *J. Am. Chem. Soc.* **137**, 14406-14422 (2015).
- 42 – Design of Single-Molecule Magnets: Insufficiency of the Anisotropy Barrier as the Sole Criterion**
K. S. Pedersen, J. Dreiser, H. Weihe, R. Sibille, H. V. Johannesen, M. A. Sørensen, B. E. Nielsen, M. Sigrist, H. Mutka, S. Rols, J. Bendix, S. Piligkos, *Inorg. Chem.* **54**, 7600–7606 (2015).

41 – Strong Antiferromagnetic Exchange Between Manganese Phthalocyanine and Ferromagnetic Europium Oxide

C. Wäckerlin, F. Donati, A. Singha, R. Baltic, A.-C. Uldry, B. Delley, S. Rusponi, J. Dreiser, *Chem. Commun.* **51**, 12958–12961 (2015).

40 – Interfacial Properties of LaMnO₃/LaNiO₃ Superlattices Grown Along (001) and (111) Orientation

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39 – Molecular Lanthanide Single-Ion Magnets: From Bulk to Submonolayers

J. Dreiser, *J. Phys.: Condens. Matter* **27**, 183203 (2015).

38 – Surface Aligned Magnetic Moments and Hysteresis of an Endohedral Single-Molecule Magnet on a Metal

R. Westerström, A.-C. Uldry, R. Stania, J. Dreiser, C. Piamonteze, M. Muntwiler, F. Matsui, S. Rusponi, H. Brune, S. Yang, A. Popov, B. Büchner, B. Delley, T. Greber, *Phys. Rev. Lett.* **114**, 087201 (2015).

37 – Reduction of Mn₁₉ Coordination Clusters on a Gold Surface

J. Dreiser, A. M. Ako, C. Wäckerlin, J. Heidler, C. E. Anson, A. K. Powell, C. Piamonteze, F. Nolting, S. Rusponi, H. Brune, *J. Phys. Chem. C* **119**, 3550 (2015).

36 – Magnetism of Ho and Er Atoms on Close-Packed Metal Surfaces

F. Donati, A. Singha, S. Stepanow, C. Wäckerlin, J. Dreiser, P. Gambardella, S. Rusponi, and H. Brune, *Phys. Rev. Lett.* **113**, 237201 (2014).

35 – Tailoring the Magnetism of Co Atoms on Graphene Through Substrate Hybridization

F. Donati, L. Gagnaniello, A. Cavallin, F. D. Natterer, Q. Dubout, M. Pivetta, F. Patthey, J. Dreiser, C. Piamonteze, S. Rusponi, H. Brune, *Phys. Rev. Lett.* **113**, 177201 (2014).

34 – The Metallofullerene Field-Induced Single-Ion Magnet HoSc₂N@C₈₀

J. Dreiser, R. Westerström, Y. Zhang, A. A. Popov, L. Dunsch, K. Krämer, S.-X. Liu, S. Decurtins, T. Greber, *Chem. Eur. J.* **20**, 13536 (2014).

33 – X-ray Induced Demagnetization of Single-Molecule Magnets

J. Dreiser, R. Westerström, C. Piamonteze, F. Nolting, S. Rusponi, H. Brune, S. Yang, A. Popov, L. Dunsch, T. Greber, *Appl. Phys. Lett.* **105**, 032411 (2014).

32 – Cluster-Size Dependent Internal Dynamics and Magnetic Anisotropy of Ho Ions in HoM₂N@C₈₀ and Ho₂MN@C₈₀ Families (M = Sc, Lu, Y)

Y. Zhang, D. Krylov, S. Schiemenz, M. Rosenkranz, R. Westerström, J. Dreiser, C. Piamonteze, T. Greber, A. A. Popov, *Nanoscale* **6**, 11431 (2014).

31 – Interlayer Exchange Coupling in Ordered Fe Nanocluster Arrays Grown on Al₂O₃/Ni₃Al(111)

S. Vlačić, L. Gagnaniello, S. Rusponi, A. Cavallin, F. Donati, Q. Dubout, C. Piamonteze, J. Dreiser, F. Nolting, H. Brune, *Phys. Rev. B* **89**, 245402 (2014).

30 – Reaching the Magnetic Anisotropy Limit of a 3d Metal Atom

I. G. Rau, S. Baumann, S. Rusponi, F. Donati, S. Stepanow, L. Gagnaniello, J. Dreiser, C. Piamonteze, F. Nolting, S. Gangopadhyay, O. R. Albertini, R. M. Macfarlane, C. P. Lutz, B. A. Jones, P. Gambardella, A. J. Heinrich, H. Brune, *Science* **344**, 988 (2014).

- 29 – Exchange Interaction of Strongly Anisotropic Tripodal Erbium Single-Ion Magnets with Metallic Surfaces**
J. Dreiser, C. Wäckerlin, Md. E. Ali, C. Piamonteze, F. Donati, A. Singha, K. S. Pedersen, S. Rusponi, J. Bendix, P. M. Oppeneer, T. A. Jung, H. Brune, *ACS Nano* **8**, 4662 (2014).
- 28 – Tunneling, Remanence, and Frustration in Dysprosium-Based Endohedral Single-Molecule Magnets**
R. Westerström, J. Dreiser, C. Piamonteze, M. Muntwiler, S. Weyeneth, K. Krämer, S.-X. Liu, S. Decurtins, A. Popov, S. Yang, L. Dunsch, T. Greber, *Phys. Rev. B* **89**, 060406(R) (2014).
- 27 – Modifying the Properties of 4f Single-Ion Magnets by Peripheral Ligand Functionalisation**
K. S. Pedersen, L. Ungur, M. Sigrist, A. Sundt, M. Schau-Magnussen, V. Vieru, H. Mutka, S. Rols, H. Weihe, O. Waldmann, L. F. Chibotaru, J. Bendix, J. Dreiser, *Chem. Sci.* **5**, 1650 (2014), open access.
- 26 – Low Temperature Ferromagnetism in Chemically Ordered FeRh Nanocrystals**
A. Hillion, A. Cavallin, S. Vlaic, A. Tamion, F. Tournus, G. Khadra, J. Dreiser, C. Piamonteze, F. Nolting, S. Rusponi, K. Sato, T. J. Konno, O. Proux, V. Dupuis, H. Brune, *Phys. Rev. Lett.* **110**, 087207 (2013).
- 25 – Three-Axis Anisotropic Exchange Coupling in the Single-Molecule Magnets (NEt₄)[Mn^{III}₂(5-Brsalen)₂(MeOH)₂M^{III}(CN)₆], M = Ru, Os**
J. Dreiser, K. S. Pedersen, A. Schnegg, K. Holldack, J. Nehr Korn, M. Sigrist, P. Tregenna-Piggott, H. Mutka, H. Weihe, V. S. Mironov, J. Bendix, O. Waldmann, *Chem. Eur. J.* **19**, 3693 (2013).
- 24 – XMCD Study of the Magnetic Exchange Coupling in a Fluoride-Bridged DyCr Molecular Cluster**
J. Dreiser, C. Piamonteze, F. Nolting, K. S. Pedersen, J. Bendix, S. Rusponi, H. Brune, *J. Korean Phys. Soc. (Conf. Proc. of ICM 2012)*, **62**, 1368 (2013).
- 23 – An Oxide-Bridged Dy-Re(V)-Dy Single-Molecule Magnet**
K. S. Pedersen, J. Dreiser, M. Schau-Magnussen, C. A. Thuesen, H. Weihe, J. Bendix, *Polyhedron* **46**, 47 (2012).
- 22 – Mn^{III} Zero-Field Splitting Parameters and Weak Exchange Interactions in a Cyanide-Bridged {Mn^{III}-Ir^{III}-Mn^{III}} Cluster**
K. S. Pedersen, M. Sigrist, H. Weihe, P. Tregenna-Piggott, M. Schau-Magnussen, J. Dreiser, H. Mutka, A. L. Barra, J. Bendix, *Inorg. Chem. Commun.* **24**, 24 (2012).
- 21 – XMCD Study of a Methoxide-Bridged Dy^{III}-Cr^{III} Cluster Obtained by Fluoride Abstraction from cis-[Cr^{III}F₂(phen)₂]⁺**
J. Dreiser, K. S. Pedersen, T. Birk, M. Schau-Magnussen, C. Piamonteze, S. Rusponi, Th. Weyhermüller, H. Brune, F. Nolting, J. Bendix, *J. Phys. Chem. A* **116**, 7842 (2012).
- 20 – X-Treme Beamline at SLS: X-ray Magnetic Circular and Linear Dichroism at High Field and Low Temperature**
C. Piamonteze, U. Flechsig, S. Rusponi, J. Dreiser, J. Heidler, M. Schmidt, R. Wetter, M. Calvi, T. Schmidt, H. Pruchova, J. Krempasky, C. Quitmann, H. Brune, F. Nolting, *J. Synchrotron Rad.* **19**, 661 (2012).
- 19 – An Endohedral Single-Molecule Magnet with Long Relaxation Times: DySc₂N@C₈₀**
R. Westerström, J. Dreiser, C. Piamonteze, M. Muntwiler, S. Weyeneth, H. Brune, S. Rusponi, F. Nolting, A. Popov, S. Yang, L. Dunsch, T. Greber, *J. Am. Chem. Soc.* **134**, 9840 (2012).
- 18 – Direct Observation of a Ferri-to-Ferromagnetic Transition in a Fluoride-Bridged 3d-4f Molecular Cluster**

J. Dreiser, K. S. Pedersen, C. Piamonteze, S. Rusponi, Z. Salman, Md. E. Ali, M. Schau-Magnussen, C. Aa. Thuesen, S. Piligkos, H. Weihe, H. Mutka, O. Waldmann, P. Oppeneer, J. Bendix, F. Nolting, H. Brune, *Chem. Sci.* **3**, 1024 (2012).

17 – Inelastic Neutron Scattering on an Mn₁₀ Supertetrahedron: Assessment of Exchange Coupling Constants, Ferromagnetic Spin Waves and an Analogy to the Hückel Method

S. Stuibler, G. Wu, J. Nehr Korn, J. Dreiser, Y. Lan, G. Novitchi, C. E. Anson, T. Unruh, A. K. Powell, O. Waldmann, *Chem. Eur. J.* **17**, 9094 (2011).

16 – A Linear Single-Molecule Magnet Based on [Ru^{III}(CN)₆]³⁻

K. S. Pedersen, J. Dreiser, J. Nehr Korn, M. Gysler, M. Schau-Magnussen, A. Schnegg, K. Holldack, R. Bittl, S. Piligkos, H. Weihe, P. Tregenna-Piggott, O. Waldmann, J. Bendix, *Chem. Commun.* **47**, 6918 (2011).

15 – Frequency-Domain Fourier-Transform Terahertz Spectroscopy of the Single-Molecule Magnet (NEt₄)[Mn₂(5-Brsalen)₂(MeOH)₂Cr(CN)₆]

J. Dreiser, A. Schnegg, K. Holldack, K. S. Pedersen, M. Schau-Magnussen, J. Nehr Korn, P. Tregenna-Piggott, H. Mutka, H. Weihe, J. Bendix, O. Waldmann, *Chem. Eur. J.* **17**, 7492 (2011).

14 – High-Frequency Electron-Spin-Resonance Study of the Octanuclear Ferric Wheel CsFe₈

J. Dreiser, O. Waldmann, G. Carver, C. Dobe, H. U. Güdel, A. L. Barra, *Inorg. Chem.* **49**, 8729 (2010).

13 – Combined Magnetic Susceptibility Measurements and ⁵⁷Fe Mössbauer Spectroscopy on a Ferromagnetic {Fe^{III}₄Dy₄} Ring,

D. Schray, G. Abbas, Y. Lan, V. Mereacre, A. Sundt, J. Dreiser, O. Waldmann, G. E. Kostakis, C. E. Anson, A. K. Powell, *Angew. Ch. Int. Ed.* **49**, 5185 (2010).

12 – Quantized Antiferromagnetic Spin Waves in the Molecular Heisenberg Ring CsFe₈

J. Dreiser, O. Waldmann, C. Dobe, G. Carver, S. T. Ochsenbein, A. Sieber, H. U. Güdel, J. van Duijn, J. Taylor, A. Podlesnyak, *Phys. Rev. B* **81**, 024408 (2010).

11 – Confluence of Resonant Laser Excitation and Bidirectional Quantum-Dot Nuclear-Spin Polarization

C. Latta, A. Högele, Y. Zhao, A. N. Vamivakas, P. Maletinsky, M. Kroner, J. Dreiser, I. Carusotto, A. Badolato, D. Schuh, W. Wegscheider, M. Atatüre, A. Imamoglu, *Nat. Phys.* **5**, 758 (2009).

10 – Optical Investigations of Quantum Dot Spin Dynamics

J. Dreiser, M. Atatüre, C. Galland, T. Müller, A. Badolato, A. Imamoglu, *Phys. Rev. B* **77**, 075317 (2008).

9 – Optical Control of Quantum Dot-Spin States (Book Chapter)

M. Atatüre, J. Dreiser, A. Badolato, A. Imamoglu, Semiconductor Quantum Bits, Edited by O. Benson and F. Henneberger, World Scientific Publishing Co. (2008).

8 – Strong Extinction of a Far-Field Laser Beam by a Single Quantum Dot

A. N. Vamivakas, M. Atatüre, J. Dreiser, S. T. Yilmaz, A. Badolato, A. K. Swan, B. B. Goldberg, A. Imamoglu, S. Ünlü, *Nano Lett.* **7**, 2892 (2007).

7 – Coupling Quantum Dot Spins to a Photonic Crystal Nanocavity

A. Imamoglu, S. Fält, J. Dreiser, G. Fernandez, M. Atatüre, K. Hennessy, A. Badolato, D. Gerace, *J. Appl. Phys.* **101**, 081602 (2007).

6 – Observation of Faraday Rotation from a Single Confined Spin

M. Atatüre, J. Dreiser (Equal contribution with M. Atatüre), A. Badolato, A. Imamoglu, *Nat. Phys.* **3**, 101 (2007).

5 – Quantum-Dot Spin-State Preparation with Near-Unity Fidelity

M. Atatüre, J. Dreiser, A. Badolato, A. Högele, K. Karrai, A. Imamoglu, *Science* **312**, 551 (2006).

4 – Tuning Photonic Crystal Nanocavity Modes by Wet Chemical Digital Etching

K. Hennessy, A. Badolato, A. Tamboli, P. M. Petroff, E. Hu, M. Atatüre, J. Dreiser, A. Imamoglu, *Appl. Phys. Lett.* **87**, 021108 (2005).

3 – Deterministic Coupling of Single Quantum Dots to Single Nanocavity Modes

A. Badolato, K. Hennessy, M. Atatüre, J. Dreiser, E. Hu, P. M. Petroff, A. Imamoglu, *Science* **308**, 1158 (2005).

2 – Spin-Selective Optical Absorption of Singly Charged Excitons in a Quantum Dot

A. Högele, M. Kroner, S. Seidl, K. Karrai, M. Atatüre, J. Dreiser, A. Imamoglu, R. J. Warburton, A. Badolato, B. D. Gerardot, P. M. Petroff, *Appl. Phys. Lett.* **86**, 221905 (2005).

1 – Voltage-Controlled Electron-Hole Interaction in a Single Quantum Dot

A. Högele, S. Seidl, M. Kroner, K. Karrai, J. Warburton, M. Atatüre, J. Dreiser, A. Imamoglu, B. D. Gerardot, P. M. Petroff, *J. Supercond. Novel Magn.* **18**, 245 (2005).

Invited talks

- *Shedding light on functional molecular magnetic interfaces*
Satellite workshop of the International Conference on Molecule-based Magnets, Brazilian Synchrotron Light Laboratory, August 30-31, 2018, Campinas, São Paulo, Brazil.
- *Reaching Magnetic Stability of Single-Molecule Magnets by Ultrathin Insulating Films*
Seminar Condensed Matter Physics, Basel University, October 23, 2017, Basel, Switzerland.
- *Tuning the Properties of Lanthanide Single-Molecule Magnets at Interfaces*
Sino-Swiss Technology Cooperation Workshop on Endohedral Fullerenes, June 24-27, 2017, Villa Garbald, Castasegna, Switzerland.
- *Tuning the Properties of Single-Ion Molecular Magnets at Interfaces*
Seminar Surface Chemistry Group Chr. Coperet, ETH Höggerberg, March 27, 2017, Zürich, Switzerland.
- *Tailoring the Properties of Molecular Single-Ion Magnets on Surfaces,*
Seminar Max-Planck-Institut für Festkörperforschung, November 2, 2016, Stuttgart, Germany.
- *Studying molecular magnets on surfaces using x-rays and scanning tunneling microscopy,*
Discussion meeting Profs Waldmann/Powell/Schnack with students, October 12-14, 2016, Oberkirch, Germany
- *Molecular Single-Ion Magnets: Harnessing Molecule-Surface Interactions,* International School and Symposium on Synchrotron Radiation in Natural Science (ISSRNS), June 13-18, 2016, Ustron, Poland
- *Engineering Magnetic Molecule-Inorganic Heterointerfaces,* Bordeaux Olivier Kahn discussions (BOOK-D), May 26-27, 2016, Bordeaux, France
- *XMCD on molecular magnets,* CoNEXT workshop, Niels Bohr Institute, September 28, 2015, Copenhagen, Denmark
- *Using X-rays - Instrumentation for Spectroscopy,* PSI summer school on condensed matter research, Lyceum Alpinum, August 15-21, 2015, Zuoz, Switzerland
- *Single-Ion Magnets: Getting Control of the Molecule-Metal Interface,* Swiss-Sino Workshop, FHNW Campus Brugg/Windisch, May 4-5, 2015, Windisch, Switzerland
- *X-ray Absorption Spectroscopy & X-ray Magnetic Circular Dichroism – An Introduction,* Symposium on X-ray spectroscopy, Copenhagen Univ., June 17-19, 2014, Copenhagen, Denmark

- *Bulk and submonolayer studies of novel single-ion molecular magnets*, Focus Session: New trends in Molecular Magnetism, Annual meeting of the German Physical Society, March 30-April 04, 2014, Dresden, Germany
- *Three-Axis Anisotropic Exchange Coupling in the Single-Molecule Magnets $NEt_4 [Mn^{III}_2 (5-Brsalen)_2 (MeOH)_2 M^{III}(CN)_6]$ ($M=Ru, Os$)*, European Conference on Molecular Magnetism, October 6-10, 2013, Karlsruhe, Germany
- *Single-molecule magnets studied by synchrotron-based Terahertz and X-ray techniques*, BESSY user meeting, December 13, 2012, BESSY, Berlin, Germany
- *Studying magnetism at the nanoscale — using molecular magnets*, Atomic, Mesoscopic and Optical Physics Seminar, May 28, 2012, Cavendish Lab, University of Cambridge, United Kingdom
- *Magnetism at the nanoscale: From single spins to coupled clusters*, Seminar, group Prof. Wulfhekel, May 2, 2012, Karlsruhe Institute of Technology, Karlsruhe, Germany
- *Magnetic exchange coupling in 3d-4f molecular nanomagnets investigated by X-ray magnetic circular dichroism*, Annual Meeting of the Danish Chemical Society, June 9, 2011, Odense, Denmark
- *Terahertz - EPR on cyanide-bridged single-molecule magnets*, Low-alpha workshop, December 8, 2010, BESSY, Berlin, Germany
- *Molecular spin clusters: A toolbox for studying magnetism at the nanoscale*, Solid State Seminar, May 19, 2010, Zurich University, Switzerland
- *Observation of Faraday rotation from a single quantum dot spin*, CLEO / IQEC Europe, June 17-22, 2007, Munich, Germany
- *Optical control of an electron spin in a quantum dot*, Scopes - Seminar, September 13, 2006, Lebedev Institute, Moscow, Russia
- *Spin qubits in quantum dots and solid-state cavity-QED*, LEOS annual meeting, October 22-28, 2005, Sydney, Australia

Other conference contributions (contributed talks and posters)

- *Stabilizing the Magnetic Moment of $LnPc_2$ SMMs Using Ultrathin MgO Films* (oral p.), International Conference on Molecule-Based Magnets, Sep 1-5, 2018, Rio de Janeiro, Brazil.
- *Excited Spin-State Trapping in Spin Crossover Complexes on Ferroelectric Substrates* (oral p.), Annual Meeting of the German Physical Society, March 11-16, 2018, Berlin, Germany.

- *Giant Hysteresis of Single-Molecule Magnets Adsorbed on a Nonmagnetic Insulator*(oral p.) 33rd European Conference on Surface Science (ECOSS), Aug 27 – Sep 1st, 2017, Szeged, Hungary.
- *Giant Hysteresis of TbPc₂ Single-Molecule Magnets on MgO* (oral flash pres. + poster), International Conference on Molecule-Based Magnets, Sept. 4-8, 2016, Sendai, Japan
- *Giant Hysteresis of TbPc₂ Single-Molecule Magnets on MgO* (poster pres.), International conference on Vacuum Ultraviolet and X-ray Physics, July 3-8, 2016, Zurich, Switzerland
- *Orienting the Magnetic Easy Axes of Molecular Single-Ion Magnets by a Graphene Interlayer* (oral p.), Annual meeting of the German Physical Society, March 6-11, 2016, Regensburg, Germany
- *Reduction of Mn₁₉ Coordination Clusters on a Gold Surface* (poster presentation), European Conference on Molecular Magnetism, September 6-10, 2015, Zaragoza, Spain
- *X-ray induced demagnetization of single-molecule magnets* (oral p.), Annual meeting of the German Physical Society, March 15-20, 2015, Berlin, Germany
- *Single-ion magnets: Playing with molecule-substrate interactions* (oral p.), JUMP user meeting PSI, September 18-20, 2013, Villigen, Switzerland
- *Exchange coupling in 3d-4f molecular magnets studied by XMCD* (oral p.), MaNEP workshop, Paul Scherrer Institut, November 15, 2012, Villigen, Switzerland
- *Direct observation of a ferri-to-ferromagnetic transition in a fluoride-bridged 3d-4f molecular cluster*, (oral p.), International Conference on Magnetism, July 8-13, 2012, Busan, South Korea
- *Towards molecular spintronics with rare earth single-ion molecular magnets – First results*, (oral p.), 7th Int. Workshop on Nanoscale Spectroscopy and Nanotechnology, July 2-6, 2012, Zurich, Switzerland
- *Towards molecular spintronics with rare earth single-ion molecular magnets – First results* (oral p.), Annual meeting of the Swiss Physical Society, June 21-22, Zurich, Switzerland
- *Towards molecular spintronics with rare earth single-ion molecular magnets - First results* (oral p.), MolCHsurf meeting, June 11, 2012, Swiss National Science Foundation, Bern, Switzerland
- *Direct observation of a ferri-to-ferromagnetic transition in a fluoride-bridged 3d-4f molecular cluster* (oral p.), Annual meeting of the German Physical Society, March 25-30, 2012, Berlin, Germany
- *Towards submonolayers of single-ion magnets and high-spin molecular clusters* (poster), Annual Meeting of the Swiss Working Group on Surface and Interface Science, January 28, 2012, Fribourg, Switzerland

- *X-ray magnetic circular dichroism for the study of 3d-4f molecular nanomagnets* (poster), European Conference on Molecular Magnetism, November 22-25, 2011, Paris, France
- *X-ray magnetic circular dichroism for the study of 3d-4f molecular nanomagnets* (poster), Advanced Complex Inorganic Nanomaterials, September 12, 2011, Namur, Belgium
- *Magnetic exchange coupling in 3d-4f molecular nanomagnets investigated by X-ray magnetic circular dichroism* (oral p.), Annual meeting of the Swiss Physical Society, June 16, 2011, Lausanne, Switzerland
- *Magnetic exchange coupling in a 3d-4f molecular nanomagnet investigated by X-ray magnetic circular dichroism* (oral p.), Annual meeting of the German Physical Society, March 13-18, 2011, Dresden, Germany
- *THz - EPR on cyanide-bridged single-molecule magnets: First results* (oral p.), Annual meeting of the German Physical Society, March 13-18, 2011, Dresden, Germany
- *Molecular nanomagnets: new insights with terahertz-EPR* (poster), Summer school on condensed matter research, August 7-13, 2010, Zuoz, Switzerland
- *Quantized spin waves in the CsFe₈ ring* (oral p.), International conference on magnetism, July 26-31, 2009, Karlsruhe, Germany
- *Quantized spin-wave excitations in CsFe₈: an inelastic neutron scattering study* (oral p.), Annual meeting of the German Physical Society, March 22-27, 2009, Dresden, Germany
- *Investigation of the antiferromagnetic wheel CsFe₈ by inelastic neutron scattering and high-field EPR* (poster), Int. conference on molecule-based magnets, September 20-24, 2008, Florence, Italy
- *High-fidelity preparation of a quantum-dot-electron spin state* (oral p.), Int. conference on nanoscience and technology, July 31- August 7, 2006, Basel, Switzerland
- *Quantum-dot spin-state preparation with near-unity fidelity* (poster), Conference on quantum dots 'QD2006', May 1-5, 2006, Chamonix-Mont Blanc, France
- *High-fidelity preparation of a quantum-dot-electron spin state* (oral p.), Meeting on quantum systems for information technology, March 22, 2006, Engelberg, Switzerland
- *Laser cooling of a single-quantum-dot electron spin* (poster), Annual meeting of the Swiss Physical Society, February 13-14, 2006, Lausanne, Switzerland
- *On the way to all-optical electron-spin detection in a single quantum dot* (oral p.), Swiss National Center for Competence in Research (NCCR) Quantum Photonics, June, 2005, Leysin, Switzerland