

Publications Gion Calzaferri <http://orcid.org/0000-0003-0854-497X>

- 299 *Influence of alkali cations on the complete Ar adsorption isotherms of zeolite L*,
Gion Calzaferri
Results in Chemistry Volume 27, 15 July 2026, 103445
<https://doi.org/10.1016/j.rechem.2026.103445>
- 298 *A unified description of ion exchange and complete adsorption isotherms, including cluster growth and cavity filling*.
Gion Calzaferri, Dominik Brühwiler
Microporous and Mesoporous Materials 377, **2024**, 113223, 1-14
<https://doi.org/10.1016/j.micromeso.2024.113223>
- 297 *Multiple equilibria description of H1 hysteresis in gas sorption isotherms of mesoporous materials*
Gion Calzaferri, Samuel H. Gallagher, Simon Lustenberger, Fabian Walther, Dominik Brühwiler
Material Chemistry and Physics 296, **2023**, 127121, 1-8
<https://doi.org/10.1016/j.matchemphys.2022.127121>
- 296 *Multiple equilibria describe the complete adsorption isotherms of nonporous, microporous, and mesoporous materials*
Gion Calzaferri, Samuel H. Gallagher, Dominik Brühwiler
Microporous Mesoporous Materials, 330, **2022**, 111563, 1-11.
<https://doi.org/10.1016/j.micromeso.2021.111563>
- 295 *Entropy in multiple equilibria. Argon and nitrogen adsorption isotherms of nonporous, microporous, and mesoporous materials*
Gion Calzaferri, Samuel H. Gallagher, Dominik Brühwiler
Microporous Mesoporous Materials, 312, **2021**, 110744, 1-12.
<https://doi.org/10.1016/j.micromeso.2020.110744>
- 294 *Guests in Nanochannels of Zeolite L*
Gion Calzaferri
Structure and Bonding. Springer Nature Switzerland, **2020**, 183, 1-74.
https://doi.org/10.1007/430_2020_57
- 293 *Entropy in multiple equilibria, compounds with different sites*
Gion Calzaferri
Phys. Chem. Chem. Phys., **2018**, 20, 29070-29084.
<https://doi.org/10.1039/C8CP04145H>
<https://pubs.rsc.org/en/Content/ArticleLanding/2018/CP/C8CP04145H>
- 292 *Structure and Host-Guest Interactions of Perylene-Diimide Dyes in Zeolite L Nanochannels*.
Lara Gigli, Rossella Arletti, Gloria Tabacchi, Marco Fabbiani, Jenny G. Vitillo, Gianmario Martra, Andre Devaux, Ivana Miletto, Simona Quartieri, Gion Calzaferri, Ettore Fois
J. Phys. Chem. C, **2018**, 122, 3401-3418.
<https://pubs.acs.org/doi/10.1021/acs.jpcc.7b10607>
- 291 *Entropy in multiple equilibria, systems with two different sites*
Gion Calzaferri
Sciforum Electronic Conference Series, ECEA **2017**.
Proceedings **2018**, 2, 168 (page 1-9). doi:10.3390/ecea-4-05019
<http://sciforum.net/conference/ecea-4/paper/5019>
www.mdpi.com/journal/proceedings

- 290 *Entropy in Multiple Equilibria, Theory and Applications*
Gion Calzaferri
Phys. Chem. Chem. Phys. **2017**, 19, 10611-10621.
<https://doi.org/10.1039/C7CP00584A>
- 289 *One-dimensional self-assembly of perylene-diimide dyes by unidirectional transit of zeolite channel openings*
Gloria Tabacchi, Gion Calzaferri, Ettore Fois
Chemical Communication **2016**, 52, 11195-111598. DOI: 10.1039/C6CC05303C
<https://pubs.rsc.org/en/content/articlelanding/2016/cc/c6cc05303c>
- 288 *Supramolecular Organization of Dye Molecules in Zeolite L Channels: Synthesis, Properties, and Composite Materials*
Pengpeng Cao, Oleg Khorev, André Devaux, Lucie Sägesser, Andreas Kunzmann, Achim Ecker, Robert Häner, Dominik Brühwiler, Gion Calzaferri, Peter Belser
Chemistry a European Journal **2016**, 22, 4046 -4060.
DOI: 10.1002/chem.201504404
<http://onlinelibrary.wiley.com/doi/10.1002/chem.201504404>
- 287 *Structure of Nanochannels Entrances in Stopcock-Functionalized Zeolite L Composites*
Gloria Tabacchi, Ettore Fois, Gion Calzaferri
Angew. Chem. Int. Ed. **2015**, 54, 11112 –11116.
DOI: 10.1002/anie.201504745
<https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201504745>
- 286 *Formation of Two Homo-chromophoric H-Aggregates in DNA-Assembled Alternating Dye Stacks*
Christian B. Winiger, Simon M. Langenegger, Gion Calzaferri, Robert Häner
Angew. Chem. Int. Ed. **2015**, 54, 3643-3647.
DOI: 10.1002/anie.201410041
<https://doi.org/10.1002/anie.201410041>
- 285 *Efficient and Robust Host-Guest Antenna Composite for Light Harvesting*
André Devaux, Gion Calzaferri, Peter Belser, Pengpeng Cao, Dominik Brühwiler, Andreas Kunzmann
Chem. Mater., ACS, Chem. Mater. **2014**, 26, 6878–6885.
<dx.doi.org/10.1021/cm503761q>
<https://pubs.acs.org/doi/10.1021/cm503761q>
- 284 *Luminescence Enhancement after Adding Stoppers to Europium(III) Nanozeolite L*
Peng Li, Yige Wang, Huanrong Li, Gion Calzaferri
Angew. Chem. Int. Ed. **2014**, 53, 2904-2909.
DOI: 10.1002/anie.201310485
<https://onlinelibrary.wiley.com/doi/full/10.1002/anie.201310485>
- 283 *Self-Absorption and Luminescence Quantum Yields of Dye-Zeolite L Composites*
André Devaux, Gion Calzaferri, Ivana Miletto, Pengpeng Cao, Peter Belser, Dominik Brühwiler, Oleg Khorev, Robert Häner, Andreas Kunzmann
J. Phys. Chem. C, **2013**, 117, 23034–23047.
<dx.doi.org/10.1021/jp408556g>
<https://pubs.acs.org/doi/10.1021/jp408556g>

- 282 *Formation of Two-Dimensional Supramolecular Polymers by Amphiphilic Pyrene Oligomers*
Mykhailo Vybornyi, Alexander V. Rudnev, Simon M. Langenegger, Thomas Wandlowski, Gion Calzaferri, Robert Häner
Angew. Chem. Int. Ed. **2013**, 52, 11488–11493.
DOI: 10.1002/anie.201307029
<https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201307029>
- 281 *Host-Guest Interactions and Orientation of Dyes in the One-Dimensional Channels of Zeolite L*
Ettore Fois, Gloria Tabacchi, André Devaux, Peter Belser, Dominik Brühwiler, Gion Calzaferri
Langmuir **2013**, 29, 9188–9198.
[dx.doi.org/10.1021/la400579w](https://doi.org/10.1021/la400579w)
<https://pubs.acs.org/doi/10.1021/la400579w>
- 280 *First-principles simulations of absorption bands of fluorenone in zeolite L*
Xiuwen Zhou, Tomasz A. Wesolowski, Gloria Tabacchi, Ettore Fois, Gion Calzaferri, André Devaux
Phys. Chem. Chem. Phys. **2013**, 15, 159-167.
DOI 10.1039/C2CP42750H
<https://pubs.rsc.org/en/content/articlelanding/2013/cp/c2cp42750h>
- 279 *Photon harvesting by excimer-forming multichromophores*
Oliver O. Adeyemi, Vladimir L. Malinovskii, Sarah M. Biner, Gion Calzaferri, Robert Häner
Chem. Commun. **2012**, 48, 9589-9591; DOI: 10.1039/C2CC34183B
<https://pubs.rsc.org/en/content/articlelanding/2012/cc/c2cc34183b>
- 278 *Orientation and Order of Xanthene Dyes in the One-Dimensional Channels of Zeolite L: Bridging the Gap between Experimental Data and Molecular Behavior.*
Ettore Fois, Gloria Tabacchi, Gion Calzaferri
J. Phy. Chem. C **2012**, 116, 16748-16799; [dx.doi.org/10.1021/jp304962w](https://doi.org/10.1021/jp304962w)
<https://pubs.acs.org/doi/10.1021/jp304962w>
- 277 *Nanochannels: Hosts for the Supramolecular Organization of Molecules and Complexes*
Gion Calzaferri
Langmuir **2012**, 28, 6216 – 6231; [dx.doi.org/10.1021/la3000872](https://doi.org/10.1021/la3000872)
Langmuir **2012**, 28, Cover page
<https://pubs.acs.org/doi/10.1021/la3000872>
- 276 *Synthesis of Subphthalocyanine-Based Stopcock for Zeolite L*
Mine Ince, Christian G. Claessens, Dominik Brühwiler, Gion Calzaferri, Tomás Torres
Macroheterocycles **2011**, 4, 246-249. DOI: 10.6060/mhc2011.4.03
<https://macroheterocycles.isuct.ru/en/annot/t04n04/245>
- 275 *ZeoFRET® Nanochannel-Materials for Solar Energy Conversion Devices*
Dominik Brühwiler, Andreas Kunzmann, Gion Calzaferri
EPA Newsletter, June **2011**, 81, 25 - 27; ISSN 1011-4246
<http://boris.unibe.ch/id/eprint/9930>
- 274 *Self-assembling zeolite crystals into uniformly oriented layers*
Pengpeng Cao, Huanrong Li, Pengmei Zhang, Gion Calzaferri
Langmuir **2011**, 27, 12614-12620. [dx.doi.org/10.1021/la202112r](https://doi.org/10.1021/la202112r)
<https://pubs.acs.org/doi/10.1021/la202112r>

- 273 *Manipulation of energy transfer processes within the channels of L-zeolite*
Gion Calzaferri, André Devaux
SUPRAMOLECULAR PHOTOCHEMISTRY; Controlling Photochemical Processes. Eds. V. Ramamurthy and Y. Inoue, John Wiley & Sons, New Jersey, US, **2011**, ISBN: ISBN 978-0-470-23053-4, *Chapter 9*, p. 285-387.
- 272 *Förster Resonance Energy Transfer in Quantum Dot–Dye Loaded Zeolite L Nano-assemblies*
Srinidhi Ramachandra, Zoran D. Popović, Klaus C. Schuermann, Fabio Cucinotta, Gion Calzaferri, Luisa De Cola
Small **2011**, *10*, 1488-1494; DOI: 10.1002/smll.201100010
<https://onlinelibrary.wiley.com/doi/10.1002/smll.201100010>
- 271 *Chemie und Energie*
Gion Calzaferri
VSH Bulletin, April **2011**, *37*, 30-33; ISSN 1663-9898
- 270 *Interactions of Perylene Bisimide in the One Dimensional Channels of Zeolite L*
Michael Busby, André Devaux, Christian Blum, Vinod Subramaniam, Gion Calzaferri, Luisa De Cola
J. Phys. Chem. C **2011**, *115*, 5974-5988; DOI: dx.doi.org/10.1021/jp1108625
<https://pubs.acs.org/doi/pdf/10.1021/jp1108625>
- 269 *Designing Dye-Nanochannel Antenna Hybrid Materials for Light Harvesting, Transport and Trapping*
Gion Calzaferri, Rachel Méallet-Renault, Dominik Brühwiler, Robert Pansu, Igor Dolamic, Thomas Dienel, Pauline Adler, Huanrong Li, Andreas Kunzmann
ChemPhysChem **2011**, *12*, 580-594; DOI: 10.1002/cphc.201000947
<https://doi.org/10.1002/cphc.201000947>
- 268 *On the significance of the anchoring group in the design of antenna materials based on phthalocyanine stopcocks and zeolite L*
Ismael López-Duarte, Le-Quyen Dieu, Igor Dolamic, M. Victoria Martínez-Díaz, Tomás Torres, Gion Calzaferri, Dominik Brühwiler
Chemistry a European Journal **2011**, *17*, 1855-1862; DOI: 10.1002/chem.201002210
<https://doi.org/10.1002/chem.201002210>
- 267 *Surprising Properties of a Furo-Furanone*
Gion Calzaferri, Dominik Brühwiler, Tao Meng, Le-Quyen Dieu, Vladimir L. Malinovskii, Robert Häner
Chemistry a European Journal **2010**, *16*, 11289 – 11299;
DOI: 10.1002/chem.201000728
<https://doi.org/10.1002/chem.201000728>
- 266 *Interactions, behavior and stability of Fluorenone inside Zeolite Nanochannels*
Ettore Fois, Gloria Tabacchi, Gion Calzaferri
J. Phys. Chem. C **2010**, *114*, 10572 – 10579; DOI: 10.1021/jp101635p
Cover page
<https://doi.org/10.1021/jp101635p>
- 265 *Toward white light emission through efficient two step energy transfer in hybrid nanofibers*
Varun Vohra, Gion Calzaferri, Silvia Destri, Mariacecilia Pasini, William Porzio, Chiara Botta
ACS Nano, **2010**, *4*, 1409 – 1416; DOI: 10.1021/nn9017922
<https://doi.org/10.1021/nn9017922>

- 264 *Nanochannel Materials for Artificial Photosynthesis*
Gion Calzaferri, Andre Devaux
On Catalysis, Edition Ostwald, Volume 2, VWB Berlin, Eds. W. Reschetilowski, W. Hönlé, **2010**, 103 – 126. ISBN 978-3-86135-232-7
- 263 *Weak forces at work in dye-loaded zeolite materials: spectroscopic investigation on cation-sulfur interactions*
Giorgio Macchi, Chiara Botta, Gion Calzaferri, Michele Catti, Jérôme Cornil, Johannes Gierschner, Francesco Meinardi, Riccardo Tubino
PCCP **2010**, *12*, 2599 – 2605; DOI: 10.1039/b919880f
- 262 *Self-Assembled nanofibers of fluorescent zeolite L crystals and conjugated polymer*
Varun Vohra, Alberto Bolognesi, Gion Calzaferri, Chiara Botta
Langmuir **2010**, *26*, 1590 – 1593; DOI: 10.1021/la904450e
<https://doi.org/10.1021/la904450e>
- 261 *Komposite mit Nanokanälen als künstliche Lichtantennen*
Gion Calzaferri, André Devaux, Michael Tausch
Praxis der Naturwissenschaften, Chemie in der Schule (PdN-ChiS), 2/59, **2010**, 29 – 31
and 51.
http://www.aulis.de/files/materials/downloads_links/ChiS_2010_Register_72.pdf
- 260 *Orienting zeolite L microcrystals with a functional linker*
Yu Wang, Huanrong Li, Yu Feng, Hongjie Zhang, Gion Calzaferri, Tiezhen Ren
Angew. Chem. Int. Ed. **2010**, *49*, 1434 – 1438; DOI: 10.1002/anie.200905354
<https://doi.org/10.1002/anie.200905354>
- 259 *Artificial Photosynthesis*
Gion Calzaferri
Topics in Catalysis **2010**, *53*, 130 – 140; DOI 10.1007/s11244-009-9424-9
<https://doi.org/10.1007/s11244-009-9424-9>
- 258 *Multilevel organization in hybrid thin films for opto electronic applications*
Varun Vohra, Alberto Bolognesi, Gion Calzaferri, Chiara Botta
Langmuir **2009**, *25*, 12019 – 12023.
<https://doi.org/10.1021/la9032089>
- 257 *Manipulation of energy transfer processes in nanochannels*
André Devaux, Gion Calzaferri
International Journal of Photoenergy, Volume **2009**, Article ID 741834, 9 pages
doi:10.1155/2009/741834
- 256 *Nanochannels for supramolecular organization of luminescent guests*
Dominik Brühwiler, Gion Calzaferri, Tomas Torres, Jan Hinrich Ramm, Nando Gartmann, Le-Quyenh Dieu, Ismael López-Duarte, M. Victoria Martínez-Díaz
J. Mater. Chem. **2009**, *19*, 8040 – 8067.
<https://doi.org/10.1039/B907308F>
- 255 *Thermally Stable Luminescent Lanthanide Complexes in Zeolite L*
Yige Wang, Huanrong Li, Lijian Gu, Quanying Gan, Yanni Li, Gion Calzaferri
Microporous Mesoporous Materials, **2009**, *121*, 1 – 6.
<https://doi.org/10.1016/j.micromeso.2008.12.028>
- 254 *Energy Transfer in Fluorescent Nanofibers Embedding Dye-Loaded Zeolites L Crystals*
Varun Vohra, André Devaux, Le-Quyenh Dieu, Guido Scavia, Marinella Catellani, Gion Calzaferri, Chiara Botta
Adv. Mater. **2009**, *21*, 1146 – 1150.
<https://doi.org/10.1002/adma.200801693>

Cover page

- 253 *Energy transfer in Nanochannels*
Gion Calzaferri
Il Nuovo Cimento, Vol. 123 B, 2008, 1337 – 1367.
- 252 *Fabrication of oriented zeolite L monolayer via covalent molecular linkers*
Yige Wang, Huanrong Li, Binyuan Liu, Quanying Gan, Qinglin Dong, Gion Calzaferri, Zheng Sun
J. Solid State Chemistry 2008, 181, 2469 – 2472.
<https://doi.org/10.1016/j.jssc.2008.06.023>
- 251 *Dye modified nanochannel materials for photoelectronic and optical devices*
Gion Calzaferri, Huanrong Li, Dominik Brühwiler
Chem. Eur. J. 2008, 14, 7442 – 7449.
<https://doi.org/10.1002/chem.200800811>
- 250 *A Layered Red-Emitting Chromophoric Organic Salt*
Chenyi Yi, Carmen Blum, Shi-Xia Liu, Ying-Fen Ran, Gabriela Frei, Antonia Neels, Helen Stoeckli-Evans, Gion Calzaferri, Samuel Leutwyler, Silvio Decurtins
Crystal Growth & Design 2008, 8, 3004 – 3009.
<https://doi.org/10.1021/cg800122v>
- 249 *Dye in nanochannels boosts the performance of artificial photonic antenna systems*
Gion Calzaferri
SPIE Newsroom **2008**
DOI: 10.1117/2.1200805.1162
- 248 *Mimicking the Antenna System of Green Plants*
Gion Calzaferri, Katsiaryna Lutkouskaya
Photochem. Photobiol. Sci. 2008, 7, 879 – 910; DOI: 10.1039/b804682b.
Cover page
<https://doi.org/10.1039/B804682B>
- 247 *Time, Space and Spectrally Resolved Studies on J-Aggregate Interactions in Zeolite-L Nanochannels*
Michael Busby, Christian Blum, Marc Tibben, Sandra Fibikar, Gion Calzaferri, Vinod Subramaniam and Luisa De Cola
J. Amer. Chem. Soc. 2008, 130, 10970 – 10976.
<https://doi.org/10.1021/ja801178p>
- 246 *Mimicking the Antenna System of Green Plants*
Gion Calzaferri, Huanrong Li
Proc. SPIE, Vol. **7002**, 700202, **2008**, 1 – 7.
DOI:10.1117/12.787026
<https://doi.org/10.1117/12.787026>
- 245 *Sensitized near infrared emission from lanthanide-exchanged zeolites*
A. Monguzzi, G. Macchi, F. Meinardi, R. Tubino, M. Burger, G. Calzaferri
Appl. Phys. Lett. 2008, 92, 123301-1 – 123301-3.
<https://doi.org/10.1063/1.2902186>
- 244 *Novel phthalocyanine based stopcock for zeolite L*
Le-Quyen Dieu, André Devaux, Ismael López-Duarte, M. Victoria Martínez-Díaz, Dominik Brühwiler, Gion Calzaferri, Tomás Torres
Chem. Commun. 2008, 1187 – 1198.
<https://doi.org/10.1039/B714995F>
- 243 *Convenient synthesis of Zeolite A and ZK 4*
Claudia Leiggenger, Antonio Currao, Gion Calzaferri
Materials Syntheses, A practical Guide, Ed. U. Schubert, N. Hüsing, R. Laine, Springer, Wien, (ISBN 978-3-211-75124-4) **2008**, 21 – 28.
https://doi.org/10.1007/978-3-211-75125-1_2

- 242 *Controlling Size and Morphology of Zeolite L*
Arantzazu Zabala Ruiz, Dominik Brühwiler, Le-Quyenh Dieu, Gion Calzaferri
Materials Syntheses, A practical Guide, Eds. U. Schubert, N. Hüsing, R. Laine,
Springer, Wien, (ISBN 978-3-211-75124-4) **2008**, 9 – 19.
https://doi.org/10.1007/978-3-211-75125-1_1
- 241 *Orthogonally Bi-Functional Fluorescent Zeolite-L Micro-crystals*
Michael Busby, Hannes Kerschbaumer, Gion Calzaferri, Luisa De Cola
Adv. Mater. **2008**, *20*, 1614 – 1618.
<https://doi.org/10.1002/adma.200702354>
- 240 *Selfassembly of Zeolite L Crystals on Biological Self-cleaning Surfaces*
Olivia Bossart, Gion Calzaferri
Micropor. Mesopor. Mater. **2008**, *109*, 392 – 397.
<https://doi.org/10.1016/j.micromeso.2007.05.033>
- 239 *Nanochannel Materials for Quantum Solar Energy Conversion Devices*
Dominik Brühwiler, Le-Quyenh Dieu, Gion Calzaferri
Transformation and Storage of Solar Energy, Special Issue *CHIMIA* **2007**, *61*, 820 – 822.
DOI: [10.2533/chimia.2007.820](https://doi.org/10.2533/chimia.2007.820)
<https://doi.org/10.2533/chimia.2007.820>
- 238 *Editorial: Transformation and Storage of Solar Energy*
Thomas Hannappel, Chrisitan Königstein, Gion Calzaferri
Transformation and Storage of Solar Energy, Special Issue *CHIMIA* **2007**, *61*, 768 – 769.
DOI: [10.2533/chimia.2007.768](https://doi.org/10.2533/chimia.2007.768)
<https://doi.org/10.2533/chimia.2007.768>
- 237 *Fabrication of oriented zeolite L monolayers employing luminescent perylene-
diimide-bridged Si(OEt)₃ precursor as the covalent linker*
Huanrong Li, Yige Wang, Wenjun Zhang, Binyuan Liu, Gion Calzaferri
Chem. Commun. **2007**, 2853 – 2854.
DOI: [10.1039/b702175e](https://doi.org/10.1039/b702175e)
<https://doi.org/10.1039/B702175E>
- 236 *Nanochannels for supramolecular organisation of dyes*
André Devaux, Katsiaryna Lutkouskaya, Gion Calzaferri, Le-Quyenh Dieu, Domi-
nik Brühwiler, Luisa De Cola, and Tomás Torres
Photochemistry in Switzerland, Special Issue *CHIMIA* **2007**, *61*, 626 – 630.
<https://doi.org/10.2533/chimia.2007.626>
- 235 *Assembling micro crystals through cooperative nano scale interactions*
Zoran Popović, Michael Busby, Stefan Huber, Gion Calzaferri, Luisa De Cola
Angew. Chem. Int. Ed. **2007**, *46*, 8898 – 8902.
DOI: [10.1002/anie.200701948](https://doi.org/10.1002/anie.200701948)
<https://doi.org/10.1002/anie.200701948>
- 234 *Proton activity inside the channels of zeolite L*
Rodrigo Q. Albuquerque, Gion Calzaferri
Chem. Eur. J. **2007**, *13*, 8939 – 8952.
DOI: [10.1002/chem.200700569](https://doi.org/10.1002/chem.200700569)
<https://doi.org/10.1002/chem.200700569>
- Cover Page**
- 233 *Zeolite A and zeolite L monolayers modified with AgCl as photocatalyst for water
oxidation to O₂*
V. R. Reddy, A. Currao, G. Calzaferri
J. Mater. Chem. **2007**, *17*, 3603 – 3609.
DOI: [10.1039/b705219g](https://doi.org/10.1039/b705219g)
<https://doi.org/10.1039/B705219G>

- 232 *Self-assembling living systems with functional nanomaterials*
Zoran Popovic, Matthias Otter, Gion Calzaferri, Luisa De Cola
Angew. Chem. Int. Ed. **2007**, *46*, 6188 – 6191.
DOI: [10.1002/anie.200701019](https://doi.org/10.1002/anie.200701019)
<https://doi.org/10.1002/anie.200701019>
- 231 *Advanced photon harvesting concepts for low energy gap organic solar cells*
R. Köppe, O. Bossart, G. Calzaferri, N.S. Sariciftci
Solar Energy Materials and Solar Cells **2007**, *91*, 986-995.
<https://doi.org/10.1016/j.solmat.2007.01.008>
- 230 *Transparent Zeolite-Polymer Hybrid Materials with Tunable Properties*
Stéphane Suárez, André Devaux, Jorge Bañuelos, Olivia Bossart, Andreas Kunzmann, Gion Calzaferri
Adv. Func. Mater. **2007**, *17*, 2298 – 2306
DOI: [10.1002/adfm.200600925](https://doi.org/10.1002/adfm.200600925)
<https://doi.org/10.1002/adfm.200600925>
Cover page
- 229 *Fluorescent electrospun nanofibres embedding dye-loaded zeolite crystals*
Ilaria Cucchi, Fabrice Spano, Umberto Giovanella, Marinella Catellani, Alessio Varesano, Gion Calzaferri, Chiara Botta
Small, **2007**, *3*, 305 – 309.
DOI: [10.1002/sml.200600472](https://doi.org/10.1002/sml.200600472)
<https://doi.org/10.1002/sml.200600472>
Cover page
- 228 *Gold and silver metal nanoparticle-modified AgCl photocatalyst for water oxidation to O₂*
Vanga Raja Reddy, Antonio Currao, Gion Calzaferri
J. Phys. Conf. Ser. **2007**, *61*, 960 – 965.
doi:10.1088/1742-6596/61/1/190
<https://iopscience.iop.org/article/10.1088/1742-6596/61/1/190>
- 227 *Optical spectroscopy of inorganic-organic host-guest nanocrystals organized as oriented monolayers*
Stefan Huber, Arantzazu Zabala Ruiz, Huanrong Li, Greta Patrinoiu, Chiara Botta, Gion Calzaferri
Inorg. Chim. Acta **2007**, *360*, 869 – 875.
DOI: [10.1016/j.ica.2006.06.008](https://doi.org/10.1016/j.ica.2006.06.008)
<https://doi.org/10.1016/j.ica.2006.06.008>
- 226 *Hexagonal Network Organization of Dye-loaded Zeolite L Crystals by Surface Tension Driven Auto-assembly*
Sami Yunus, Fabrizio Spano, Greta Patrinoiu, Alberto Bolognesi, Chiara Botta, Dominik Brühwiler, Arantzazu Zabala Ruiz, Gion Calzaferri
Adv. Func. Mater. **2006**, *16*, 2213-2217.
DOI: [10.1002/adfm.200600255](https://doi.org/10.1002/adfm.200600255)
<https://doi.org/10.1002/adfm.200600255>
- 225 *Light-harvesting host-guest antenna materials for solar energy conversion devices*
Stefan Huber, Gion Calzaferri
Proc. of SPIE, Photonics for Solar Energy Systems, Vol. 6197, **2006**, 619708-1 - 5.
DOI: [10.1117/12.661153](https://doi.org/10.1117/12.661153)
<https://doi.org/10.1117/12.661153>

- 224 *Electronic excitation energy transfer from dye-loaded zeolite L monolayers to a semiconductor*
Huanrong Li, André Devaux, Arantzazu Zabala Ruiz, Gion Calzaferri
Proc. of SPIE, Nanophotonics, Vol. 6195, **2006**, 61951G-1 – 5.
DOI: [10.1117/12.661270](https://doi.org/10.1117/12.661270)
<https://doi.org/10.1117/12.661270>
- 223 *Luminescence quenching measurements on zeolite L monolayers*
Rodrigo Albuquerque, Arantzazu Zabala Ruiz, Huanrong Li, Luisa De Cola, Gion Calzaferri
Proc. of SPIE, Photonics for Solar Energy Systems, Vol. 6197, **2006**, 61970B-1 – 5.
DOI: [10.1117/12.661488](https://doi.org/10.1117/12.661488)
<https://doi.org/10.1117/12.661488>
- 222 *Light-harvesting host-guest antenna materials for photonic devices*
Gion Calzaferri, Stefan Huber, André Devaux, Arantzazu Zabala Ruiz, Huanrong Li, Olivia Bossart, Le-Quyenh Dieu
Proc. of SPIE, Org. Optoelectronics and Photonics II, Vol. 6192, **2006**, 619216-1 – 11.
DOI: [10.1117/12.665510](https://doi.org/10.1117/12.665510)
<https://doi.org/10.1117/12.665510>
- 221 *Carboxyester functionalised dye-zeolite L host-guest materials*
Huanrong Li, André Devaux, Zoran Popovic, Luisa De Cola, Gion Calzaferri
Micropor. Mesopor. Mater. **95**, **2006**, 112-117.
DOI: [10.1016/j.micromeso.2006.05.012](https://doi.org/10.1016/j.micromeso.2006.05.012)
<https://doi.org/10.1016/j.micromeso.2006.05.012>
- 220 *Organizing supramolecular functional dye-zeolite crystals*
Arantzazu Zabala Ruiz, Huanrong Li, Gion Calzaferri
Angew. Chem. Int Ed. **2006**, *45*, 5282-5287.
DOI: [10.1002/anie.200504286](https://doi.org/10.1002/anie.200504286)
<https://doi.org/10.1002/anie.200504286>
<https://doi.org/10.2533/000942906777674840>
- 219 *Organisation and Solubilisation of Zeolite L Crystals*
Olivia Bossart and Gion Calzaferri
Chimia **2006**, *60*, 179-181.
DOI: [10.2533/000942906777674840](https://doi.org/10.2533/000942906777674840)
<https://doi.org/10.2533/000942906777674840>
- 218 *Luminescence quenching by O₂ of a Ru²⁺ complex attached to zeolite L*
Rodrigo Q. Albuquerque, Zoran Popovic, Luisa De Cola, Gion Calzaferri
ChemPhysChem **2006**, *07*, 1050-1053.
DOI: [10.1002/cphc.200600020](https://doi.org/10.1002/cphc.200600020)
<https://doi.org/10.1002/cphc.200600020>
- 217 *Transfer of electronic excitation energy between randomly mixed dye molecules in the channels of zeolite L*
Katsiaryna Lutkouskaya, Gion Calzaferri
J. Phys. Chem. B **2006**, *110*, 5633-5638.
DOI: [10.1021/jp056296i](https://doi.org/10.1021/jp056296i)
<https://doi.org/10.1021/jp056296i>
- 216 *Solubilization of Dye-Loaded Zeolite L Nanocrystals*
A. Devaux, Z. Popovic, O. Bossart, L. De Cola, A. Kunzmann, G. Calzaferri
Microp. Mesop. Mater. **2006**, *90*, 69-72.
DOI: [10.1016/j.micromeso.2005.07.025](https://doi.org/10.1016/j.micromeso.2005.07.025)
<https://doi.org/10.1016/j.micromeso.2005.07.025>

- 215 *Light-harvesting host-guest antenna materials for quantum solar energy conversion devices*
Gion Calzaferri, Olivia Bossart, Dominik Brühwiler, Stefan Huber, Claudia Leiggener, Marieke K. van Veen, Arantzazu Zabala Ruiz
Comptes Rendues Chimie **2006**, 9, 214-225.
DOI: [10.1016/j.crci.2005.03.026](https://doi.org/10.1016/j.crci.2005.03.026)
<https://doi.org/10.1016/j.crci.2005.03.026>
- 214 *Energy Collection, Transport, and Trapping by Supramolecular Organization of Dyes in Hexagonal Zeolite Nano Crystals*
Claudia Minkowski, Robert Pansu, Minako Takano, Gion Calzaferri
Adv. Func. Mater **2006**, 16, 273-285.
DOI: [10.1002/adfm.200500284](https://doi.org/10.1002/adfm.200500284)
<https://doi.org/10.1002/adfm.200500284>
- 213 *Light-harvesting host-guest antenna materials for photonic devices*
Gion Calzaferri
Proceedings of the Fourth Conference "Isotopic and Molecular Processes": PIM-**2005** Sept 22-24, p. 147-156.
STUDIA UNIVERSITATIS BABES-BOLYAI, PHYSICA, SPECIAL ISSUE, 2005
Verlag: ICSI Institute for Cryogenics & Isotopic Technologies, 2005.
- 212 *Synthesis and Luminescence Properties of Ag₂S and PbS Clusters in Zeolite A*
Claudia Leiggener and Gion Calzaferri
Chem. Eur. J. **2005**, 11, 7191-7198.
DOI: [10.1002/chem.200500495](https://doi.org/10.1002/chem.200500495)
<https://doi.org/10.1002/chem.200500495>
- 211 *Förster-Type Energy Transfer along a Specified Axis*
Claudia Minkowski and Gion Calzaferri
Angew. Chem.Int. Ed. **2005**, 44, 5325-5329.
DOI: [10.1002/anie.200500431](https://doi.org/10.1002/anie.200500431)
<https://doi.org/10.1002/anie.200500431>
- 210 *Transport of Electronic Excitation Energy in Dye-Loaded Zeolite L*
Claudia Minkowski, Gion Calzaferri
Chimia **2005**, 59, 88-93.
EID: 2-s2.0-17444421944
<https://doi.org/10.2533/000942905777676731>
- 209 *Particle Distribution in a Microporous Material: Experiments with Zeolite A*
Marc Meyer, Claudia Leiggener, Gion Calzaferri
ChemPhysChem **2005**, 6, 1071-1080.
DOI: [10.1002/cphc.200500049](https://doi.org/10.1002/cphc.200500049)
<https://onlinelibrary.wiley.com/doi/abs/10.1002/cphc.200500049>
- 208 *Particle Distribution in a Microporous Material: Theoretical Concept*
Marc Meyer, Antonio Currao, Gion Calzaferri
ChemPhysChem **2005**, 6, 2167-2178.
DOI: [10.1002/cphc.200500126](https://doi.org/10.1002/cphc.200500126)
<https://onlinelibrary.wiley.com/doi/abs/10.1002/cphc.200500126>
- 207 *Synthesis of Zeolite L: Tuning Size and Morphology*
Arantzazu Zabala Ruiz, Dominik Brühwiler, Takayuki Ban, Gion Calzaferri
Monatshefte für Chemie **2005**, 136, 77-89.
DOI: [10.1007/s00706-004-0253-z](https://doi.org/10.1007/s00706-004-0253-z)
<https://link.springer.com/article/10.1007/s00706-004-0253-z>

- 206 *Selective Functionalization of the External Surface of Zeolite L*
Dominik Brühwiler, Gion Calzaferri
Comptes Rendues Chimie **2005**, 8, 391-398.
DOI: [10.1016/j.crci.2004.11.008](https://doi.org/10.1016/j.crci.2004.11.008)
<https://doi.org/10.1016/j.crci.2004.11.008>
- 205 *Principles of monte carlo simulations in physical chemistry: luminescence of organized dye molecules*
Mikalai M. Yatskou, Aleh Kavalenka, Vladimir V. Apanasovich, and Gion Calzaferri
"Modelling and Simulation", Proc. Int. Conf. (27-29 April **2004**, Minsk), Eds. Krasnoproshin V., Aluja J.G., ISBN 985-6107-33-4, **2004**, p. 368-372.
EID: 2-s2.0-24644498013
- 204 *Sequential Functionalization of the Channel Entrances of Zeolite L Crystals*
Stefan Huber, Gion Calzaferri
Angew. Chem. Int Ed. **2004**, 43, 6738-6742.
DOI: [10.1002/anie.200461114](https://doi.org/10.1002/anie.200461114)
<https://doi.org/10.1002/anie.200461114>
- 203 *Water Splitting with Silver Chloride Photoanodes and Amorphous Silicon Solar Cells*
Antonio Currao, Vanga Raja Reddy, Marieke K. van Veen, Ruud E. I. Schropp, Gion Calzaferri
Photochem. Photobiol. Sci., **2004**, 3, 1017-1025.
DOI: [10.1039/b411882k](https://doi.org/10.1039/b411882k)
<https://link.springer.com/article/10.1039/b411882k>
- 202 *Selective modification of the channel entrances of zeolite L with triethoxysilylated coumarin*
Takayuki Ban, Dominik Brühwiler, Gion Calzaferri
J. Phys. Chem. B, **2004**, 108, 16348-16352.
DOI: [10.1021/jp048516i](https://doi.org/10.1021/jp048516i)
<https://doi.org/10.1021/jp048516i>
- 201 *Supramolecular Organization of Dyes and Quantum Dots in Zeolites: Light Harvesting Host-Guest Antenna Systems*
Gion Calzaferri, Claudia Leiggenger, Stefan Huber, Dominik Brühwiler, Arantzazu Zabala Ruiz
Proceedings European Coatings Conference, Smart Coatings III, Berlin, June 7-8, **2004**, 93-109. **European Coatings Conference Smart Coatings III June, 7th – 8th 2004**
- 200 *Injecting Electronic Excitation Energy Into an Artificial Antenna System through a Ru²⁺ Complex*
Olivia Bossart, Luisa De Cola, Steve Welter, and Gion Calzaferri
Chem. Eur. J. **2004**, 10, 5771-5775.
DOI: [10.1002/chem.200400743](https://doi.org/10.1002/chem.200400743)
<https://doi.org/10.1002/chem.200400743>
- 199 *Monolayers of Zeolite A containing Luminescent Silver Sulfide Clusters*
Claudia Leiggenger, Gion Calzaferri
ChemPhysChem. **2004**, 5, 1593-1596.
DOI: [10.1002/cphc.200400355](https://doi.org/10.1002/cphc.200400355)
<https://doi.org/10.1002/cphc.200400355>

- 198 *Gold Sensitized AgCl Photocatalyst for Water Oxidation to O₂*
Antonio Currao, Raja Reddy Vanga, and Gion Calzaferri
ChemPhysChem. **2004**, 5, 720-724.
DOI: [10.1002/cphc.200301211](https://doi.org/10.1002/cphc.200301211)
<https://doi.org/10.1002/cphc.200301211>
- 197 *Electronic and Vibrational Properties of Fluorenone in the Channels of Zeolite L*
André Devaux, Claudia Minkowski, Gion Calzaferri
Chem. Eur. J. **2004**, 10, 2391-2408.
DOI: [10.1002/chem.200305673](https://doi.org/10.1002/chem.200305673)
<https://doi.org/10.1002/chem.200305673>
- 196 *Molecular sieves as host materials for supramolecular organization*
Dominik Brühwiler, Gion Calzaferri
Microporous Mesoporous Mater. **2004**, 72, 1-23.
<https://doi.org/10.1016/j.micromeso.2004.03.027>
- 195 *Energy Transfer from Dye-Zeolite L Antenna Crystals to Bulk Silicon*
Stefan Huber, Gion Calzaferri
ChemPhysChem **2004**, 5, 239-242.
<https://doi.org/10.1002/cphc.200301002>
- 194 *Constructing Dye-Zeolite Photonic Nanodevices*
Huub Maas, Gion Calzaferri
The Spectrum **2003**, Vol 16, Issue 3, 18-24.
ISSN 1044-5536
<http://www.bgsu.edu/content/dam/BGSU/college-of-arts-and-sciences/photochemical-sciences/documents/fall-2003-spectrum.pdf>
- 193 *Gold loaded Zeolite A*
Ken'ichi Kuge, Gion Calzaferri
Microp. Mesop. Mater. **2003**, 65, 15-20.
<https://doi.org/10.1016/j.micromeso.2003.08.011>
- 192 *Characterization of mesoporous materials by vibrational spectroscopy techniques*
E. Geidel, H. Lechert, J. Döbler, H. Jobic, G. Calzaferri, F. Bauer
Microp. Mesop. Mater. **2003**, 65, 31-42.
[https://doi.org/10.1016/S1387-1811\(03\)00505-5](https://doi.org/10.1016/S1387-1811(03)00505-5)
- 191 *Phenoxazine Dyes in Zeolite L, Synthesis and Properties*
Huub Maas, Abderrahim Khatyr, and Gion Calzaferri
Microp. Mesop. Mater. **2003**, 65, 233-242.
<https://doi.org/10.1016/j.micromeso.2003.08.014>
- 190 *Luminescence Properties of Ag₂S and Ag₄S₂ in Zeolite A*
Claudia Leiggener, Dominik Brühwiler, and Gion Calzaferri
J. Mater. Chem. **2003**, 13, 1969-1977.
DOI: [10.1039/b303937b](https://doi.org/10.1039/b303937b)
<https://doi.org/10.1039/B303937B>
- 189 *Introduction to basic terms of band structures*
Marc Meyer, Stephan Glaus, Gion Calzaferri
J. Chem. Education **2003**, 80, 1220
DOI: [10.1021/ed080p1221](https://doi.org/10.1021/ed080p1221)
<https://pubs.acs.org/doi/10.1021/ed080p1221>
The publication consist of a Mathcad program (60 pages) and instructions. JCE

- 188 *Photon-Harvesting Host-Guest Antenna Materials*
Gion Calzaferri, Stefan Huber, Huub Maas, Claudia Minkowski
Angew. Chem. **2003**, *115*, 3860-3888.
Angew. Chem. Int. Ed. **2003**, *42*, 3732-3758.
DOI: [10.1002/anie.200300570](https://doi.org/10.1002/anie.200300570)
<https://doi.org/10.1002/anie.200300570>
- 187 *The Band Structures of the Silver Halides AgF, AgCl, and AgBr: A Comparative Study*
Stefan Glaus, Gion Calzaferri
Photochem. Photobiol. Sci. **2003**, *2*, 398-401.
DOI: [10.1039/b211678b](https://doi.org/10.1039/b211678b)
<https://doi.org/10.1039/B211678B>
- 186 *Electronic Excitation Energy Migration in a Photonic Dye-Zeolite Antenna*
Mikali Yatskou, Michel Pfenniger, Marc Meyer, Stefan Huber, Gion Calzaferri
ChemPhysChem, **2003**, *4*, 567-587.
DOI: [10.1002/cphc.200300567](https://doi.org/10.1002/cphc.200300567)
<https://doi.org/10.1002/cphc.200300567>
Coverpage
- 185 *Excitation Energy Migration in a Photonic Dye-Zeolite Antenna: Computational Techniques*
Marc Meyer, Mikali Yatskou, Michel Pfenniger, Stefan Huber, Gion Calzaferri, Anatoli Digris, Victor Skakun, Eugene Barsukov, Vladimir V. Apanasovich
J. Comput. Methods in Sci. and Eng. (JCMSE) **2003**, *3*, 201-208.
<https://doi.org/10.3233/JCM-2003-3303>
- 184 *Organic-Inorganic Composites as Photonic Antenna*
Huub Maas, Stefan Huber, Abderrahim Khatyr, Michel Pfenniger, Marc Meyer, and Gion Calzaferri
In: *Molecular and Supramolecular Photochemistry, Photochemistry of Organic Molecules in Isotropic and Anisotropic Media Volume 9/10*, Eds. V. Ramamurthy and K. Schanze,
Macel Dekker, INC. NY **2003**, 309-351.
ISBN: [978-0-8247-0883-2](https://books.google.ch/books?isbn=978-0-8247-0883-2)
- 183 *Electronic Structure of Zeolite Stabilized Ions and Quantum Dots*
Gion Calzaferri, Stephan Glaus, Claudia Leiggenger, Ken'ichi Kuge
Host-Guest Systems Based on Nanoporous Crystals, Eds. F. Laeri, F. Schüth, U. Simon, and M. Wark, Wiley-VCH, **2003**,
ISBN 3-527-30501-7, p. 424-450.
<https://books.google.ch/books?isbn=3527605223>
- 182 *The electronic structure of Cu⁺, Ag⁺, and Au⁺ zeolites*
Gion Calzaferri, Claudia Leiggenger, Stephan Glaus, David Schürch, Ken'ichi Kuge
Chem. Soc. Rev. **2003**, *32*, 29-37.
DOI: [10.1039/b108571a](https://doi.org/10.1039/b108571a)
<https://doi.org/10.1039/B108571A>
Cover page
- 181 *The Silver Chloride Photoanode in Photoelectrochemical Water Splitting*
David Schürch, Antonio Currao, Shaibal Sarkar, Gary Hodes, Gion Calzaferri
J. Phys. Chem. B, **2002**, *109*, 12764-12775.
<https://pubs.acs.org/doi/10.1021/jp0265081>

- 180 *Encapsulated Lanthanides as Luminescent Materials*
Huub Maas, Antonio Currao, Gion Calzaferri
Angew. Chemie, Int. Ed. **41**, **2002**, 2495-2497.
Angew. Chem. **114**, **2002**, 2607-2608.
[https://doi.org/10.1002/1521-3773\(20020715\)41:14<2495::AID-ANIE2495>3.0.CO;2-G](https://doi.org/10.1002/1521-3773(20020715)41:14<2495::AID-ANIE2495>3.0.CO;2-G)
- 179 *Chemical solution deposition of silver halides*
Gary Hodes, Gion Calzaferri
Advanced Functional Materials, **12**, **2002**, 501-505.
[https://doi.org/10.1002/1616-3028\(20020805\)12:8<501::AID-ADFM501>3.0.CO;2-J](https://doi.org/10.1002/1616-3028(20020805)12:8<501::AID-ADFM501>3.0.CO;2-J)
- 178 *Synthesis of new molecules containing head, spacer and label*
Abderrahim Khatyr, Huub Maas, Gion Calzaferri
J. Org. Chem. **67**, **2002**, 6705-6710.
<https://doi.org/10.1021/jo025691r>
- 177 *Trapping Energy from and Injecting Energy into Dye-Zeolite Nanoantennae*
Huub Maas and Gion Calzaferri
Angew. Chem. Int. Edition, **41**, **2002**, 2284-2288.
Angew. Chem. **114**, **2002**, 2389-2392.
[https://doi.org/10.1002/1521-3773\(20020703\)41:13<2284::AID-ANIE2284>3.0.CO;2-5](https://doi.org/10.1002/1521-3773(20020703)41:13<2284::AID-ANIE2284>3.0.CO;2-5)
- 176 *Electronic Properties of Silver-Silver Chloride Cluster Interfaces*
Stephan Glaus, Gion Calzaferri, Roald Hoffmann
Chemistry - A European Journal, **2002**, **8**, 1785 – 1794.
[https://doi.org/10.1002/1521-3765\(20020415\)8:8<1785::AID-CHEM1785>3.0.CO;2-X](https://doi.org/10.1002/1521-3765(20020415)8:8<1785::AID-CHEM1785>3.0.CO;2-X)
- 175 *Luminescent Silver Sulfide Clusters*
Dominik Brühwiler, Claudia Leiggner, Stephan Glaus, Gion Calzaferri
J. Phys. Chem. B, **2002**, **106**, 3770 - 3777.
<https://doi.org/10.1021/jp012453b>
- 174 *Supramolecularly organized luminescent dye molecules in the channels of zeolite L*
Gion Calzaferri, Huub Maas, Marc Pauchard, Michel Pfenniger, Silke Megelski, André Devaux
Advances in Photochemistry, Editors D.C. Neckers, G. von Büнау, W.S. Jenks, Vol 27, **2002**, 1-50.
ISBN: 978-0-471-21451-9
- 173 *Photonic antenna system for light harvesting, transport and trapping*
Gion Calzaferri, Marc Pauchard, Huub Maas, Stefan Huber, Abderrahim Khatyr, Tjeerd Schaafsma
J. Mater. Chem. **2002**, **12**, 1-13.
<https://doi.org/10.1039/B106141K>
- 172 **Cover page**
The Formation of Mixed Layers Derived from Functional Silicon Oxide Clusters on Gold
Kenneth T. Nicholson, K. Z. Zhang, Mark M. Banaszak Holl, F. Read McFeely, Gion Calzaferri, and Udo C. Pernisz
Langmuir, **2001**, **17**, 7879-7885.
<https://doi.org/10.1021/la015522m>

- 171 *Organic-Inorganic Composites as Photonic Antenna*
Gion Calzaferri
CHIMIA, **2001**, *55*, 1009-1013.
<https://doi.org/10.2533/chimia.2001.1009>
- 170 *Dye molecules in zeolite L nano crystals for efficient light harvesting*
Gion Calzaferri
Advances in Condensed Matter and Materials Research, Volume I, Ed. F. Gerard, NOVA Science, NY, USA (2001) Chapter 5, 201-217.
ISBN: 1-56072-925-2
- 169 *Dye Molecules in the Nanochannels of Zeolite L for Light Harvesting, Transport and Trapping*
Gion Calzaferri
Chimie nouvelle, **74**, **2001**, 3278-3281.
- 168 *Time and Space Resolved Luminescence of a new Dye-Zeolite Photonic Antenna*
Marc Pauchard, Stefan Huber, Rachel Méallet-Renault, Huub Maas, Robert Pansu, Gion Calzaferri
Angew. Chem., Int. Ed. **2001**, *40*, 2839-2842.
Angewandte Chemie **2001**, *113*, 2921-2924.
[https://doi.org/10.1002/1521-3773\(20010803\)40:15<2839::AID-ANIE2839>3.0.CO;2-O](https://doi.org/10.1002/1521-3773(20010803)40:15<2839::AID-ANIE2839>3.0.CO;2-O)
- 167 *Silver Ions and Quantum-Sized Silver Sulfide Clusters in Zeolite A*
Dominik Brühwiler, Claudia Leiggner, and Gion Calzaferri
studies in surface science and catalysis 135, ZEOLITES AND MESOPOROUS MATERIALS AT THE DAWN OF THE 21st CENTURY
Proc. of the 13th International Zeolite Conference, Montpellier, France, 8-13 July, **2001**
Editors: A. Galarneau, F. Di Renzo, F. Fajula, J. Védrine
Elsevier electronic form (6 pages)
ISBN: 978-0-444-50238-4
- 166 *Tuning the size and shape of zeolite L based inorganic/organic host/guest composites for optical antenna systems*
Silke Megelski and Gion Calzaferri
Adv. Funct. Mater. **2001**, *11*, 277-286.
[https://doi.org/10.1002/1616-3028\(200108\)11:4<277::AID-ADFM277>3.0.CO;2-2](https://doi.org/10.1002/1616-3028(200108)11:4<277::AID-ADFM277>3.0.CO;2-2)
- 165 *Quantum-Sized Silver, Silver Chloride and Silver Sulfide Clusters*
Gion Calzaferri, Dominik Brühwiler, Stephan Glaus, David Schürch, Antonio Currao and Claudia Leiggner
J. Imag. Sci. and Technology, **45**, **2001**, 331-339.
<https://doi.org/10.2352/J.ImagingSci.Technol.2001.45.4.art00004>
- 164 *Orientation of Fluorescent Dyes in the Nano Channels of Zeolite L*
Silke Megelski, Andreas Lieb, Marc Pauchard, Andreas Drechsler, Stephan Glaus, Christina Debus, Alfred J. Meixner, Gion Calzaferri
J. Phys. Chem. B **105**, **2001**, 25-35.
<https://doi.org/10.1021/jp002582c>
- 163 *Quantum-Sized Silver, Silver Chloride and Silver Sulfide Clusters*
Gion Calzaferri, Dominik Brühwiler, Stephan Glaus, David Schürch, Antonio Currao
2000 Intern. Symp. on Silverhalide Technology, Sept. 11-14, 2000, Hotel Mont Gabriel, Quebec (IS&T and SPSTJ) *AgX-2000, Proceedings (2000)* 59 – 62.

- 162 *Intrazeolite Diffusion Kinetics of Dye Molecules in the Nano Channels of Zeolite L monitored by Energy Transfer*
Michel Pfenniger and Gion Calzaferri
ChemPhysChem. **2000**, *1*, 211-216.
[doi.org/10.1002/1439-7641\(20001215\)1:4<211::AID-CPHC211>3.0.CO;2-I](https://doi.org/10.1002/1439-7641(20001215)1:4<211::AID-CPHC211>3.0.CO;2-I)
- 161 *Dye-Loaded Zeolite L Sandwiches as Artificial Antenna Systems for Light Transport*
Marc Pauchard, André Devaux and Gion Calzaferri
Chemistry, a European Journal **2000**, *6*, 3456-3470.
[https://doi.org/10.1002/1521-3765\(20000915\)6:18<3456::AID-CHEM3456>3.0.CO;2-5](https://doi.org/10.1002/1521-3765(20000915)6:18<3456::AID-CHEM3456>3.0.CO;2-5)
- 160 *Colours of Ag⁺-Exchanged Zeolite A*
Roland Seifert, Ruedi Rytz and Gion Calzaferri
J. Phys. Chem. A **2000**, *104*, 7473-7483.
<https://doi.org/10.1021/jp000905z>
- 159 *Playing with Dye Molecules at the Inner and Outer Surface of Zeolite L*
Gion Calzaferri, Dominik Brühwiler, Silke Megelski, Michel Pfenniger, Marc Pauchard, Brian Hennessy, Huub Maas, André Devaux and Urs Graf
Solid State Sciences **2000**, *2*, 421 – 447.
[https://doi.org/10.1016/S1293-2558\(00\)00129-1](https://doi.org/10.1016/S1293-2558(00)00129-1)
- 158 *Dye molecules in zeolite L nano crystals for efficient light harvesting*
Gion Calzaferri
in *Photofunctional Zeolites Synthesis, Characterization, Photocatalytic Reactions, Light Harvesting*
Nova Science Publ. NY, Ed. M. Anpo (**2000**) 205-230.
ISBN: 1-56072-801-9
- 157 *Oxidationszahlen in Kolenstoffverbindungen*
Gion Calzaferri
Chemie in Unserer Zeit **33** (1999) 228-229.
<https://doi.org/10.1002/ciuz.19990330408>
- 156 *Silver Chloride Clusters and Surface States*
Stephan Glaus and Gion Calzaferri
J. Phys. Chem. B **103** (1999) 5622-5630.
<https://doi.org/10.1021/jp990701m>
- 155 *Quantum-Sized Silver Sulfide Clusters in Zeolite A*
Dominik Brühwiler, Roland Seifert, and Gion Calzaferri
J. Phys. Chem. B **103** (1999) 6397-6399.
DOI: 10.1021/jp990498v
<https://doi.org/10.1021/jp990498v>
- 154 *Characterization of Methylviologene in the Channels of Zeolite L*
Brian Hennessy, Silke Megelski, Claudia Marcolli, Valery Shklover, Christian Bärlocher, and Gion Calzaferri
J. Phys. Chem. B **103** (1999) 3340-3351.
<https://doi.org/10.1021/jp984573y>
- 153 *Monosubstitued Octasilasesquioxanes*
Claudia Marcolli and Gion Calzaferri
Applied Organometallic Chemistry **13** (1999) 213-226.
[https://doi.org/10.1002/\(SICI\)1099-0739\(199904\)13:4<213::AID-AOC841>3.0.CO;2-G](https://doi.org/10.1002/(SICI)1099-0739(199904)13:4<213::AID-AOC841>3.0.CO;2-G)

- 152 *Fast Energy Migration in Pyronine-Loaded Zeolite L Microcrystals*
Niklaus Gfeller, Silke Megelski and Gion Calzaferri
J. Phys. Chem. B **103** (1999) 1250-1257.
<https://doi.org/10.1021/jp984056f>
- 151 *Photocatalytic Oxidation of Water to O₂ on AgCl-coated Electrodes*
Martin Lanz, David Schürch and Gion Calzaferri
J. Photochem. Photobiol. A: Chemistry, **120** (1999) 105-117.
[https://doi.org/10.1016/S1010-6030\(98\)00434-1](https://doi.org/10.1016/S1010-6030(98)00434-1)
- 150 *Oxidation Numbers*
Gion Calzaferri
J. Chem. Education **76** (1999) 362-364.
<https://doi.org/10.1021/ed076p362>
- 149 *Particle-Distribution in a Microporous Material*
Andreas Kunzmann, Roland Seifert and Gion Calzaferri
J. Phys. Chem. B **103** (1999) 18-26.
<https://doi.org/10.1021/jp9827532>
- 148 *Resorufin in the Channels of Zeolite L*
Dominik Brühwiler, Niklaus Gfeller and Gion Calzaferri
J. Phys. Chem. B **102** (1998) 2923-2929.
<https://doi.org/10.1021/jp980019c>
- 147 *Zeolite Microcrystals as Hosts for Supramolecular Organization of Dye Molecules*
Gion Calzaferri *CHIMIA* **52** (1998) 525-532.
<https://doi.org/10.2533/chimia.1998.525>
- 146 *The Yellow Colour of Silver-Containing Zeolite A*
Roland Seifert, Andreas Kunzmann and Gion Calzaferri
Angew. Chemie **110** (1998) 1603-1606.
[doi.org/10.1002/\(SICI\)1521-3773\(19980619\)37:11<1521::AID-ANIE1521>3.0.CO;2-V](https://doi.org/10.1002/(SICI)1521-3773(19980619)37:11<1521::AID-ANIE1521>3.0.CO;2-V)
- 145 *Transfer of electronic excitation energy between dye molecules in the channels of zeolite L*
Niklaus Gfeller, Silke Megelski and Gion Calzaferri
J. Phys. Chem. B. **102** (1998) 2433-2436.
<https://doi.org/10.1021/jp980078q>
- 144 *Sorption properties of Mo(CO)₆ on thin Y-zeolite layers*
Bernd R. Müller and Gion Calzaferri
Microporous and Mesoporous Materials, **21** (1998) 59-66.
[https://doi.org/10.1016/S1387-1811\(97\)00048-6](https://doi.org/10.1016/S1387-1811(97)00048-6)
- 143 *Artificial antenna systems*
Gion Calzaferri
Proc. Ind. Acad. Sci. (Chem. Sci.), **109** (1997) 429-446.
<https://doi.org/10.1007/BF02869205>
- 142 *At the time he made the first photographs on paper:
Did Henry Fox Talbot oxidize water to oxygen with sunlight?*
Gion Calzaferri
Catalysis Today, **39** (1997) 145-157.
[https://doi.org/10.1016/S0920-5861\(97\)82240-7](https://doi.org/10.1016/S0920-5861(97)82240-7)
- 141 *Electronic Transition Oscillator Strengths in Solids: An Extended Hückel Tight-Binding Approach*
Ruedi Rytz and Gion Calzaferri
J. Phys. Chem. B, **101** (1997) 5664-5674.
<https://doi.org/10.1021/jp9709215>

- 140 *Vibrational Structure of Monosubstituted Octahydrosilasesquioxanes*
Claudia Marcolli and Gion Calzaferri
J. Phys. Chem. B **101** (1997) 4925-4933.
<https://doi.org/10.1021/jp9707596>
- 139 *Photocatalytic oxidation of water to O₂ on AgCl-coated electrodes*
Martin Lanz and Gion Calzaferri
J. Photochem. Photobiol. A: Chemistry, **109** (1997) 87-89.
[https://doi.org/10.1016/S1010-6030\(97\)00127-5](https://doi.org/10.1016/S1010-6030(97)00127-5)
- 138 *Photochemical Water Oxidation to Oxygen at the Solid/Gas Interface of AgCl on Zeolite A*
Franz Saladin, Ivo Kamber, Klaus Pfanner and Gion Calzaferri
J. Photochem. Photobiol. A: Chemistry, **109** (1997) 47-52.
[https://doi.org/10.1016/S1010-6030\(97\)00103-2](https://doi.org/10.1016/S1010-6030(97)00103-2)
- 137 *In situ attenuated total reflection FTIR investigations of thin Water Films in the Silanization on ZnSe and Si*
Roman Imhof, Xianyue Xie and Gion Calzaferri
Spectrochimica Acta Part A **53** (1997) 981-989.
[https://doi.org/10.1016/S1386-1425\(97\)00026-7](https://doi.org/10.1016/S1386-1425(97)00026-7)
- 136 *Energy Migration in Dye-Loaded Hexagonal Microporous Crystals*
Niklaus Gfeller and Gion Calzaferri
J. Phys. Chem. **101** (1997) 1396-1408.
<https://doi.org/10.1021/jp9627761>
- 135 *Vibration of H₈Si₈O₁₂, D₈Si₈O₁₂ and H₁₀Si₁₀O₁₅ as determined by INS, IR and Raman Experiments*
Claudia Marcolli, Philippe Lainé, René Bühler, Gion Calzaferri and John Tomkinson
J. Phys. Chem. B, **101** (1997) 1171-1179.
<https://doi.org/10.1021/jp962742d>
- 134 *Convenient Preparation of Close-Packed Monograin-Layers of Pure Zeolite A Microcrystals*
Philippe Lainé, Roland Seifert, Rudolf Giovanoli, Gion Calzaferri
New Journal of Chemistry, **21** (1997) 453-460.
www.scopus.com/inward/record.url?eid=2-s2.0-0000984611&partnerID=MN8TOARS
- 133 *Vibrations of Monosubstituted Octasilasesquioxanes*
Claudia Marcolli, Roman Imhof and Gion Calzaferri
Microchim. Acta, (1997) Suppl. **14**, 493-496.
https://doi.org/10.1007/978-3-7091-6840-0_119
- 132 *Mass Spectra of Octaspherosiloxanes*
Beat Aebi, Gion Calzaferri, Daniel Herren, Roman Imhof, Urs P. Schlunegger
Rapid Communications in Mass Spectrometry, **10** (1996) 1607-1614.
[https://doi.org/10.1002/\(SICI\)1097-0231\(199610\)10:13<1607::AID-RCM688>3.0.CO;2-7](https://doi.org/10.1002/(SICI)1097-0231(199610)10:13<1607::AID-RCM688>3.0.CO;2-7)
- 131 *The Band Structure of Diamond*
Gion Calzaferri and Ruedi Rytz
J. Phys. Chem. **100** (1996) 11122-11124.
<https://doi.org/10.1021/jp960840t>
- 130 *The Monophenylhydrosilasesquioxanes C₆H₅(H_{n-1}Si_nO_{1.5n}) n=8 and 10*
Gion Calzaferri, Claudia Marcolli, Roman Imhof, Karl W. Törnroos
Dalton Transactions (1996) 3313-3322.
<https://doi.org/10.1039/DT9960003313>

- 129 *Limits of the In Situ Synthesis of Tris(2,2'-bipyridine)Ruthenium(II) in the Super-cages of Zeolite Y*
Philippe Lainé, Martin Lanz and Gion Calzaferri
Inorganic Chemistry 35 (1996) 3514-3518.
<https://doi.org/10.1021/ic9600339>
- 128 *Thin Mo(CO)₆-Y layers: Preparation and in situ transmission FTIR spectroscopy*
Bernd Müller and Gion Calzaferri
Faraday Transaction 92 (1996) 1633-1637.
<https://doi.org/10.1039/FT9969201633>
- 127 *Photochemical oxidation of water with thin AgCl layers*
Klaus Pfanner, Niklaus Gfeller and Gion Calzaferri
J. Photochem. Photobiol. A: Chemistry 95 (1996) 175-186.
[https://doi.org/10.1016/1010-6030\(95\)04244-X](https://doi.org/10.1016/1010-6030(95)04244-X)
- 126 *Ring-Opening Vibrations of Spherosiloxanes*
Peter Bornhauser and Gion Calzaferri
J. Phys. Chem. 100 (1996) 2035-2044.
<https://doi.org/10.1021/jp952198t>
- 125 *In situ ATR-FTIR investigations of H₂O, HSiCl₃, and Co₂(CO)₈ on ZnSe in the range of 4000-600 cm⁻¹*
Gion Calzaferri and Roman Imhof
Spectrochimica Acta, Part A 52 (1996) 23-29.
[https://doi.org/10.1016/0584-8539\(95\)01533-7](https://doi.org/10.1016/0584-8539(95)01533-7)
- 124 *Octasilasesquioxanes*
Gion Calzaferri
in "Taylor-made Silicon-Oxygen Compounds" From Molecules to Materials
R. Corriu and P. Jutzi Eds.; Vieweg mbH, Wiesbaden (1996) 149-169.
ISBN 9783528067984
- 123 *Size Quantization and Surface States of Molybdenum Sulfide Clusters: A Molecular Orbital Approach*
Martin Brändle, Gion Calzaferri and Martin Lanz
Chemical Physics 201 (1995) 141-150.
[https://doi.org/10.1016/0301-0104\(95\)00272-2](https://doi.org/10.1016/0301-0104(95)00272-2)
- 122 *Vibrations of H₈Si₈O₁₂ and H₁₀Si₁₀O₁₅*
Gion Calzaferri, Claudia Marcolli and John Tomkinson
ISIS Experimental Report, Rutherford Appleton Laboratory, 1995, RB 6006, 1 p
- 121 *Cationic Dye Molecules in Zeolite L as Artificial Antenna*
Frank Binder, Gion Calzaferri and Niklaus Gfeller
Proc. Indian Acad. Sci. (Chem. Sci.) 107 (1995) 753-767.
<https://doi.org/10.1007/BF02869967>
- 120 *Octachlorosilasesquioxane, Cl₈Si₁₂O₁₂*
Karl Törnroos, Hans-Beat Bürgi and Gion Calzaferri
Acta Cryst. C51 (1995) 1732-1735.
<https://doi.org/10.1107/S0108270195004410>
- 119 *Methyl Viologen-Zeolite Electrodes: Intrazeolite Charge-Transfer*
Gion Calzaferri, Martin Lanz and Jian-Wei Li
J. Chem. Soc. Chem. Commun. (1995) 1313-1314.
<https://doi.org/10.1039/C39950001313>

- 118 *Reply to "Comment on Intrazeolite Electron Transport Mechanism". The Importance of the Manner to Prepare Zeolite-Modified Electrodes.*
Jian-Wei Li, Klaus Pfanner and Gion Calzaferri
J. Phys. Chem. 99 (1995) 12368-12369.
<https://doi.org/10.1021/j100032a050>
- 117 *Proceedings, Tenth International Conference on Photochemical Conversion and Storage of Solar Energy (IPS-10)*
Gion Calzaferri, Editor
Solar Energy Materials and Solar Cells 38 (1995) 1-590.
[http://dx.doi.org/10.1016/0927-0248\(93\)90148-V](http://dx.doi.org/10.1016/0927-0248(93)90148-V)
- 116 *Photochemical and Photophysical Properties of Ag⁺-Zeolite Monograin Layers on a Substrate*
Gion Calzaferri, Andreas Kunzmann, Philippe Lainé, and Klaus Pfanner
Proceedings IS&T's 48th Annual Conference (1995) 318-320.
- 115 *Electronic Transition Oscillator Strength by the Extended-Hückel Molecular Orbital Method*
Gion Calzaferri and Ruedi Rytz
J. Phys. Chem. 99 (1995) 12141-12150.
<https://doi.org/10.1021/j100032a015>
- 114 *Dye Molecules in Zeolites as Artificial Antenna*
Frank Binder, Gion Calzaferri and Niklaus Gfeller
Solar Energy Materials and Solar Cells, August 38 (1995) 175-186
[https://doi.org/10.1016/0927-0248\(94\)00224-X](https://doi.org/10.1016/0927-0248(94)00224-X)
- 113 *Silver-Zeolite Modified Electrodes: An Intrazeolite Electron Transport Mechanism*
Jian-Wei Li, Klaus Pfanner and Gion Calzaferri
J. Phys. Chem. 99 (1995) 2119-2126.
<https://doi.org/10.1021/j100007a049>
- 112 *Molecular Geometries by the Extended-Hückel Molecular Orbital Method: A Comment*
Gion Calzaferri and Claudia Marcolli
J. Phys. Chem. 99 (1995) 3895-3897.
<https://doi.org/10.1021/j100012a004>
- 111 *The Crystal and Molecular Structure of Dodecahydridosilasesquioxane, H₁₂Si₁₂O₁₈*
Karl Törnroos, Hans-Beat Bürgi and Gion Calzaferri
Acta Crystallogr. B51 (1995) 155-161.
<https://doi.org/10.1107/S0108768194013558>
- 110 *Photochemical Oxidation of Water and Electrochemistry of Silver Chloride Complexes occluded in Zeolite A*
Gion Calzaferri, Niklaus Gfeller and Klaus Pfanner
J. Photochem. Photobiol. A: Chemistry, 87 (1995) 81-85.
[https://doi.org/10.1016/1010-6030\(94\)03961-S](https://doi.org/10.1016/1010-6030(94)03961-S)
- 109 *Why is the Si-X stretching frequency of X₈Si₈O₁₂ (X=H, CH₃, Cl) much larger than that of XSi(OSiMe₃)₃?*
Martin Bärtsch, Gion Calzaferri and Claudia Marcolli
Res. on Chemical Intermediates 6 (1995) 577-586.
<https://doi.org/10.1163/156856795X00431>
- 108 *Correlation of the Vibrational Structure of H₈Si₈O₁₂ and H₁₀Si₁₀O₁₅*
Martin Bärtsch, Peter Bornhauser, Gion Calzaferri and Roman Imhof
Vibrational Spectroscopy 8 (1995) 305-308.
[https://doi.org/10.1016/0924-2031\(94\)00027-E](https://doi.org/10.1016/0924-2031(94)00027-E)

- 107 *Chemisorption of Pyrrole-Siloxane on Zeolite L and X: A Thin Layer Infrared Study*
Lydia Barbosa and Gion Calzaferri
Research on Chemical Intermediates 21 (1995) 25-31.
<https://doi.org/10.1163/156856795X00044>
- 106 *Silver Clusters in the Cages of Zeolites: A Quantum Chemical Study*
Martin Brändle and Gion Calzaferri
Research on Chemical Intermediates, 20 (1994) 783-806
<https://doi.org/10.1163/156856794X00540>
- 105 *Structural and Vibrational Properties of the Octanuclear Silasesquioxane $C_6H_{13}(H_7Si_8O_{12})$*
Gion Calzaferri, Roman Imhof and Karl Törnroos
J. Chem. Soc. Dalton Trans. (1994) 3123-3128.
<https://doi.org/10.1039/DT9940003123>
- 104 *Copper-zeolite-modified electrodes: An intrazeolite ion transport mechanism*
Jian-Wei Li and Gion Calzaferri
J. Electroanalytical Chemistry, 377 (1994) 163-175.
[https://doi.org/10.1016/0022-0728\(94\)03455-9](https://doi.org/10.1016/0022-0728(94)03455-9)
- 103 Tenth International Conference on *Photochemical Conversion and Storage of Solar Energy (IPS-10)*, Book of Abstracts, 1994, 595 pages
Gion Calzaferri, Editor
- 102 *Vibrational Structure of Zeolite A*
Martin Bärtsch, Peter Bornhauser, Gion Calzaferri and Roman Imhof
Zeolites and Related Microporous Materials: State of the Art 1994. Studies in Surface Science and Catalysis, Vol. 84 (Elsevier B.V. 1994) 2089-2098.
[https://doi.org/10.1016/S0167-2991\(08\)63770-2](https://doi.org/10.1016/S0167-2991(08)63770-2)
- 101 *$H_8Si_8O_{12}$: A Model for the Vibrational Structure of Zeolite A*
Martin Bärtsch, Peter Bornhauser, Gion Calzaferri and Roman Imhof
J. Phys. Chem., 98 (1994) 2817- 2831.
<https://doi.org/10.1021/j100062a016>
- 100 *$H_7Si_8O_{12}Co(CO)_4$: Synthesis and Crystal Structure of a New Type of Monosubstituted Octanuclear Silasesquioxane with a Silicon-Cobalt Bond*
G. Calzaferri, R. Imhof and K. Törnroos
J. Chem. Soc. Dalton Transactions, (1993) 3741-3748.
<https://doi.org/10.1039/DT9930003741>
- 99 *An X-ray diffraction study of the molecular structure of a spherosiloxane $H_{10}Si_{10}O_{15}$, a flexible assembly of rigid tetrahedra*
H.-B. Bürgi, K.W. Törnroos, G. Calzaferri and H. Bürgy
Inorganic Chemistry 32 (1993) 4914-4919.
<https://doi.org/10.1021/ic00074a042>
- 98 *Silver Zeolite 4A Modified Electrodes: Intrazeolite Effect*
J. Li and G. Calzaferri
J. Chem. Soc. Chem. Commun. (1993) 1430-1432.
<https://doi.org/10.1039/C39930001430>
- 97 *Molecular Geometries by the Extended-Hückel Molecular Orbital Method III: Band Structure Calculation*
M. Brändle and Gion Calzaferri
Helv. Chim. Acta, 76 (1993) 2350-2355.
<https://doi.org/10.1002/hlca.19930760621>

- 96 *Preparative Separation of Higher Fullerenes by High-Performance Liquid Chromatography on a TCPP Column*
D. Herren, C. Thilgen, G. Calzaferri and F. Diederich
J. Chromatography, **644** (1993) 188-192.
[https://doi.org/10.1016/0021-9673\(93\)80129-V](https://doi.org/10.1016/0021-9673(93)80129-V)
- 95 *Towards Artificial Photosynthesis. Experiments with Silver Zeolites; Part 3*
G. Calzaferri
Proceedings of the Ninth International Conference on Photochemical Transformation and Storage of Solar Energy, IPS-9, August 23-28, 1992, Beijing, China, *International Academic Publishers, Ed. Z.W. Tian and Y. Cao*, 1993, 141-157.
- 94 *Geometry Optimization of Organometallic Compounds Using a Modified Extended-Hückel Formalism*
F. Savary, J. Weber and G. Calzaferri
J. Phys. Chem., **97** (1993) 3722-3727.
<https://doi.org/10.1021/j100117a016>
- 93 *Molecular Geometries by the Extended-Hückel Molecular Orbital Method II: Hydrocarbons and Organic Molecules containing O, N and S*
M. Brändle and G. Calzaferri
Helv. Chim. Acta, **76** (1993) 924-951.
<https://doi.org/10.1002/hlca.19930760216>
- 92 *Luminescence Properties of Cu⁺ in Zeolites. In Situ Study of Thin Layers*
G. Calzaferri, R. Giovanoli, I. Kamber, R. Nesper and V. Shklover
Research on Chemical Intermediates, **19** (1993) 31-57.
<https://doi.org/10.1163/156856793X00514>
- 91 *Synthesis of the First Organometallic Monosubstituted Octanuclear Silasesquioxane*
G. Calzaferri and R. Imhof
J. Chem. Soc. DALTON TRANS. (1992) 3391-3392.
<https://doi.org/10.1039/DT9920003391>
- 90 *Photochemical Oxidation of Water on a 1 μ Ag⁺ Zeolite Layer*
R. Beer, F. Binder and G. Calzaferri
J. Photochem. Photobiol. A: Chem., **69** (1992) 67-72.
[https://doi.org/10.1016/1010-6030\(92\)85262-S](https://doi.org/10.1016/1010-6030(92)85262-S)
- 89 *H₈Si₈O₁₂ - ein ideales Modell und eine interessante Ausgangsverbindung*
G. Calzaferri
Nachrichten aus Chemie, Technik und Laboratorium, **40** (1992) 1106-1114.
<https://doi.org/10.1002/nadc.19920401005>
- 88 *First Excited States of p-(N,N-Dimethylamino)benzonitrile: A Simple Description of the Twisted Intramolecular Charge Transfer State*
S. Bergamasco, G. Calzaferri, and K. Hädener
J. Photochem. Photobiol. A: Chem., **66** (1992) 327-331.
[https://doi.org/10.1016/1010-6030\(92\)80004-F](https://doi.org/10.1016/1010-6030(92)80004-F)
- 87 *Thionine in the Cage of Zeolite L*
G. Calzaferri and N. Gfeller
J. Phys. Chem., **96** (1992) 3428-3435.
<https://doi.org/10.1021/j100187a047>
- 86 *Photo- and Electroreduction of Carbon Dioxide by a Novel Rhenium(I) p-Phenyl-Terpyridine Carbonyl Complex*
G. Calzaferri, K. Hädener, and J. Li
J. Photochem. Photobiol. A, **64** (1992) 259-262.
[https://doi.org/10.1016/1010-6030\(92\)85113-9](https://doi.org/10.1016/1010-6030(92)85113-9)

- 85 *Vibrations of $H_8Si_8O_{12}$, $D_8Si_8O_{12}$ and $H_{10}Si_{10}O_{15}$*
M. Bärtsch, P. Bornhauser, and G. Calzaferri
(SPIE - The International Society for Optical Engineering)
SPIE Proceedings 8th International Conference on Fourier Transform Spectroscopy
Volume **1575** (1992) 588-589.
<https://doi.org/10.1117/12.56476>
- 84 *Isosbestic Points and Vibrational Levels in Electronically Excited States of Dye Molecules*
S. Bergamasco and G. Calzaferri
J. Photochem. Photobiol. A, **63** (1992) 211-215.
[https://doi.org/10.1016/1010-6030\(92\)85138-K](https://doi.org/10.1016/1010-6030(92)85138-K)
- 83 *Infrared and Raman Spectra of Octa(hydridosilasesquioxane)*
M. Bärtsch, P. Bornhauser, H. Bürgy, and G. Calzaferri
Spectrochimica Acta, **47A** (1991) 1627-1629.
[https://doi.org/10.1016/0584-8539\(91\)80258-K](https://doi.org/10.1016/0584-8539(91)80258-K)
- 82 *Towards Artificial Photosynthesis. Experiments with Silver Zeolites; Part 1*
R. Beer, G. Calzaferri, N. Gfeller, J. Li, and B. Waldeck
Proceedings of the Symposium on Electronic and Ionic Properties of Silver Halides - Common Trends with Heterogeneous Photocatalysis, 44th Annual Conference of the Society for Imaging Science and Technology, St. Paul, Mn, May 12-17, 1991; IS&T, Springfield, Va., p. 248-258.
- 81 *Mise en évidence de la localisation de charges dans un complex bis-terpyridine du ruthénium(II) à l'état excité*
E. Amouyal, M. Mouallem-Bahout et G. Calzaferri
C.R. Acad. Sci. Paris, **313**, Serie II (1991) 1129-1133.
- 80 *Towards Artificial Photosynthesis. Experiments with Silver Zeolites; Part 2*
R. Beer, G. Calzaferri, J. Li, and B. Waldeck
Coordination Chemistry Reviews **111** (1991) 193-200.
[https://doi.org/10.1016/0010-8545\(91\)84024-Y](https://doi.org/10.1016/0010-8545(91)84024-Y)
- 79 *Luminescence Experiments of Cu(I) Zeolites*
R. Beer, G. Calzaferri, and I. Kamber
J. Chem. Soc. Chem. Commun. (1991) 1489-1490.
<https://doi.org/10.1039/C39910001489>
- 78 *Excited States of $M(II, d^6)$ -4-Phenyl-Terpyridine Complexes; Electron Localization*
E. Amouyal, M. Mouallem-Bahout, and G. Calzaferri
J. Phys. Chem. **95** (1991) 7641-7649.
<https://doi.org/10.1021/j100173a017>
- 77 *Monosubstitution von Octa(hydridosilasesquioxane) $H_8Si_8O_{12}$ zu $R'H_7Si_8O_{12}$*
G. Calzaferri, D. Herren, and R. Imhof
Helv. Chim. Acta, **74** (1991) 1278-1280.
<https://doi.org/10.1002/hlca.19910740616>
- 76 *Towards Artificial Photosynthesis. Experiments with Silver Zeolites*
G. Calzaferri
Advanced printing of paper summaries, IS&T'S 44th, St. Paul May 12-17 (1991) 121-124.
- 75 *Quasi-Reversible Silver Zeolite Electrode by Photochemical Modification*
G. Calzaferri, K. Hädener, and J. Li
J. Chem. Soc. Chem. Commun. (1991) 653-654.
<https://doi.org/10.1039/C39910000653>

- 74 *The Symmetrical Octasilasesquioxanes $X_8Si_8O_{12}$: Electronic Structure and Reactivity*
G. Calzaferri and R. Hoffmann
J. Chem. Soc. Dalton Trans. (1991) 917-928.
<https://doi.org/10.1039/DT9910000917>
- 73 *Spherosiloxanes and Spherometallosiloxanes*
H. Bürgy, G. Calzaferri, D. Herren, and A. Zhdanov
Chimia **45** (1991) 3-8.
<https://doi.org/10.2533/chimia.1991.3>
- 72 *New Synthetic Route to Polyhedral Organylsilasesquioxanes*
D. Herren, H. Bürgy, and G. Calzaferri
Helv. Chim. Acta **74** (1991) 24-26.
<https://doi.org/10.1002/hlca.19910740105>
- 71 *Pd katalysierter Deuteriumaustausch am Octa-(Silasesquioxane) $H_8Si_8O_{12}$ zu $D_8Si_8O_{12}$*
H. Bürgy and G. Calzaferri
Helv. Chim. Acta **73** (1990) 698-699.
<https://doi.org/10.1002/hlca.19900730318>
- 70 *Reduction of Silver Cations in Silver Zeolites by Carbon Monoxide*
G. Calzaferri, W. Suter, and B. Waldeck
J. Chem. Soc. Chem. Commun. (1990) 485-487.
<https://doi.org/10.1039/C39900000485>
- 69 *Normal Coordinate Analysis of $H_8Si_8O_{12}$*
P. Bornhauser and G. Calzaferri
Spectrochimica Acta **46A** (1990) 1045-1056.
[https://doi.org/10.1016/0584-8539\(90\)80221-J](https://doi.org/10.1016/0584-8539(90)80221-J)
- 68 *Solute-Solvent Relaxation of Electronically Excited Xanthene Dyes*
S. Bergamasco, G. Calzaferri, and K. Hädener
J. Photochem. Photobiol. A: **53** (1990) 109 -125.
[https://doi.org/10.1016/1010-6030\(90\)87117-T](https://doi.org/10.1016/1010-6030(90)87117-T)
- 67 *Separation of the Oligomeric Silasesquioxanes ($HSiO_{3/2}$)₈₋₁₈ by Size-Exclusion Chromatography*
H. Bürgy and G. Calzaferri
J. of Chromatography, **507** (1990) 481-485.
[https://doi.org/10.1016/S0021-9673\(01\)84227-8](https://doi.org/10.1016/S0021-9673(01)84227-8)
- 66 *Direct Transformation of Solar Energy into Mechanical Movement*
J.C. Courvoisier, B. Crawford Jr., and G. Calzaferri
Chimia **43** (1989) 229.
- 65 *Long-Range Photovoltaic R&D Concepts*
J.R. Bolton, G. Calzaferri, A. Goetzberger, T.J. Schaafsma, and G.T. Wrixon
Chimia **43** (1989) 215-217.
- 64 *Molecular Geometries by the Extended Hückel Molecular Orbital Method*
G. Calzaferri, L. Forss, and I. Kamber
J. Phys. Chem. **93** (1989) 5366-5371.
<https://doi.org/10.1021/j100351a013>
- 63 *Infrared Transmission Spectroscopy of Silver Zeolite A*
J. Baumann, R. Beer, G. Calzaferri, and B. Waldeck
J. Phys. Chem. **93** (1989) 2292-2302.
<https://doi.org/10.1021/j100343a020>

- 62 *Energy Conversion in Solar Fuels and Chemicals*
G. Calzaferri
Proceedings of the 3rd International Summer School "Solar Energy 88", Editor
G. Faninger, IFF Klagenfurt (1989) 119-123.
- 61 *Photoelectrochemical Experiment with Ag/AgCl Electrodes*
R. Beer, G. Calzaferri, and W. Spahni
Chimia **42** (1988) 134-137.
- 60 *Conversion and Amplification of Photomultiplier Anode Current in Multiple Fre-
quency Phase Fluorometry*
K. Hädener, S. Bergamasco, and G. Calzaferri
Rev. Sci. Instrum. **59** (1988) 1924-1927.
<https://doi.org/10.1063/1.1140052>
- 59 *Interaction of Carbon Dioxide with Silver Zeolites*
J. Baumann, R. Beer, and G. Calzaferri
Chimia **42** (1988) 100-103.
- 58 *ATR-FTIR Experiments with Chlorosilanes*
H. Bürgy, G. Calzaferri, and I. Kamber
Microchim. Acta (Springer), I (1988) 401-403.
<https://doi.org/10.1007/BF01205916>
- 57 *FTIR Characterization of Metal-Loaded Zeolites*
J. Baumann, R. Beer, and G. Calzaferri
Microchim. Acta (Springer), II (1988) 11-13.
<https://doi.org/10.1007/BF01349711>
- 56 *Photochemical and Photoelectrochemical Transformation and Storage of Solar En-
ergy*
J. Baumann, R. Beer, G. Calzaferri, L. Forss, and W. Spahni
Advances in Solar Technology, Volume 3, Pergamon 1987, 2989-2994.
<https://doi.org/10.1016/B978-0-08-034315-0.50551-6>
- 55 *ATR-FTIR Experiments with $R_8 Si_8 O_{12}$ on Ge and ZnSe*
R. Beer, H. Bürgy, G. Calzaferri, and I. Kamber
J. of Electron Spectroscopy and related Phenomena, **4** (1987) 121-130.
[https://doi.org/10.1016/0368-2048\(87\)87013-5](https://doi.org/10.1016/0368-2048(87)87013-5)
- 54 *Particle in a one-dimensional Box as a Model for the Description of Conjugated
Systems*
G. Calzaferri
Chimia **41** (1987) 248-250.
<https://doi.org/10.2533/chimia.1987.248>
- 53 *Photoelektrochemische Zelle mit 1.1 Volt Leerlaufspannung*
G. Calzaferri and W. Spahni
Chimia **41** (1987) 200-202.
- 52 *Photochemische Umwandlung und Speicherung der Sonnenenergie*
G. Calzaferri, L. Forss, and W. Spahni
Chemie in unserer Zeit **21** (1987) 161-174.
<https://doi.org/10.1002/ciuz.19870210504>

- 51 *Copper and Silver Atoms in the -Cage of a Zeolite: Model Calculations*
G. Calzaferri and L. Forss
Helv. Chim. Acta **70** (1987) 465-479.
<https://doi.org/10.1002/hlca.19870700227>
- 50 *Correlation of Linestrength and Linewidth in Highly Resolved Infrared Spectroscopy*
G. Calzaferri and K. Hädener
Chimia **41** (1987) 119-121.
- 49 *pH-Abhängigkeit der photochemischen Chlor- und Sauerstoffentwicklung in einer wässrigen chloridhaltigen Silberzeolith-Dispersion*
G. Calzaferri and W. Spahni
Chimia **40** (1986) 435-436.
- 48 *An Ag-Atom in the 6-6 Subunit of a Zeolite: Model Calculations*
Gion Calzaferri and Lars Forss
Helv. Chim. Acta **69** (1986) 873-880.
<https://doi.org/10.1002/hlca.19860690414>
- 47 *Neue Brennstoffe durch Photosynthese*
Gion Calzaferri,
Bull. SEV/VSE **77** (1986) 533-537.
- 46 *Self-Sensitization of Photochlorine Evolution in Aqueous Dispersions of Silver Zeolites*
Gion Calzaferri and Werner Spahni
J. Photochem. **32** (1986) 151-155.
[https://doi.org/10.1016/0047-2670\(86\)87004-6](https://doi.org/10.1016/0047-2670(86)87004-6)
- 45 *Photoredox-Reaktionen*
Gion Calzaferri
Chimia **40** (1986) 74-93.
- 44 *Photochemical, Electrochemical and Thermochemical Transformation and Storage of Solar Energy: Thermodynamic Aspects*
Gion Calzaferri
ESA SP-240 (1985) 93-100.
- 43 *Reaktionskinetik einer Monomolekularen Oberflächenbelegung von Germanium mit 4-(Trichlorsilylmethyl)benzonnitril mit Hilfe von FTIR-Experimenten*
G. Calzaferri and M. Gori
Helv. Chim. Acta **68** (1985) 1617-1623.
<https://doi.org/10.1002/hlca.19850680614>
- 42 *Time-Resolved Fluorescence Spectra Derived From Multiple Frequency Phase Fluorimetry*
G. Calzaferri and Th. Hugentobler
Chem. Phys. Lett. **121** (1985) 147-153.
[https://doi.org/10.1016/0009-2614\(85\)87173-6](https://doi.org/10.1016/0009-2614(85)87173-6)
- 41 *Self-Absorption and Re-Emission in Wavelength-Dependent Fluorescence Decay*
J. Baumann, G. Calzaferri, and Th. Hugentobler
Chem. Phys. Lett. **116** (1985) 66-72.
[https://doi.org/10.1016/0009-2614\(85\)80127-5](https://doi.org/10.1016/0009-2614(85)80127-5)

- 40 *Passivation of Recombination Centers in WSe₂ by Photoelectrochemical Etching*
R. Tenne, W. Spahni, G. Calzaferri, and A. Wold
Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, Volume 189, Issue 2, 25 July 1985, Pages 247-256
[http://dx.doi.org/10.1016/0368-1874\(85\)80071-X](http://dx.doi.org/10.1016/0368-1874(85)80071-X)
- 39 *Wavelength-Dependent Fluorescence Decay: An Investigation by Multiple-Frequency Picosecond Phase Fluorometry*
J. Baumann, G. Calzaferri, L. Forss, and Th. Hugentobler
J. Photochem. **28** (1985) 457-473.
[https://doi.org/10.1016/0047-2670\(85\)87040-4](https://doi.org/10.1016/0047-2670(85)87040-4)
- 38 *Synthese von para-substituierten Phenyl-Terpyridin Liganden*
W. Spahni and G. Calzaferri
Helv. Chim. Acta **67** (1984) 450-454.
<https://doi.org/10.1002/hlca.19840670214>
- 37 *Self-Sensitization of Photo-Oxygen Evolution in Ag⁺-Zeolites: Computer-Controlled Experiments*
G. Calzaferri, S. Hug, Th. Hugentobler, and B. Sulzberger
J. Photochem. **26** (1984) 108-118.
[https://doi.org/10.1016/0047-2670\(84\)80030-1](https://doi.org/10.1016/0047-2670(84)80030-1)
- 36 *Relative Shift of Ligand versus Metal Orbitals*
G. Calzaferri and L. Forss
Chem. Phys. Lett. **103** (1984) 296-301.
[https://doi.org/10.1016/0009-2614\(84\)80010-X](https://doi.org/10.1016/0009-2614(84)80010-X)
- 35 *Development of Picosecond Time-Resolved Techniques by Continuous-Wave Laser Amplitude Modulation. V. Elimination of r.f. Interference Problems*
J. Baumann and G. Calzaferri
J. Photochem. **23** (1983) 387-390.
[https://doi.org/10.1016/0047-2670\(83\)87011-7](https://doi.org/10.1016/0047-2670(83)87011-7)
- 34 *Development of Picosecond Time-Resolved Techniques by Continuous-Wave Laser Amplitude Modulation. IV. Systematic Errors*
J. Baumann and G. Calzaferri
J. Photochem. **22** (1983) 297-312.
[https://doi.org/10.1016/0047-2670\(83\)85010-2](https://doi.org/10.1016/0047-2670(83)85010-2)
- 33 *The Instability of H₃*
Gion Calzaferri
Chem. Phys. Lett. **87** (1982) 443-446.
[https://doi.org/10.1016/0009-2614\(82\)83007-8](https://doi.org/10.1016/0009-2614(82)83007-8)
- 32 *Transformation of Light Energy into Chemical Energy. III. Some Aspects of Photogalvanic Cells*
G. Calzaferri, in Photochemical Conversion and Storage of Solar Energy 1982 (Fourth international conference; (Jerusalem, August 8-13) 1982) Part A. Ed. J. Rabani, The Weizmann Science Press of Israel, (1982) 81-113.
ISBN 9652700002
- 31 *d-π* Transitions for Electron Injection into the conduction Band of Semiconductors*
G. Calzaferri, M. Gori, H.R. Grüniger, and W. Spahni, in Photoelectrochemistry; Fundamental Processes and Measurement Techniques, Ed. W.L. Wallace, A.J. Nozik, S.K. Dep. The Amer. Electrochem. Soc. Vol. 82-3 (1982) 264-281.

- 30 *Oxygen Detection in Photochemical Experiments*
B. Sulzberger and G. Calzaferri
J. Photochem. **19** (1982) 321-327.
[https://doi.org/10.1016/0047-2670\(82\)80035-X](https://doi.org/10.1016/0047-2670(82)80035-X)
- 29 *Reaktivität und Elektronenstruktur porphinoider Nickelkomplexe*
K. Meier, R. Scheffold, and G. Calzaferri
Helv. Chim. Acta **64** (1981) 2361-2368.
<https://doi.org/10.1002/hlca.19810640742>
- 28 *Umwandlung von Lichtenergie in chemische Energie. II. Experimente zu diesem Thema*
G. Calzaferri
Chimia **35** (1981) 209-220.
- 27 *Picosecond Time Resolution by a Continuous Wave Laser Amplitude Modulation Technique. III. Dual-Beam Luminescence Experiment*
H. Gugger and G. Calzaferri
J. Photochem. **16** (1981) 31-41.
[https://doi.org/10.1016/0047-2670\(81\)80015-9](https://doi.org/10.1016/0047-2670(81)80015-9)
- 26 *Picosecond Time Resolution by a Continuous Wave Laser Amplitude Modulation Technique. II. Experimental Basis*
H. Gugger and G. Calzaferri
J. Photochem. **13** (1980) 295-307.
[https://doi.org/10.1016/0047-2670\(80\)80021-9](https://doi.org/10.1016/0047-2670(80)80021-9)
- 25 *Picosecond Time Resolution by a Continuous Wave Laser Amplitude Modulation Technique. I. A Critical Investigation*
H. Gugger and G. Calzaferri
J. Photochem. **13** (1980) 21-33.
[https://doi.org/10.1016/0047-2670\(80\)85056-8](https://doi.org/10.1016/0047-2670(80)85056-8)
- 24 *Photochemical Properties of Sintered -Iron Oxide*
M. Gori, H.R. Grüniger, and G. Calzaferri
J. Appl. Electrochem. **10** (1980) 345-359.
<https://doi.org/10.1007/BF00617209>
- 23 *Synthese von 4-Trichlorsilylmethylbenzonnitril und 4-(2-Trichlorsilyläthyl)pyridin zur Oberflächenmodifikation von Zinndioxid*
H.R. Grüniger and G. Calzaferri
Helv. Chim. Acta **62** (1979) 2547-2550.
<https://doi.org/10.1002/hlca.19790620806>
- 22 *Photochemical Investigation of the Iodine/Iron System*
J. Baumann, H.R. Grüniger, and G. Calzaferri
Z. Phys. Chem. NF **118** (1979) 11-30.
<https://doi.org/10.1524/zpch.1979.118.1.011>
- 21 *Energy Balance of Photoredox Systems*
B. Sulzberger, H.R. Grüniger, M. Gori, and G. Calzaferri
in *Angewandte chemische Thermodynamik und Thermoanalytik*
Experientia Suppl. **37**, Birkhäuser (1979) 133-139.
ISBN 978-3-0348-5546-4
- 20 *Generalization of the Reduction Degree*
G. Calzaferri and J. Baumann
Z. Phys. Chem. NF **118** (1979) 129-135.
<https://doi.org/10.1524/zpch.1979.118.2.129>

- 19 *Charge-Transferübergänge im Pentacyano-benzonitril-ferrat(II)*
G. Calzaferri and H.R. Grüniger
Helv. Chim. Acta **62** (1979) 1112-1120.
<https://doi.org/10.1002/hlca.19790620421>
- 18 *Clark-ähnlicher Wasserstoffdetektor*
H.R. Grüniger, B. Sulzberger, and G. Calzaferri
Helv. Chim. Acta **61** (1978) 2375-2380.
<https://doi.org/10.1002/hlca.19780610710>
- 17 *Three Experiments on Transient Photochemistry Using a CW Laser*
H. Gugger, S. Leutwyler, E. Schumacher, and G. Calzaferri
J. of Photochemistry **9** (1978) 263-65.
[https://doi.org/10.1016/0047-2670\(78\)80135-X](https://doi.org/10.1016/0047-2670(78)80135-X)
- 16 *Reduktionsgrad in Photoredox-Systemen*
G. Calzaferri and H.R. Grüniger
Helv. Chim. Acta **61** (1978) 950-959.
<https://doi.org/10.1002/hlca.19780610303>
- 15 *Reduction Degree in Photoredox Systems*
G. Calzaferri
in "Photosynthetic Oxygen Evolution", Academic Press, 1978, 31-58.
Editor H. Metzner, ISBN 10: [012491750X](https://doi.org/10.1016/0047-2670(78)80135-X) / ISBN 13: [9780124917507](https://doi.org/10.1016/0047-2670(78)80135-X)
- 14 *Umwandlung von Lichtenergie in chemische Energie*
G. Calzaferri
Chimia **32** (1978) 241-253.
- 13 *Gleichgewichtsdiskussion zweier Photoredox-Systeme*
G. Calzaferri and H.R. Grüniger
Z. Naturforsch. **32a** (1977) 1036-1041.
<https://doi.org/10.1515/zna-1977-0920>
- 12 *Modellrechnungen an Hexacyanoferraten und Pentacyanoferraten mit stickstoffhaltigen Liganden*
G. Calzaferri and F. Felix
Helv. Chim. Acta **60** (1977) 730-740.
<https://doi.org/10.1002/hlca.19770600306>
- 11 *Thionin/Eisen, Neues über ein altes photochromes System*
G. Calzaferri and H.R. Grüniger
Chimia **31** (1977) 58.
- 10 *Messung der inneren Beweglichkeit von Methincyaninen mit der Einphotonmethode*
U. Jörg, Th. Binkert, and G. Calzaferri
J. Appl. Math. and Phys. (ZAMP) **28** (1977) 363-366.
<http://link.springer.com/article/10.1007/BF01595614>
- 9 *Einfluss intramolekularer Bewegungen auf die Fluoreszenzquantenausbeute*
G. Calzaferri, H. Gugger, and S. Leutwyler
Helv. Chim. Acta **58** (1976) 1969-1987.
<https://doi.org/10.1002/hlca.19760590611>
- 8 *Diskussion chemischer Gleichgewichte*
Th. Dubler, C. Maissen, and G. Calzaferri
Z. Naturforsch. **31b** (1976) 569-579.
<https://doi.org/10.1515/znb-1976-0508>

- 7 *Model Calculations on Thiocarbonyl Systems*
G. Calzaferri and R. Gleiter
J.C.S. Perkin II (1975) 559-566.
<https://doi.org/10.1039/P29750000559>
- 6 *Photochromie 4-substituierter Benzofuroxane*
G. Calzaferri, R. Gleiter, K.H. Knauer, D. Martin, and E. Schmidt
Angew. Chemie **86** (1974) 52-53.
<https://doi.org/10.1002/ANGE.19740860115>
- 5 *Photochromism of Oxygen and Nitrogen Analogs of Thiathiophthenes*
G. Calzaferri, R. Gleiter, K.H. Knauer, E. Schmidt, and H. Beringer
Chimia **27** (1973) 646.
- 4 *Photochromie von Dimethylthiathiophthen und N-Analoga von Thiathiophthenen*
G. Calzaferri, R. Gleiter, R. Gyax, K.H. Knauer, and E. Schmidt
Helv. Chim. Acta **56** (1973) 2584-2588.
<https://doi.org/10.1002/hlca.19730560743>
- 3 *Photochromism of O-Analogs of Thiathiophthenes*
G. Calzaferri, R. Gleiter, K.H. Knauer, E. Rommel, E. Schmidt, and H. Behringer
Helv. Chim. Acta **56** (1973) 597-609.
<https://doi.org/10.1002/hlca.19730560205>
- 2 *Stöchiometrie und "messbare" Freiheitsgrade in der Chemischen Reaktionskinetik*
Gion Calzaferri and Theodor Dubler
Ber. Bunsenges. phys. Chemie **76** (1972) 1143-1147.
<https://doi.org/10.1002/bbpc.19720761104>
- 1 *Homogene und heterogene Redoxreaktionen einiger 1,4 Diazine*
Gion Calzaferri
Dissertation Nr. 680, 1971 Universität Fribourg
Supplementary material 1971 (not included in the printed version)

Patents

- P_1 **Method and apparatus for processing cellulose-containing textiles with the capors from an azeotropic liquid comprising an acidic catalyst**
G. Calzaferri, W. Kunz, M. Schwemmer, and M. Wyler
US 3647353 (1972)
- P_2 **Dye Loaded Zeolite Material**
Gion Calzaferri
EP 1335879 B1 (2007)
- P_3 **Dye Loaded Zeolite Material**
Gion Calzaferri
US 6932919 B2 (2005) ;
US 8222592 B2(2012); US 7914702 B2 (2011)
- P_4 **Dye Loaded Zeolite Material Containing Devices**
Gion Calzaferri
US 7,327,012 B2 (2008)
- P_5 **Oriented zeolite material and method for producing the same**
Gion Calzaferri, Arantzazu Zabala Ruiz, Huanrong Li, Stefan Huber
WO 2007/012216 (2007)
- P_6 **Transparent zeolite-polymer hybrid material with tunable properties**
H.J. Metz, G. Calzaferri, S. Suarez, A. Devaux, A. Kunzmann,
EP 18732002 B1, US 7655300 B2 (2010); JP 4984238 B2; KR 101361434 B1
Performance with adjustable transparency zeolite - polymer hybrid materials
CN 101100535 B (2011)
- P_7 **Preparation of micro-porous crystals and conjugates thereof**
Z. Popović, M. Tsotsalas, M. Busby, L. De Cola, G. Calzaferri, H. P. Josel
WO 2008/052603, PCT/EP2007/005811, China 1128455
US 8445214 B2 (2011)
- P_8 **Preparation of micro-porous crystals and conjugates thereof**
Z. Popović, M. Tsotsalas, M. Busby, L. De Cola, G. Calzaferri, H. P. Josel
US 7960124 B2 (2011)
- P_9 **Lumineszenzkonzentratoren und Lumineszenzdispergatoren auf der Basis orientierter Farbstoff-Zeolith Antennen**
EP2291484 B1 (2012)
Luminescence concentrators and luminescence dispersers on the basis of oriented dye zeolite antennas
Gion Calzaferri, Andreas Kunzmann, Dominik Brühwiler, Christophe Bauer
EP 2291484 B1 (2012), CH-698333, CN102089402 (B); US 8917969 B2; CN20098 0125078.3 B (2014)
- P_10 **Method for intercalating chromophores into Zeolite L nanochannels and products thereof**
Gion Calzaferri, Luisa De Cola, Michael Busby, Christian Blum, Vinod Subramaniam UK
0812218.6; US 8173041 B2 (2012)
- P_11 **Local J-coupling ZeoFRET® materials**
Gion Calzaferri, Dominik Brühwiler, Andreas Kunzmann
EP 279274 B1 (2016)

Published Computer Programs

- C_1 EHMO-CALCULATIONS: ICONC and INPUTC
Gion Calzaferri, Lars Forss, Thomas Hugentobler and Ivo Kamber
Fortran Computerprogramm, mit Programmbeschreibung und Beispielen, 9. 11. 1989
- C_2 ICONC&INPUTC, Extended-Hückel Molecular Orbital Calculations (ASED)
Fortran Programm with examples and 47 pages manual (ersetzt ICONC and INPUTC)
Gion Calzaferri and Martin Brändle
Quantum Chemical Program Exchange, QCPE PROGRAM QCMP116, QCPE Bulletin, Vol. 12, No 4 (1992) p. 73; update May 1993
- C_3 ICON-EDiT, Extended-Hückel Molecular Orbital and Transition Dipole Moment Calculations (Fortran Computer Programm incl. a manual) Gion Calzaferri, Ruedi Rytz, Martin Brändle, Dominik Brühwiler, Stephan Glaus
available via [http://iacrs1.unibe.ch/\(130.92.11.3, 1997\)](http://iacrs1.unibe.ch/(130.92.11.3, 1997)), update 2000
- C_4 BICON_CEDiT, Extended-Hückel Band-Structure and Crystal Electronic Dipole induced Transitions Calculations (Fortran Computer Programm incl. a manual), fall 1997, update 1999, Martin Brändle, Ruedi Rytz, Gion Calzaferri, Stephan Glaus available via [http://iacrs1.unibe.ch \(130.92.11.3\)](http://iacrs1.unibe.ch (130.92.11.3))
- C_5 Introduction to basic terms of band structures
Marc Meyer, Stephan Glaus, Gion Calzaferri
J. Chem. Education 80, **2003**, 1220, The publication consists of a Mathcad program (60 pages) and instructions. JCE Online at
<http://jchemed.chem.wisc.edu/JCEWWW/Features/McadInChem>.

Not mentioned are more than 400 conference papers.