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Full Publication List

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Bibliographic Figures

Times cited: 3198; h-index: 27; average citations per item: 45.04 (source: ISI web of knowledge).

Peer-reviewed journal articles (click on title will open article URL in browser)

70 – Understanding the Superior Stability of Single-Molecule Magnets on an Oxide Film

M. Studniarek, C. Wäckerlin, A. Singha, R. Baltic, K. Diller, F. Donati, S. Rusponi, H. Brune, Y. Lan, S. Klyatskaya, M. Ruben, A.P. Seitsonen, [J. Dreiser](#), accepted for publication in *Advanced Science* (2019).

69 – Magnetic Properties of On-Surface Synthesized Single-Ion Molecular Magnets

K. Diller, A. Singha, M. Pivetta, C. Wäckerlin, R. Hellwig, A. Verdini, A. Cossaro, L. Floreano, E. Vélez-Fort, [J. Dreiser](#), S. Rusponi, H. Brune, accepted for publication in *RSC Advances* (2019).

68 – Multimodeling Approach to Ferromagnetic Spin-Wave Excitations in the High-Spin Cluster Mn₁₈Sr Observed by Inelastic Neutron Scattering

S. Nekuruh, J. Nehr Korn, K. Prsa, [J. Dreiser](#), A. M. Ako, C. E. Anson, T. Unruh, A. K. Powell, O. Waldmann, *Inorganic Chemistry* **58**, 11256 (2019).

67 – Large Effect of Metal Substrate on Magnetic Anisotropy of Co on Hexagonal Boron Nitride

I. Gallardo, A. Arnau, F. Delgado, R. Baltic, A. Singha, F. Donati, C. Wäckerlin, [J. Dreiser](#), S. Rusponi, H. Brune, *New Journal of Physics* **21**, 073053 (2019).

66 – Direct Observation of Charge Transfer and Magnetism in Fe₄Co₄ Cyanide-Bridged Molecular Cubes

N. Daffé, J.-R. Jiménez, M. Studniarek, A. Benchohra, M.-A. Arrio, R. Lescouëzec, [J. Dreiser](#), *Journal of Physical Chemistry Letters* **10**, 1799 (2019).

65 – Non-Empirical Calculation of X-ray Magnetic Circular Dichroism in Lanthanide Compounds

H. Ramanantoanina, M. Studniarek, N. Daffé, [J. Dreiser](#), *Chem. Commun.* **55**, 2988 (2019).

64 – Hysteresis Enhancement on a Hybrid Dy(III) Single Molecule Magnet/Iron Oxide Nanoparticle System

L. R. Piquer, M. Escoda-Torroella, M. L. Gairaud, S. Carneros, N. Daffé, M. Studniarek, [J. Dreiser](#), W. Wernsdorfer, E. Carolina Sañudo, *Inorganic Chemistry Frontiers* **6**, 705 (2019).

63 – Stability of Metallo-Porphyrin Networks Under Oxygen Reduction and Evolution Conditions in Alkaline Media

D. Hötger, M. Etzkorn, C. Morchutt, B. Wurster, [J. Dreiser](#), S. Stepanow, D. Grumelli, R. Gutzler, K. Kern, *Phys. Chem. Chem. Phys.* **21**, 2587 (2019).

- 62 – Circular Dichroism and Angular Deviation in X-ray Absorption Spectra of Dy₂ScN@C₈₀ Single-Molecule Magnets on h-BN/Rh(111)**
T. Greber, A. P. Seitsonen, A. Hemmi, J. Dreiser, R. Stania, F. Matsui, M. Muntwiler, A. A. Popov, R. Westerström, *Phys. Rev. Materials* **3**, 014409 (2019).
- 61 – On-Surface Transmetalation of Metalloporphyrins**
D. Hötger, P. Abufager, C. Morchutt, P. Alexa, D. Grumelli, J. Dreiser, S. Stepanow, P. Gambardella, H. F. Busnengo, M. Etzkorn, R. Gutzler, K. Kern, *Nanoscale* **10**, 21116 (2018).
- 60 – Partial Magnetic Ordering in One-Dimensional Arrays of Endofullerene Single-Molecule Magnet Peapods**
S. M. Avdoshenko, F. Fritz, C. Schlesier, A. Kostanyan, J. Dreiser, M. Luysberg, A. A. Popov, C. Meyer, R. Westerström, *Nanoscale* **10**, 18153 (2018).
- 59 – Magnetic Properties of Single Rare Earth Atoms on Graphene/Ir(111)**
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- 58 – 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).
- 57 – Excited Spin-State Trapping in Spin Crossover Complexes on Ferroelectric Substrates**
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- 56 – 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).
- 55 – Engineering On-Surface Spin Crossover: Spin-State Switching in a Self-Assembled Film of Vacuum Sublimable Functional Molecule**
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- 54 – 4f Occupancy and Magnetism of Rare-Earth Atoms Adsorbed on Metal Substrates**
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- 53 – Interplay of Fe and Tm Moments Through the Spin-Reorientation Transition in TmFeO₃**
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- 52 – Nanoscale X-Ray Investigation of Magnetic Metallofullerene Peapods**
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- 51 – 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).

- 50 – Long-Range Ferrimagnetic Order in a Two-Dimensional Supramolecular Kondo Lattice**
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- 49 – Magnetic Memory from Site Isolated Dy(III) on Silica Materials**
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- 48 – Superlattice of Single Atom Magnets on Graphene**
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- 47 – Magnetoelastic Control of Magnetism in an Artificial Multiferroic**
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- 46 – 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).
- 45 – 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).
- 44 – Magnetic Remanence in Single Atoms**
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- 43 – 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).
- 42 – Origin of Perpendicular Magnetic Anisotropy and Large Orbital Moment in Fe Atoms on MgO**
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- 41 – 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).
- 40 – Design of Single-Molecule Magnets: Insufficiency of the Anisotropy Barrier as the Sole Criterion**
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- 39 – Strong Antiferromagnetic Exchange Between Manganese Phthalocyanine and Ferromagnetic Europium Oxide**
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38 – Interfacial Properties of LaMnO₃/LaNiO₃ Superlattices Grown Along (001) and (111) Orientation

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

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

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35 – Reduction of Mn₁₉ Coordination Clusters on a Gold Surface

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34 – 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).

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

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

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

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

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

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27 – Exchange Interaction of Strongly Anisotropic Tripodal Erbium Single-Ion Magnets with Metallic Surfaces

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26 – Tunneling, Remanence, and Frustration in Dysprosium-Based Endohedral Single-Molecule Magnets

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24 – Low Temperature Ferromagnetism in Chemically Ordered FeRh Nanocrystals

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23 – 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

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22 – An Oxide-Bridged Dy-Re(V)-Dy Single-Molecule Magnet

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21 – Mn^{III} Zero-Field Splitting Parameters and Weak Exchange Interactions in a Cyanide-Bridged {Mn^{III}-Ir^{III}-Mn^{III}} Cluster

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18 – An Endohedral Single-Molecule Magnet with Long Relaxation Times: DySc₂N@C₈₀

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17 – 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).

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

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- 14 – Frequency-Domain Fourier-Transform Terahertz Spectroscopy of the Single-Molecule Magnet $(\text{NEt}_4)[\text{Mn}_2(\text{5-Brsalen})_2(\text{MeOH})_2\text{Cr}(\text{CN})_6]$**
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- 13 – High-Frequency Electron-Spin-Resonance Study of the Octanuclear Ferric Wheel CsFe_8**
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- 11 – Quantized Antiferromagnetic Spin Waves in the Molecular Heisenberg Ring CsFe_8**
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).
- 10 – 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).
- 9 – 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).
- 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. Imamoğlu, 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. Imamoğlu, B. D. Gerardot, P. M. Petroff, *J. Supercond. Novel Magn.* **18**, 245 (2005).

Book chapters

B1 – Optical Control of Quantum Dot-Spin States (Book Chapter)

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

Conference proceedings

C1 – 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).

Invited talks (>=21 within the last 10 years)

- *Studying Functional Molecular Materials by X-ray Absorption Spectroscopy*
Seminar, Max-Planck Institute for Chemical Energy Conversion, May 21, 2019, Mülheim, Germany.
- *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 Hönggerberg, 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, Zuz, 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 (within last 10 years: ≥ 18 contributed talks and ≥ 7 posters)

- *Excited Spin-State Trapping in Spin Crossover Complexes on Ferroelectric Substrates* (oral p.), 7th European Conference on Molecular Magnetism, September 15-18, 2019, Florence, Italy.
- *Interface Engineering for the Stabilization of Single-Molecule Magnetic Bits* (oral p.), 2nd Conference on Interface Properties in Organic and Hybrid Electronics, July 8-11, 2019, Cergy-Pontoise, France.
- *Stabilizing the Magnetic Moment of LnPc₂ 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, 2012, 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