

ARBEITSGRUPPEN DEPARTEMENT FÜR CHEMIE UND BIOCHEMIE

Ordner 1

PROF. U. BAUMANN

1. Schutz P, Bumann M, Oberholzer A, Bieniossek C, Trachsel H, Altmann M*, Baumann U* (2008). Crystal structure of the yeast elf4A-eIF4G complex: An RNA helicase controlled by protein-protein interactions. *Proceed. Natl. Acad. Sciences U.S.A.* **105**, 9564-9.
2. Zurbriggen A, Jeckelmann JM, Christen S, Bieniossek C, Baumann U*, Erni B* (2008). X-ray structures of the three *I. lactis* dihydroxyacetone kinase subunits and of a transient inter subunit complex. *J Biol Chem* **283**, 35789-96.

PROF. P. BIGLER

3. P. Bigler
Spec. Letters **41**, 162-165 (2008)
Fast ¹³C-NMR Spectral Editing for Determining CH_n Multiplicities
4. M. Vermathen, P. Vermathen, U. Simonis, P. Bigler
Langmuir **24** (21), 12521-12533 (2008)
Time-Dependent Interactions of the Two Porphyrinic Compounds Chlorin e6 and Mono-I-asparyl-cholin e6 with Phospholipid Vesicles Probed by NMR Spectroscopy

DR. P. BROECKMANN

5. **Tagungsbeitrag:**
14th Meeting of The Electrochemical Society (ECS), Honolulu, Hawaii, US
12/10/2008 – 17/10/2008
“Synergistic Additive-Additive Interactions in the Copper Electroplating Process”
(Regular talk)

PROF. G. CALZAFERRI

6. Olivia Bossart, Gion Calzaferri
Selfassembly of zeolite L crystals on biological self-cleaning surfaces
Microporous and Mesoporous Materials, 109, 392 - 397 (2008).
7. Michael Busby, Hannes Kerschbaumer, Gion Calzaferri, Luisa De Cola
Orthogonally Bifunctional Fluorescent Zeolite-L Microcrystals
Advanced Materials, 20, 1614 - 1618 (2008).

8. Le-Quyen Dieu, André Devaux, Ismael López-Duarte, M. Victoria Martínez-Díaz, Dominik Brühwiler, Gion Calzaferri, Tomás Torres
Novel phthalocyanine-based stopcock for zeolite L
Chem. Commun., 1187 - 1189 (2008).
9. Monguzzi, G. Macchi, F. Meinardi, R. Tubino, M. Burger, G. Calzaferri
Sensitized near infrared emission from lanthanide-exchanged zeolites
Applied Physics Letters, 92, 123301-1 - 123301-3 (2008).
10. Michael Busby, Christian Blum, Marc Tibben, Sandra Fibikar, Gion Calzaferri, Vinod Subramaniam, Luisa De Cola
Time, Space, and Spectrally Resolved Studies on J-Aggregate Interactions in Zeolite L Nanochannels
J. Amer. Chem. Soc., 130, 10970 - 10976 (2008).
11. Gion Calzaferri, Katsiaryna Lutkouskaya
Mimicking the antenna system of green plants
Photochemical & Photobiological Sciences, 7, 879 - 910 (2008).
12. Chenyi Yi, Carmen Blum, Shi-Xia Liu, Ying-Fen Ran, Gabriela Frei, Antonia Neels, Helen Stoeckli-Evans, Gion Calzaferri, Samuel Leutwyler, Silvio Decurtins
A Layered Red-Emitting Chromophoric Organic Salt
Crystal Growth & Design, 8, 3004 - 3009 (2008).
13. Gion Calzaferri, Huanrong Li, Dominik Brühwiler
Dye Modified Nanochannel Materials for Photoelectronic and Optical Devices
Chem. Eur. J., 14, 7442 - 7449 (2008).
14. Yige Wang, Huanrong Li, Binyuan Liu, Quanying Gan, Qinglin Dong, Gion Calzaferri, Zheng Sun
Fabrication of oriented zeolite L monolayer via covalent molecular linkers
Journal of Solid State Chemistry, 181, 2469 - 2472 (2008).
15. Gion Calzaferri
Dye in nanochannels boosts performance of artificial photonic antenna systems
SPIE Newsroom, 10.1117/2.1200805.1162 (2008).
16. **Buchbeiträge**

Z. Ruiz, D. Brühwiler, L.-Q. Dieu, G. Calzaferri
Controlling Size and Morphology of Zeolite L
Materials Syntheses - A Practical Guide, Editors: U. Schubert, N. Hüsing, R. Laine, Springer Wien, ISBN 978-3-211-75124-4, 9 - 19 (2008).

Leiggener, A. Currao, G. Calzaferri
Zeolite A and ZK-4
Materials Syntheses - A Practical Guide, Editors: U. Schubert, N. Hüsing, R. Laine, Springer Wien, ISBN 978-3-211-75124-4, 21 - 28 (2008).
17. **Tagungsbeiträge**

Gion Calzaferri, Huanrong Li
Mimicking the antenna system of green plants
Proc. SPIE, Vol. 7002, 700202-1 - 700202-7 (2008); DOI: 10.1117/2.1200805.1162;
<http://spie.org/x24946.xml?ArticleID=x24946>.

18. **Patente**

Gion Calzaferri

Dye Loaded Zeolite Material Containing Devices
US 7,327,012; granted May 13, 2008.

H. J. Metz, G. Calzaferri, S. Suarez, A. Devaux, A. Kunzmann
Transparent zeolite-polymer hybrid material with tunable properties
EP 1873202, published January 2, 2008, granted.

Z. Popovi'c, M. Tsotsalas, M. Busby, L. De Cola, G. Calzaferri, H. P. Josel
Method for the preparation of Micro-Porous Crystals and Conjugates thereof
WO 2008/052603, published May 8, 2008, pending.

G. Calzaferri, A. Kunzmann, D. Brühwiler, C. Baur
Lumineszenzkonzentratoren und Lumineszenzdispergatoren auf der Basis orientierter
Farbstoff-Zeolith Antennen
CH-1016/08, submitted July 1, 2008, pending.

L. De Cola, M. Busby, G. Calzaferri, C. Blum, V. Subramaniam
Method for intercalating chromophores into Zeolite L nanochannels and products thereof
UK 0812218.6, submitted July 2, 2008, pending.

PROF. M. CASCELLA

19. M. Cascella, M. A. Neri, P. Carloni and M. Dal Peraro
Topologically-reconstructed long-range electrostatic interactions in multiscale simulations of proteins
J. Chem. Theory Comput. 4: 1378-1385 (2008) [+cover page]
20. F. El-Turk, M. Cascella, H. Ouertatani-Sakouhi, R. L. Narayanan, L. Leng, R. Bucala, M. Sweckstetter, U. Rothlisberger and H. A. Lashuel
The conformational flexibility of the carboxy terminal residues 105-114 is a key modulator of the catalytic activity and stability of macrophage migration inhibitory factor
Biochemistry 47: 10740-10756 (2008)

21. **Tagungsbeiträge**Invited talks:

CPMD MEETING 2008 - Conference on modeling and computation of structure and dynamics of condensed phase systems - Location: International Centre for Theoretical Physics ICTP, Trieste, Italy. 23-27 June 2008
Electronic structure / function relationship in copper-bound metalloenzymes investigated by hybrid QM/MM simulations

BERNER CHEMISCHE GESELLSCHAFT - Bern, 15 October 2008
From the Schroedinger equation to the living matter: challenges and perspectives in computer-aided molecular simulations

Contributed talks:

8th CONGRESS OF THE WATOC (World Association of Theoretical and Computational Chemists) - Location: Sydney, Australia. 14-19 September 2008.
Topologically-reconstructed long-range electrostatic interactions in multiscale simulations of proteins

PROF. S. DECURTINS

22. C. Goze, S.-X. Liu, C. Leiggenger, L. Sanguinet, E. Levillain, A. Hauser, S. Decurtins *Tetrahedron* **2008**, *64*, 1345-1350.
Synthesis of new ethynylbipyridine-linked mono- and bis-tetrathiafulvalenes: electrochemical, spectroscopic and Ru(II)-binding studies.
23. Y.-H. Deng, J. Liu, B. Wu, C. Ambrus, T. D. Keene, O. Waldmann, S.-X. Liu, S. Decurtins, X.-J. Yang, *Eur. J. Inorg. Chem.* **2008**, 1712-1718.
Comparing techniques for modelling spin- $\frac{1}{2}$ Heisenberg antiferromagnetic chains using a new coordination polymer: $[\text{Cu}(\text{II})(\text{HL})_2(4,4'\text{-bpy})]_n$ (H_2L = 3-nitrophthalic acid, bpy = bipyridine).
24. T. Samuely, S.-X. Liu, N. Wintjes, M. Haas, S. Decurtins, T. A. Jung, M. Stöhr, *J. Phys. Chem. C* **2008**, *112*, 6139-6144.
Two-Dimensional Multiphase Behavior Induced by Sterically Hindered Conformational Optimization of Phenoxy Substituted Phthalocyanines.
25. J.-C. Wu, S.-X. Liu, T. D. Keene, A. Neels, C. E. Anson, A. K. Powell, S. Decurtins, *Inorg. Chem.* **2008**, *47*, 3452-3459.
Coordination Chemistry of a π -Extended, Rigid and Redox-Active Tetrathiafulvalene-Fused Schiff-Base Ligand.
26. C.-Y. Yi, C. Blum, S.-X. Liu, Y.-F. Ran, G. Frei, A. Neels, H. Stoeckli-Evans, G. Calzaferri, S. Leutwyler, S. Decurtins, *Cryst. Growth Des.* **2008**, *8*, 3004-3009.
A layered red-emitting chromophoric organic salt.
27. S. G. Bacca, I. L. Malaestean, T. Keene, H. Adams, M. D. Ward, J. Hauser, A. Neels, S. Decurtins, *Inorg. Chem.* **2008**, *47*, 11108-11119.
One-Dimensional Manganese Coordination Polymers Composed of Polynuclear Cluster Blocks and Polypyridyl Linkers: Structures and Properties.
28. J. M. Herrera, P. Franz, R. Podgajny, M. Pilkington, M. Biner, S. Decurtins, H. Stoeckli-Evans, A. Neels, R. Garde, Y. Dromzée, M. Julve, B. Sieclucka, K. Hashimoto, S.-I. Okhoshi, M. Verdaguer, *C. R. Chimie* **2008**, *11*, 1192-1199.
Three-Dimensional Bimetallic Octacyanidometalates $[\text{M}^{\text{IV}}\{(\mu\text{-CN})_4\text{Mn}^{\text{II}}(\text{H}_2\text{O})_2\}_2 \cdot 4\text{H}_2\text{O}]_n$ [M = Nb, Mo, W]. Synthesis, Single-Crystal X-ray Diffraction and Magnetism.
29. C. Yi, C. Blum, S.-X. Liu, G. Frei, A. Neels, P. Renaud, S. Leutwyler, S. Decurtins, *J. Org. Chem.* **2008**, *73*, 3596-3599.
An Efficient and Facile Synthesis of Highly Substituted 2,6-Dicyanoanilines.
30. B. Gillon, J. Larionova, E. Ruiz, Q. Nau, A. Goujon, F. Bonadio, S. Decurtins, *Inorg. Chim. Acta* **2008**, *361*, 3609-3615.
Experimental and Theoretical Study of the Spin Ground State of the High-Spin Molecular Cluster $[\text{Ni}(\text{II})\{\text{Ni}(\text{II})(\text{CH}_3\text{OH})_3\}_8(\mu\text{-CN})_{30}\{\text{M}(\text{V})(\text{CN})_3\}_6] \cdot 15\text{CH}_3\text{OH}$ by Polarized Neutron Diffraction and DFT Calculations.
31. C. Yi, C. Blum, S.-X. Liu, G. Frei, A. Neels, H. Stoeckli-Evans, S. Leutwyler, S. Decurtins, *Tetrahedron* **2008**, *64*, 9437-9441.
An efficient one-pot synthesis of strongly fluorescent (hetero)arenes polysubstituted with amino and cyano groups.
32. J. E. Beves, E. C. Constable, S. Decurtins, E. L. Dunphy, C. E. Housecroft, T. D. Keene, M. Neuburger, S. Schaffner, *CrystEngComm.* **2008**, *10*, 986-990.
Homoleptic metal complexes of 4'-(5-Pyrimidinyl)-2,2':6',2''-terpyridine: tetrafurcated expanded ligands.

33. N. Bouquin, V. L. Malinovskii, X. Guégano, S.-X. Liu, S. Decurtins, R. Häner, *Chem. Eur. J.* **2008**, *14*, 5732-5736.
TTF-Modified DNA.
34. I. Zimmermann, T. D. Keene, A. Neels, S. Decurtins, *Acta Cryst.* **2008**, *E64*, m845-m846.
Di- μ -acetato- μ -aqua-bis[acetatobis(1*H*-benzimidazole)cobalt(II)].
35. C. Goze, N. Dupont, E. Beitler, C. Leiggenger, H. Jia, P. Monbaron, S.-X. Liu, A. Neels, A. Hauser, S. Decurtins, *Inorg. Chem.* **2008**, *47*, 11010-11017.
Ru(II) Coordination Chemistry of a Fused Donor-Acceptor Ligand: Synthesis, Characterization, and Photoinduced Electron-Transfer Reactions of $[\{\text{Ru}(\text{bpy})_2\}_n(\text{TTF-ppb})](\text{PF}_6)_{2n}$ ($n = 1, 2$).

PROF. B. ERNI

36. Zurbriggen, A., Jeckelmann, J.M., Christen, S., Bieniossek, C., Baumann, U., and Erni, B.
X-ray Structures of the Three *Lactococcus lactis* Dihydroxyacetone Kinase Subunits and of a Transient Intersubunit Complex
J.Biol.Chem. **283**: 35789-35796, (2008).

PROF. D.J. FERMÍN

37. J. Zhao, C.R. Bradbury, D.J. Fermín,
Long-Range Electronic Communication Between Metal Nanoparticles and Electrode Surfaces Separated by Polyelectrolyte Multilayer,
J. Phys. Chem. C **112** (2008) 6832-6841.
38. J. Zhao, M. Wasem, C.R. Bradbury, D.J. Fermín,
Charge Transport Across Self-Assembled Nanoscale Metal-Insulator-Metal Heterostructures,
J. Phys. Chem. C **112** (2008) 7284-7289.
39. F. Li, I. Ciani, P. Bertocello, P.R. Unwin, J. Zhao, C.R. Bradbury, D.J. Fermín,
Scanning Electrochemical Microscopy of Redox-Mediated Hydrogen Evolution Catalyzed by Two-Dimensional Assemblies of Palladium Nanoparticles,
J. Phys. Chem. C **112** (2008) 9686-9694.
40. C.R. Bradbury, J. Zhao, D.J. Fermín,
Distance-Independent Charge-Transfer Resistance at Gold Electrodes Modified by Thiol Monolayers and Metal Nanoparticles,
J. Phys. Chem. C **112** (2008) 10153-10160.
41. C.R. Bradbury, C. Bünzli, J. Zhao, M. Carrara, G.P. Kissling, E. Aslan-Gürel, D.J. Fermín,
Modulating the Reactivity of Electrode Surfaces by Electrostatic Assembly of Metal Nanoparticles and Quantum Dots,
Chimia **62** (2008) 841-846.

PROF. H. GÄGGELER

42. R. Eichler, N.V. Aksenov, A.V. Belozherov, G.A. Bozhikov, V.I. Chepigin, R. Dressler, S.N. Dmitriev, **H.W. Gäggeler**,
V.A. Gorshkov, F. Haenssler, M.G. Itkis, V.Y. Lebedev, A. Laube, O.N. Malyshev, Yu.Ts.

- Oganessian, O.V. Petruschkin, D. Piguët, P. Rasmussen, A. Serov, S.V. Shishkin, A.V. Shutov, A.I. Svirikhin, E.E. Tereshatov, G.K. Vostokin, M. Wegrzecki, A.V. Yeremin
Thermochemical and physical properties of element 112
Angew.Chem. Int. Ed., **47(17)**, 3262-3266 (2008).
43. R. Eichler, N.V. Aksenov, A.V. Belozеров, G.A. Bozhikov, V.I. Chepigin, R. Dressler, S.N. Dmitriev, **H.W. Gäggeler**, V.A. Gorshkov, F. Haenssler, M.G. Itkis, V.Y. Lebedev, A. Laube, O.N. Malyshev, Yu.Ts. Oganessian, O.V. Petruschkin, D. Piguët, P. Rasmussen, A. Serov, S.V. Shishkin, A.V. Shutov, A.I. Svirikhin, E.E. Tereshatov, G.K. Vostokin, M. Wegrzecki, A.V. Yeremin
Thermochemische und physikalische Eigenschaften von Element 112
Angew. Chem. **120(17)**, 3306-3310 (2008).
44. E. E. Tereshatov, H. Bruchertseifer, G.A. Bozhikov, N.V. Aksenov, G.Ya. Starodub, G.K. Vostokin, A.G. Belov, S.V. Shishkin, S.N. Dmitriev, **H.W. Gäggeler**, R. Eichler, D. Schumann
Cation-Exchange Separation of Group V Elements: Model Experiments on Isolation and Chemical Identification of Db Radiochemistry 50 (**3**), 290-293 (2008).
45. T. Bartels-Rausch, T. Huthwelker, M. Jöri, **H. W. Gäggeler**, M. Ammann
Interaction of gaseous elemental mercury with snow surfaces: Laboratory investigation
Env. Res. Let. **3(4)**, 045009 (2008).
46. M. Kerbrat, B. Pinzer, T. Huthwelker, **H. W. Gäggeler**, M. Ammann, M. Schneebeli
Measuring the specific surface area of snow with x-ray tomography and gas adsorption: Comparison and implications for surface smoothness
Atmos. Chem. Phys. **8(5)**, 1261-1275 (2008).
47. O. Vesna, S. Sjogren, E. Weingartner, V. Samburova, M. Kalberer, **H. W. Gäggeler**, M. Ammann
Changes of fatty acid aerosol hygroscopicity induced by ozonolysis under humid conditions
Atmos. Chem. Phys. **8(16)**, 4683-4690 (2008).
48. E.E. Tereshatov, H. Bruchertseifer, G.A. Bozhikov, N.V. Aksenov, G.Ya. Starodub, G.K. Vostokin, A.G. Belov, S.V. Shishkin, S.N. Dmitriev, **H.W. Gäggeler**, R. Eichler, D. Schumann
Cation Exchange Separation of Group V Elements: Model Experiments on Isolation and Chemical Identification of Db
Radiochemistry, 2008, Vol.50, No.3, pp. 290-293.
49. **REPORTS**
H.W. Gäggeler, S. Szidat, E. Vogel, Leonhard Tobler
²¹⁰Pb Messungen in Niederschlagsproben
BAG (Federal Office of Public Health) report "Umweltradioaktivität und Strahlendosen in der Schweiz 2007", Bern 2008.
50. **CONTRIBUTIONS TO CONFERENCES, WORKSHOPS AND SEMINARS**
H.W. Gäggeler
Chemical Studies with single Atoms of Superheavy Elements
Technical University Prague, Czech Republic, 3 March 2008.

H.W. Gäggeler

How chemists have reached the island of superheavy elements

Symp. on the occasion of the 75th birthday of Y.T. Oganessian, Dubna, Russia, 24 May 2008.

H.W. Gäggeler

Die naturwissenschaftlichen Grundlagen des Klimawandels: ,Umweltforschung anhand von Gletschereis,

Weiterbildung der PH Bern, Switzerland, 31 May 2008.

H.W. Gäggeler

Happy landing on the island of superheavy elements

CERN, Geneva, Switzerland, 19 August 2008.

H.W. Gäggeler

Long-term air pollution records retrieved from Alpine ice cores

Workshop "Spawning the Atmosphere Measurements of Jungfrauoch", Swiss Academy of Sciences, Bern, Switzerland, 25/26 November 2008.

T. Bartels-Rausch, M. Jöri, T. Huthwelker, **H. W. Gäggeler**, M. Ammann

Interaction of gaseous, elemental mercury with snow surfaces: Laboratory investigations

AICI-HiT Workshop "Ice and Halogens: Laboratory Studies to Improve the Modelling of Field Data", British Antarctic Survey, Cambridge, UK, 16-18 June 2008.

Ciric, L. Tobler, **H.W. Gäggeler**, G. Casassa, M. Schwikowski

Source apportionment of trace species and possible ENSO detection in the Mercedario ice core

7th NCCR Climate Summer School, Monte Verità, Switzerland, 31 August-05 September 2008.

Ciric, L. Tobler, **H.W. Gäggeler**, G. Casassa, M. Schwikowski

An ice core record from Mercedario (32°S), Central Argentinean Andes

4th EGU Alexander von Humboldt International Conference "The Andes: Challenge for Geosciences",

Santiago, Chile, 24-28 November 2008.

T. Kellerhals, S. Brütsch, M. Sigl, S. Knüsel, **H.W. Gäggeler**, M. Schwikowski

Holocene climatic fluctuations including Medieval Warm Period and Little Ice Age type events in tropical

South America deduced from Illimani ice core

4th EGU Alexander von Humboldt International Conference "The Andes: Challenge for Geosciences",

Santiago, Chile, 24-28 November 2008.

M. Sigl, T.M. Jenk, T. Kellerhals, M. Ruff, S. Szidat, C. Boutron, C. Barbante, H.-A. Synal,

H.W. Gäggeler,

M. Schwikowski

Radiocarbon dating of glacier ice on a microgram level – examples from the Alps and the Andes

EGU General Assembly, Vienna, Austria, 13–18 April 2008.

M. Sigl, T.M. Jenk, T. Kellerhals, M. Ruff, S. Szidat, C. Boutron, C. Barbante, H.-A. Synal,

L. Wacker, **H.W. Gäggeler**,

M. Schwikowski

Radiocarbon dating of glacier ice on a microgram level – examples from the Alps and the Andes

7th NCCR Climate Summer School, Monte Verità, Switzerland, 31 Aug.-05 Sept. 2008.

M. Ruff, **H.W. Gäggeler**, M. Suter, H.-A. Synal, S. Szidat, L. Wacker
Fully automated radiocarbon AMS measurements with elemental analyser and gas ion source

Frühjahrstagung der Deutschen Physikalischen Gesellschaft – Fachverband
Massenspektrometrie, Darmstadt, Germany,
10-14 March 2008.

M. Ruff, **H.W. Gäggeler**, I. Hajdas, T. Jenk, M. Němec, S. Riedi, M. Sigl, M. Suter, H.-A. Synal, S. Szidat, L. Wacker
Radiocarbon Dating of small Samples
5th International Symposium on Radiocarbon and Archaeology, Zurich, Switzerland, 26-28 March 2008.

S. Fahrni, **H. W. Gäggeler**, I. Hajdas, M. Ruff, S. Szidat, L. Wacker
A direct combination of CuO oxidation with a gas ion source for small ^{14}C samples
11th International Conference on Accelerator Mass Spectrometry, Rome, Italy, 14- 19 September 2008.

M. Ruff, S. Fahrni, **H.W. Gäggeler**, M. Suter, H.-A. Synal, S. Szidat, L. Wacker
Radiocarbon Measurements with the MICADAS Gas Ion Source
11th International Conference on Accelerator Mass Spectrometry, Rome, Italy, 14-19 September 2008.

PROF. H. U. GÜDEL

51. E. van der Kolk, P. Dorenbos, K. Krämer, D. Biner and H. U. Güdel
High-resolution luminescence spectroscopy study of down-conversion routes in $\text{NaGdF}_4:\text{Nd}^{3+}$ and $\text{NaGdF}_4:\text{Tm}^{3+}$ using synchrotron radiation
Phys. Rev. B **77**, 125110/1-7 (2008)
52. Oliver Waldmann, Ayuk M. Ako, Hans U. Güdel and Annie K. Powell
Assessment of the Anisotropy in the Molecule Mn_{19} with a High-Spin Ground State $S = 83/2$ by 35 GHz Electron Paramagnetic Resonance
Inorg. Chem. **47**, 3486-3488 (2008)
53. Ch. Rüegg, B. Normand, M. Matsumoto, A. Furrer, D. F. McMorrow, K. W. Krämer, H.-U. Güdel, S. N. Gvasaliya, H. Mutka and M. Boehm
Quantum Magnets under Pressure: Controlling Elementary Excitations in TlCuCl_3
Phys. Rev. Lett. **100**, 205701/1-4 (2008)
54. M. D. Birowosuto, P. Dorenbos, K. W. Krämer and H. U. Güdel
 Ce^{3+} activated $\text{LaBr}_{3-x}\text{I}_x$: High-light-yield and fast-response mixed halide scintillators
J. Appl. Phys. **103**, 103517/1-6 (2008)
55. Stefan T. Ochsenein, Floriana Tuna, Marzio Rancan, Rachel S. G. Davies, Christopher A. Muryn, Oliver Waldmann, Roland Bircher, Andreas Sieber, Graham Carver, Hannu Mutka, Felix Fernandez-Alonso, Andrew Podlesnyak, Larry P. Engelhardt, Grigore A. Timco, Hans U. Güdel and Richard E. P. Winpenny
Studies of Finite Molecular Chains: Synthesis, Structural, Magnetic and Inelastic Neutron Scattering Studies of Hexa- and Heptanuclear Chromium Horseshoes
Chem. Eur. J. **14**, 5144-5158 (2008)

56. M. Danang Birowosuto, Pieter Dorenbos, Johan T. M. de Haas, Carel W. E. van Eijk, Karl W. Krämer and H. U. Güdel
Li-Based Thermal Neutron Scintillator Research; $\text{Rb}_2\text{LiYBr}_6 : \text{Ce}^{3+}$ and Other Elpasolites
IEEE Trans. Nucl. Sci. **55**, 1152-1155 (2008)
57. M. Danang Birowosuto, Pieter Dorenbos, G. Bizarri, Carel W. E. van Eijk, Karl W. Krämer and H. U. Güdel
Temperature Dependent Scintillation and Luminescence Characteristics of $\text{GdI}_3 : \text{Ce}^{3+}$
IEEE Trans. Nucl. Sci. **55**, 1164-1169 (2008)
58. Dominik Schaniel, Theo Woike, Bernard Delley, Colette Boskovic and Hans-Ueli Güdel
Photogeneration of metastable side-on N_2 linkage isomers in $[\text{Ru}(\text{NH}_3)_5\text{N}_2]\text{Cl}_2$,
 $[\text{Ru}(\text{NH}_3)_5\text{N}_2]\text{Br}_2$ and $[\text{Os}(\text{NH}_3)_5\text{N}_2]\text{Cl}_2$
Phys. Chem. Chem. Phys. **10**, 5531-5538 (2008)
59. R. Valiente, I. Hernández, F. Rodríguez, F. Aguado, H. U. Güdel and K. Krämer
High-pressure induced absorption line narrowing in $\text{Cs}_3\text{Yb}_2\text{Cl}_9$
J. Phys. Conf. Ser. **121**, 042002/1-5 (2008)

PROF. R. HÄNER

60. H. Bittermann, D. Siegemund, V.L. Malinovskii, R. Häner:
Dialkynylpyrenes: strongly fluorescent, environment-sensitive DNA building blocks
J. Am. Chem. Soc. **2008**, *130*, 15285-15287.
61. N. Bouquin, V.L. Malinovskii, X. Guégano, S.-X. Liu, S. Decurtins, R. Häner:
TTF-Modified DNA
Chem. Eur. J. **2008**, 5732-5736.
62. S. Werder, V.L. Malinovskii, R. Häner:
Triazolylpyrenes: Synthesis, Fluorescence Properties and Incorporation into DNA
Org. Lett. **2008**, *10*, 2011-2014.
63. N. Bouquin, V.L. Malinovskii, R. Häner:
Highly efficient quenching of excimer fluorescence by perylene diimide in DNA
Chem. Commun. **2008**, 1974-1976.
This Paper was featured as a ['Hot Article'](#)
64. N. Bouquin, V.L. Malinovskii, R. Häner:
Anthraquinones as Artificial DNA Building Blocks
Eur. J. Org. Chem. **2008**, 2213-2219.
65. F. Samain, V.L. Malinovskii, S. M. Langenegger, R. Häner:
Spectroscopic Properties of Pyrene-Containing DNA Mimics
Bioorg. Med. Chem. **2008**, *16*, 27-33
66. **Patent**

R. Jaggi, R. Häner
Method and reagent for optimized isolation of RNA from fixed tissue
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