







# Katharina M. Fromm


## Journal Articles

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- 217- 4-[(E)-2-(1-Pyrenyl)Vinyl]Pyridine Complexes: How to Modulate the Toxicity of Heavy Metal Ions to Target Microbial Infections;** J. V. Schwarte, A. Crochet, K. M. Fromm. *Molecules* **2024**, 29, 1565. [DOI: 10.3390/molecules29071565](https://doi.org/10.3390/molecules29071565) 
- 216- Fixative effect of 2-oxo-2-phenylacetates in fine fragrance and eau-de-toilette applications;** D. L. Berthier, J. Girard, K. M. Fromm, A. Herrmann. *Flavour Fragr J.* **2023**, 00: 1-10. [DOI: 10.1002/ffj3769](https://doi.org/10.1002/ffj3769)
- 215- Photophysical Properties of Anthracene Derivatives;** A. Kastrati, F. Oswald, A. Scalabre, K. M. Fromm. *photochem* **2023**, 3(2), 227-273. [DOI: 10.3390/photochem3020015](https://doi.org/10.3390/photochem3020015) 
- 214- Stimuli-Responsive and Antibacterial Cellulose-Chitosan Hydrogels Containing Polydiacetylene Nanosheets;** E. S. Madivoli, J. V. Schwarte, P. G. Kareru, A. N. Gachanja, K. M. Fromm. *Polymers* **2023**, 15(5), 1062. [DOI: 10.3390/polym15051062](https://doi.org/10.3390/polym15051062) 
- 213- Chances and challenges of long-distance electron transfer for cellular redox reactions.** B. Giese, M. Karamash, K. M. Fromm. *FEBS Letters* **2023**, 597, 166-173. [DOI: 10.1002/1873-3468.14493](https://doi.org/10.1002/1873-3468.14493) 
- 212 Reduction Kinetic of Water Soluble Metal Salts by Geobacter sulfurreducens: Fe<sup>2+</sup>/Hemes Stabilize and Regulate Electron Flux Rates.** M. Karamash, M. Stumpe, J. Dengjel, C. A. Salgueiro, B. Giese, K. M. Fromm. *Frontiers in microbiology* **2022**, 13, 909109. [DOI: 10.3389/fmicb.2022.909109](https://doi.org/10.3389/fmicb.2022.909109)
- 211- A Rapid, Highly Sensitive and Selective Phosgene Sensor Based on 5,6-Pinenepyridine.** A. B. Solea, C. Curty, K. M. Fromm, C. Allemann, O. Mamula Steiner; *Chemistry an European Journal* **2022**, 19, 4, 1310-1322. [DOI: 10.1002/chem.202201772](https://doi.org/10.1002/chem.202201772)
- 209- Isolation of Cellulose Nanofibers from Oryza sativa Residues via TEMPO Mediated Oxidation.** E. S. Madivoli, P. G. Kareru, A. N. Gachanta, S. M. Mugo, D. M. Sujee, K. M. Fromm *Journal of Natural Fibers* **2022**, 19, 4, 1310-1322. [DOI:10.1080/15440478.2020.1764454](https://doi.org/10.1080/15440478.2020.1764454)
- 208- Multifunctional Anthracene-Based Ni-MOF with Encapsulated Fullerenes: Polarized Fluorescence Emission and Selective Separation of C<sub>70</sub> from C<sub>60</sub>.** S. I. Vasylevskiy, G. Raffy, S. Salentinig, A. Del Guerso, C. E. Housecroft, K. M. Fromm, D. M. Bassani *ACS Appl. Mater. Interfaces* **2021**, 4, 1 1310-1322. [DOI: 10.1021/acsami.1c19141](https://doi.org/10.1021/acsami.1c19141)
- 207- Complexation Behavior of Pinene–Bipyridine Ligands towards Lanthanides: The Influence of the Carboxylic Arm.** A. B. Solea, L. Yang, A. Crochet, K. M. Fromm, C. Allemann, O. Mamula, *Chemistry* **2022**, 4, 1, 18-30. [DOI:10.3390/chemistry4010002](https://doi.org/10.3390/chemistry4010002)  [Special Issue to Celebrate the Life and Work of Alexander von Zelewsky \(1936–2021\)](#)


**206- Memorial Issue Dedicated to Dr. Howard D. Flack: The Man behind the Flack Parameter.** C. E. Housecroft, K. M. Fromm, *Chemistry* **2021**, 3, 3, 818-820. [DOI: 10.3390/chemistry3030058](https://doi.org/10.3390/chemistry3030058) 

- 205- Efficient synthesis of isoindolones by intramolecular cyclisation of pyridinylbenzoic acids.** A. B. Solea, S. Wang, X.-S. Xue, A. Crochet, K. M. Fromm, K. N. Houk, O. Mamula, C. Allemann; *Org. Biomol. Chem.* **2021**, 19, 8025-8029. DOI: [10.1039/D1OB01343B](https://doi.org/10.1039/D1OB01343B)
- 204- NMR reveals the interplay between SilE and SilB model peptides in the context of silver resistance.** L. Babel, M.-H. Nguyen, C. Mittelheisser, M. Martin, K. M. Fromm, O. Walker, M. Hologne; *Chem. Comm.* **2021**, 57, 8726-8729. (cover) DOI: [10.1039/D1CC02597J](https://doi.org/10.1039/D1CC02597J)
- 203- 7-OH quinoline Schiff bases: are they the long awaited tautomeric bistable switches ?** A. Georgiev, D. Yordanov, N. Ivanova, V. Deneva, N. Vassilev, F. Kamounah, M. Pittelkow, A. Crochet, K. M. Fromm, L. Antonov; *Dyes and Pigment* **2021**, 195, 109739. DOI: [10.1016/j.dyepig.2021.109739](https://doi.org/10.1016/j.dyepig.2021.109739)
- 202- General Chemistry: Large Classes, Mixed Public, Three Languages (A Personal Experience).** K. M. Fromm; *Chimia* **2021**, 75, 39-44. DOI: [10.2533/chimia.2021.39](https://doi.org/10.2533/chimia.2021.39)
- 201- On the Ni<sub>0.75</sub>Ti<sub>1.5</sub>Fe<sub>0.5</sub>(PO<sub>4</sub>)<sub>3</sub>/C NASICON-type electrode material.** M. Srout, M. Amou, K. M. Fromm, I. Saadoun; *J. Electroanal. Chem.* **2021**, 114913. DOI: [10.1016/j.jelechem.2020.114913](https://doi.org/10.1016/j.jelechem.2020.114913)
- 200- New Antimicrobial Strategies Based on Metal Complexes.** M. Claudel, J. V. Schwarte, K. M. Fromm; *Chemistry* **2020**, 2(4), 849-899. DOI: [10.3390/chemistry2040056](https://doi.org/10.3390/chemistry2040056)
- 199- Handling (Nano)Silver as Antimicrobial Agent: Therapeutic Window, Dissolution Dynamics, Detection Methods and Molecular Interactions.** S.-L. Abram, K. M. Fromm; *Chem. Eur. J.* **2020**, 26, 10948-10971. DOI: [10.1002/chem.202002143](https://doi.org/10.1002/chem.202002143)
- 198- A Simple Reaction for DNA Sensing and Chemical Delivery.** E. Janett, K.-L. Diep, K. M. Fromm, C. G. Bochet; *ACS Sens.* **2020**, 5, 8, 2338-2343. DOI: [10.1021/acssensors.0c00988](https://doi.org/10.1021/acssensors.0c00988)
- 197- Bimetallic Salen-based compounds and their potential applications.** A. Finelli, S.-L. Abram, N. Hérault, A. Crochet, K. M. Fromm; *Cryst. Growth Des.* **2020**, 20, 8, 4945-4958. DOI: [10.1021/acs.cgd.9b01610](https://doi.org/10.1021/acs.cgd.9b01610)
- 196- Isolation of cellulose nanofibers from *oryza sativa* residues via TEMPO mediated oxidation.** E. S. Madivoli, P. G. Kareru, A. N. Gachanja, S. M. Mugo, D. M. Sujee & K. M. Fromm; *J. Nat. Fibers* **2020**. DOI: [10.1080/15440478.2020.1764454](https://doi.org/10.1080/15440478.2020.1764454)
- 195- OH group effect in the stator of  $\beta$ -diketone based rotary switches.** S. Hristova, F. S. Kamounah, A. Crochet, N. Vassilev, K. M. Fromm, L. Antonov; *Chemistry* **2020**, 2(2), 374-389. DOI: [10.3390/chemistry2020024](https://doi.org/10.3390/chemistry2020024)
- 194- Indirect solvent assisted tautomerism in 4-substituted phthalimide 2-hydroxy-Schiff bases.** D. Yordanov, V. Deneva, A. Georgiev, A. Crochet, K. M. Fromm, L. Antonov; *Spectrosc. Acta A* **2020**, 118416. DOI: [10.1016/j.saa.2020.118416](https://doi.org/10.1016/j.saa.2020.118416)


**193- A nano-rattle SnO<sub>2</sub>@carbon composite anode material for high-energy Li-ion batteries by melt diffusion impregnation.** S. Maharajan, N. H. Kwon, P. Brodard, K. M. Fromm; *Nanomaterials* **2020**, 10(4). [DOI: 10.3390/nano10040804](https://doi.org/10.3390/nano10040804) 

**192- Improvement of the electrochemical performance by partial chemical substitution into the lithium site of titanium phosphate-based electrode materials for lithium-ion batteries: LiNi<sub>0.25</sub>Ti<sub>1.5</sub>Fe<sub>0.5</sub>(PO<sub>4</sub>)<sub>3</sub>.** M. Srout, M. El Kazzi, H. Ben Youcef, N. Semlal, K. M. Fromm, I. Saadoune; *J.Power Sources* **2020**, 228114. [DOI: 10.106/j.jpowsour.2020.228114](https://doi.org/10.106/j.jpowsour.2020.228114)


**191- Li<sub>0.5</sub>Ni<sub>0.5</sub>Ti<sub>1.5</sub>Fe<sub>0.5</sub>(PO<sub>4</sub>)<sub>3</sub>/C electrode material for lithium ion batteries exhibiting faster kinetics and enhanced stability.** M. Srout, N. H. Kwon, H. Ben Youcef, N. Semlal, K. M. Fromm, I. Saadoune; *ACS Appl. Mater. Interfaces* **2020**, 12, 16, 18496-18503 [DOI: 10.1021/acsami.0c00712](https://doi.org/10.1021/acsami.0c00712)

**190- Appropriate Buffers for Studying the Bioinorganic Chemistry of Silver(I).** L. Babel, S. Bonnet-Gomez, K. M. Fromm; *Chemistry* **2020**, 2, 193-202. [DOI: 10.3390/chemistry2010012](https://doi.org/10.3390/chemistry2010012) 

**189- Metal Nanoparticle-Microbe Interactions: Synthesis and Antimicrobial Effects.** M. R. Khan; K. M. Fromm; T. F. Rizvi; B. Giese; F. Ahamad; R. J. Turner; M. Füg; E. Marsili, *Part. Part. Syst. Charact.* **2020**, 1900419 . [DOI: 10.1002/ppsc.201900419](https://doi.org/10.1002/ppsc.201900419)

**188- Silver-Containing Titanium Dioxide Nanocapsules for Combating Multidrug-Resistant Bacteria.** N. Héroult, J. Wagner, S.-L. Abram, J. Widmer, L. Horvath, D. Vanhecke, C. Bourquin, K. M. Fromm, *Int J Nanomedicine.* **2020**; 15:1267-1281. [DOI: 10.2147/IJN.S231949](https://doi.org/10.2147/IJN.S231949) 

**187- Kinetics and Mechanism of Mineral Respiration: How Iron-Hemes Synchronize Electron Transfer Rates.** V. Chabert, L. Babel, M. P. Füg, M. Karamash, E. S. Madivoli, N. Héroult, J. M. Dantas, C. A. Salgueiro, B. Giese, K. M. Fromm, *Angew. Chem. Int. Ed.*, **2020**, 59, 30, 12331-12336. [DOI: 10.1002/anie.201914873](https://doi.org/10.1002/anie.201914873) *Angew. Chem.* (German Ed.): [DOI: 10.1002/ange.201914873](https://doi.org/10.1002/ange.201914873)


**186- Tautomerism and Self-Association in the Solution of New Pinene-Bipyridine and Pinene-Phenanthroline Derivatives** A. B. Solea, I. Cornu, V. Deneva, A. Crochet, K. M. Fromm, L. Antonov, C. Allemann, O. Mamula, *Molecules*, **2020**, 25(2), 298. [DOI: 10.3390/molecules2520298](https://doi.org/10.3390/molecules2520298) 


**185- Chemistry of alkaline earth metals: It is not all ionic and definitely not boring!** K. M. Fromm, *Coord. Chem. Reviews* **2020**, 408, 213193. [DOI: 10.1016/j.ccr.2020.213193](https://doi.org/10.1016/j.ccr.2020.213193)

**184- Surface modifications of positive-electrode materials for lithium ion batteries.** N. H. Kwon, J. Conder, M. Srout, K. M. Fromm, *Chimia*, **2019**, 73, 880-893. [DOI: 10.2533/chimia.2019.880](https://doi.org/10.2533/chimia.2019.880)


- 183- Sequential multi-target sensor: In<sup>3+</sup>, Fe<sup>2+</sup> and Fe<sup>3+</sup> discrimination by anthracene-base probe** A. Finelli, V. Chabert, N. Héroult, A. Crochet, C. Kim, K. M. Fromm, *Inorg. Chem.*, **2019**, 58, 20, 13796-13806. [DOI: 10.1021/acs.inorgchem.9b01478](https://doi.org/10.1021/acs.inorgchem.9b01478)
- 182- New Ni<sub>0.5</sub>Ti<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub>@C Nasicon-type electrode material with high rate capability performance for Lithium-ion batteries: Synthesis and Electrochemical properties I.** Saadoun, M. Srout, N.-H. Kwon, L. Wen, A. Züttel, K. M. Fromm, *ChemSusChem*, **2019**, 12, 1-9. [DOI: 10.1002/cssc.201902002](https://doi.org/10.1002/cssc.201902002)
- 181- Different coordination abilities of 1,7- and 4,7-phenanthroline in the reactions with copper(II) salts: structural characterization and biological evaluation of the reaction products** N. Lj. Stevanović, T. P. Andrejević, A. Crochet, T. Ilic-Tomic, N. S. Drašković, J. Nikodinovic-Runic, K. M. Fromm, Miloš I. Djuran, Biljana Đ. Glišić, *Polyhedron*, **2019**, 173, 114112. [DOI: 10.1016/j.poly.2019.114112](https://doi.org/10.1016/j.poly.2019.114112)
- 180- Tautomerism as primary signaling mechanism in metal sensing: the case of amide group** V. Deneva, G. Dobrikov, A. Crochet, D. Nedeltcheva, K. M. Fromm and L. Antonov, *Belstein J. Org. Chem.*, **2019**, 15, 1898-1906. [DOI: 10.3762/bjoc.15.185](https://doi.org/10.3762/bjoc.15.185) 
- 179- Efficient Perovskite Nanocrystal Light-Emitting Diodes Using Benzimidazole-Substituted Anthracene Derivative as the Electron Transport Material** S. Kumar, T. Marcato, S. Vasylevskyi, J. Jagielski, K. M. Fromm and C. Shih, *J. Mater. Chem. C*, **2019**, 7, 8938-8945. [DOI: 10.1039/C9TC02352F](https://doi.org/10.1039/C9TC02352F)
- 178- Compartmentalization of Alkaline Earth Metals in Salen-type Cu- and Ni-Complexes in Solution and in the Solid State** A. Finelli, N. Héroult, A. Crochet, K. M. Fromm, *ACS Omega* **2019**, 4, 6, 10231-10242. [DOI: 10.1021/acsomega.9b00365](https://doi.org/10.1021/acsomega.9b00365) 
- 177- Anion-induced structural diversity of Zn and Cd coordination polymers based on bis-9,10-(pyridine-4-yl)-anthracene, their luminescent properties and highly efficient sensing of nitro derivatives and herbicides** S. I. Vasylevskyi, D. M. Bassani, K. M. Fromm, *Inorganic Chemistry* **2019**, 58, 9, 5646-5653. [DOI: 10.1021/acs.inorgchem.8b03628](https://doi.org/10.1021/acs.inorgchem.8b03628)
- 176- Silver(I) complexes with 4,7-phenanthroline efficient in rescuing the zebrafish embryos of lethal Candida albicans infection** A. Pavic, N. D. Savić, B. Đ. Glišić, A. Crochet, S. Vojnovic, A. Kurutos, D. Stanković, K. M. Fromm, J. Nikodinovic-Runic, M. Djuran, *Journal of Inorganic Biochemistry* **2019**, 195, 149-163. [DOI: 10.1016/j.jinorgbio.2019.03.017](https://doi.org/10.1016/j.jinorgbio.2019.03.017)
- 175- Synthesis and structural analysis of polynuclear silver(I) complexes with 4,7-phenanthroline** I. Stanojević, N. D. Savić, A. Crochet, K. M. Fromm, M. I. Djuran, B. Đ. Glišić, *Journal of Serbian Chemical Society* **2019**, 84, 689-699 . [DOI: 10.2298/JSC190226024S](https://doi.org/10.2298/JSC190226024S) 
- 174- Isomerization and aggregation of 2-(2-(2-hydroxy-4-nitrophenyl)hydrazono)-1-phenylbutane-1,3-dione: recent evidences from theory and experiment** S. Hristova, F. S.


Kamounah, A. Crochet, P. E. Hansen, K. M. Fromm, D. Nedeltcheva, L. Antonov, *Journal of Molecular Liquids* **2019**, 283, 242-248. [DOI: 10.1016/j.molliq.2019.03.073](https://doi.org/10.1016/j.molliq.2019.03.073)

**173- Synthesis and Applications of Nanocontainers and Nanorattles** S.-L. Abram, P. Yep, K. M. Fromm, *Chimia* **2019**, 73, 12-16. [DOI: 10.2533/chimia.2019.12](https://doi.org/10.2533/chimia.2019.12) 


**172- Functional Polymers Through Mechanochemistry** S. Schrettl, D. W. R. Balkenende, C. Calvino, M. Karman, A. Lavrenova, L. N. Neumann, Y. Sagara, E. Verde-Sesto, M. di Giannantonio, Y. C. Simon, K. M. Fromm, M. Lattuada, C. Weder, *Chimia* **2019**, 73, 7-11. [DOI: 10.2533/chimia.2019.7](https://doi.org/10.2533/chimia.2019.7) 


**171- Tautomerism in azo dyes: Border cases of azo and hydrazo tautomers as possible NMR reference compounds** V. Deneva; S. Hristova; L. Antonov; A. Lyčka; A. Crochet; K. M. Fromm, *Dyes and pigments* **2019**, 165, 157-163. [DOI: 10.1016/j.dyepig.2019.02.015](https://doi.org/10.1016/j.dyepig.2019.02.015)

**170- A Review: Carbon Additives in LiMnPO<sub>4</sub>- and LiCoO<sub>2</sub>-Based Cathode Composites for Lithium Ion Batteries**  
N.-H Kwon, D. Mouck-Makanda, K. M. Fromm, *Batteries* **2018**, 4, 50-73. [DOI: 10.3390/batteries4040050](https://doi.org/10.3390/batteries4040050) 




**169- Metallocene as Mechanophore in Polymers Leads to Metal Ion Release & Oxidation** M. Di Giannantonio, M. A. Ayer, E. Verde-Sesto, M. Lattuada, C. Weder, K. M. Fromm, *Chimia* **2018**, 72, 12, 902. [DOI: 10.2533/chimia.2018.902](https://doi.org/10.2533/chimia.2018.902) 

**168- Betti Bases from 4-(3-Pyridazo)-1-naphthol: Synthesis, Coordination Behaviour and Unusual Substitution Reactions** V. B. Kurteva, L. A. Lubenov, B. L. Shivachev, R. P. Nikolova, K. M. Fromm, *ChemistrySelect* **2018**, 3, 12017–12021. [DOI: 10.1002/slct.201802745](https://doi.org/10.1002/slct.201802745)




**167- Polyaspartamide Functionalized Catechol-Based Hydrogels Embedded with Silver Nanoparticles for Antimicrobial Properties** M. Tan, Y. Choi, J. Kim, J.-H. Kim, K. M. Fromm, *Polymers* **2018**, 10, 1188-1203. [DOI: 10.3390/polym10111188](https://doi.org/10.3390/polym10111188) 

**166- Solid-state structure and antimicrobial and cytotoxicity studies of a cucurbit[6]uril-like Cu<sub>6</sub>L<sub>4</sub> constructed from 3,5-bis[(1H-tetrazol-5-yl)methyl]-4H-1,2,4-triazol-4-amine** S. I. Vasylevskiy, A. Holzheu, K. M. Fromm, *Acta Cryst. C* **2018**, C74, 1413-1419. [DOI: 10.1107/S2053229618013670](https://doi.org/10.1107/S2053229618013670) 


**165- Mononuclear silver(I) complexes with 1,7-phenanthroline as potent inhibitors of Candida growth** N. D. Savić, S. Vojnovic, B. Đ.Glišić, A. Crochet, A. Pavic, G. V. Janjić, M. Pekmezović, I. M. Opsenica, K. M. Fromm, J. Nikodinovic-Runic, M. I. Djuran, *European Journal of Medicinal Chemistry* **2018**, 156, 760-773. [DOI: 10.1016/j.ejmech.2018.07.049](https://doi.org/10.1016/j.ejmech.2018.07.049)

- 164- Alpha-helical folding of SiE models upon Ag(His)(Met) motif formation V.**  
Chabert, M. Hologne, O. Sénéque, O. Walker, K. M. Fromm, *Chem. Comm.* **2018**, *54*, 10419-10422. [DOI: 10.1039/c8cc03784a](https://doi.org/10.1039/c8cc03784a) 
- 163- Trithiocarbonate-Functionalized PNiPAAm-Based Nanocomposites for Antimicrobial Properties** M. Tan, L. Horváth, P. S. Brunetto and K. M. Fromm, *Polymers* **2018**, *10*(6), 665-690. [DOI: 10.3390/polym10060665](https://doi.org/10.3390/polym10060665) 
- 162- Triggered metal ion release and oxidation: Ferrocene as new mechanophore in polymers** M. Di Giannantonio, M. A. Ayer, E. Verde-Sesto, M. Lattuada, C. Weder, K. M. Fromm, *Angew. Chem., Int. Ed.* **2018**, *online*. [DOI: 10.1002/anie.201803524](https://doi.org/10.1002/anie.201803524) also available in German in *Angew. Chem.* **2018**, *online*. [DOI: 10.1002/ange.201803524](https://doi.org/10.1002/ange.201803524)
- 161- Early stage sustainability evaluation of new, nanoscale cathode materials for Li-ion batteries** R. Hischer, N.-H. Kwon, J.-P. Brog, K. M. Fromm, *ChemSusChem* **2018**, *11*, 13, 2068-2076. [DOI: 10.1002/cssc.201800109](https://doi.org/10.1002/cssc.201800109)
- 160- Amide Neighbouring-Group Effects in Peptides: Phenylalanine as Relay Amino Acid in Long-Distance Electron Transfer** J. G. Nathanael, L. F. Gamon, M. Cordes, P. R. Rablen, T. Bally, K. M. Fromm, B. Giese, U. Wille, *ChemBioChem*, **2018**, *19*, 922-926. [DOI:10.1002/cbic.201800098](https://doi.org/10.1002/cbic.201800098)
- 159- A Concept for stimulated proton transfer in 1-(phenyldiazenyl)naphthalen-2-ols** S. Hristova, V. Deneva, M. Pittelkow, A. Crochet, F. S. Kamounah, K. M. Fromm, P. E. Hansen, L. Antonov, *Dyes and Pigments* **2018**, *156*, 91-99. [DOI: 10.1016/j.dyepig.2018.03.070](https://doi.org/10.1016/j.dyepig.2018.03.070)
- 158- Versatile synthesis of chiral 6-oxoverdazyl radical ligands - new building blocks for multifunctional molecule-based magnets** A. B. Solea, T. Wohlhauser, P. Abbasi, Y. Mongbanziama, A. Crochet, K. M. Fromm, G. Novitchi, C. Train, M. Pilkington, O. Mamula, *Dalton Trans.* **2018**, *47*, 4785-4789. [DOI: 10.1039/C8DT00840J](https://doi.org/10.1039/C8DT00840J)
- 157- Ag Nanoencapsulation for Antimicrobial Applications** S.-L. Abram, J. Gagnon, M. Priebe, N. Héroult, K. M. Fromm, *Chimia* **2018**, *72*, 249-253. *cover*. [DOI: 10.2533/chimia.2018.249](https://doi.org/10.2533/chimia.2018.249) 
- 156- Puckering behavior in six new phosphoric triamides containing aliphatic six- and seven-membered ring groups and a database survey of analogous ring-containing structures** B. V. Alviri, M. Pourayoubi, A. Saneei, M. Keikha, A. van der Lee, A. Crochet, A. Ajees, M. Nečas, K. M. Fromm, K. Damodaran, T. A. Jenny, *Tetrahedron* **2018**, *74*, *1*, 28-41. [DOI: 10.1016/j.tet.2017.11.030](https://doi.org/10.1016/j.tet.2017.11.030)
- 155- Threading Salen-type Cu- and Ni-Complexes into One-Dimensional Coordination Polymers: Solution versus Solid State and the Size Effect of the Alkali Metal Ion** A. Finelli, N. Héroult, A. Crochet, K. M. Fromm, *Cryst. Growth Des.* **2018**, *2*, 1215-1226. [DOI: 10.1021/acs.cgd.7b01769](https://doi.org/10.1021/acs.cgd.7b01769)



- 154- WRI1 and DGAT1 regulate tocochromanol metabolism in Arabidopsis** S. Pellaud, A. Bory, V. Chabert, J. Romanens, L. Chaisse-Leal, A. V. Doan, L. Frey, A. Gust, K. M. Fromm, L. Mène-Saffrané, *New Phytologist* **2018**, *217*, 245–260. [DOI: 10.1111/nph.14856](https://doi.org/10.1111/nph.14856) 
- 153- Cis- and Trans-9,10-di(1H-imidazol-1-yl)-anthracene based coordination polymers of Zn<sup>II</sup> and Cd<sup>II</sup>: synthesis, crystal structures and luminescence properties** S. I. Vasylevskiy, K. Regeta, A. Ruggi, S. Petoud, C. Piguet, and K. M. Fromm, *Dalton Trans.*, **2018**, *47*, 596-607. [DOI: 10.1039/C7DT03758A](https://doi.org/10.1039/C7DT03758A)
- 152- The synergistic cooperation of NH<sup>⋯</sup>O and CH<sup>⋯</sup>O hydrogen bonds in the structures of three new phosphoric triamides** A. Saneei, M. Pourayoubi, J. P. Jasinski, T. A. Jenny, A. Crochet, K. M. Fromm & A. C. Keeley, *Phosphorus, Sulfur, and Silicon and the Related Elements*, **2018**, *193*, 257-266 . [DOI: 10.1080/10426507.2017.1399128](https://doi.org/10.1080/10426507.2017.1399128)
- 151- Characteristics and properties of nano-LiCoO<sub>2</sub> synthesized by pre-organized single source precursors: Li-ion diffusivity, electrochemistry and biological assessment** J.-P. Brog, A. Crochet, J. Seydoux, M. J. D. Clift, B. Baichette, S. Maharajan, H. Barosova, P. Brodard, M. Spodaryk, A. Züttel, B. Rothen-Rutishauser, N.-H. Kwon, K. M. Fromm, *JNanobiotechnol* **2017**, *15*, 58. [DOI: 10.1186/s12951-017-0292-3](https://doi.org/10.1186/s12951-017-0292-3) 
- 150- Influence of the Sacrificial Polystyrene Removal Pathway on the TiO<sub>2</sub> Nanocapsule Structure** N. Herault, K. M. Fromm, *Helvetica Chimica Acta* **2017**, *100(6)*, e1700014 . [DOI: 10.1002/hlca.201700014](https://doi.org/10.1002/hlca.201700014)
- 149- Different molecular assemblies in two new phosphoric triamides with the same C(O)NHP(O)(NH)<sub>2</sub> skeleton: crystallographic study and Hirshfeld surface analysis** A. Saneei, M. Pourayoubi, T. A. Jenny, A. Crochet, K. M. Fromm, E. S. Shchegravina, *Chemical papers* **2017**, *17*, 1809. [DOI: 10.1007/s11696-017-0168-x](https://doi.org/10.1007/s11696-017-0168-x)
- 148- Influence of anions and solvent molecules on the packing and emission spectra of coordination polymers based on silver ions and an anthracene derivative** J. Chen, N. Voutier, J. Rajabi, A. Crochet, D. M. Bassani, K. M. Fromm, *CrysEngComm* **2017**, *19*, 5106-5113. [DOI: 10.1039/C7CE00846E](https://doi.org/10.1039/C7CE00846E)
- 147- Model peptide studies of Ag<sup>+</sup> binding sites from the silver resistance protein SilE** V. Chabert, M. Hologne, O. Sénèque, A. Crochet, O. Walker, K. M. Fromm, *Chem. Commun.* **2017**, *53*, 6105--6108. [DOI: 10.1039/c7cc02630g](https://doi.org/10.1039/c7cc02630g)
- 146- Quantitative Nano-characterization of Polymers Using Atomic Force Microscopy** M. Radiom, S. Kozhuharov, P. Kong, M. di Giannantonio, M. Ayer, P. Maroni, A. F. M. Kilbinger, K. M. Fromm, C. Weder, M. Borkovec, *Chimia* **2017**, *71(4)*, 195-198. [DOI: 10.2533/chimia.2017.195](https://doi.org/10.2533/chimia.2017.195) 




- 145- Formation of silver nanoparticles by electron transfer in peptides and c- cytochromes** S. I. Vasylevskyi, S. Kracht, P. Corcosa, K. M. Fromm, B. Giese, M. Füeg, *Angew. Chem. Int. Ed.* **2017**, *56*, 5926–5930. DOI: [10.1002/anie.201702621](https://doi.org/10.1002/anie.201702621)
- 144- Heptacoordinate Co(II) complex: a new architecture for photochemical hydrogen production** F. Lucarini, M. Pastore, S. I. Vasylevskyi, M. Varisco, E. Solari, A. Crochet, K. M. Fromm, F. Zobi, A. Ruggi, *Chem. Eur. J.* **2017**, *23*, 6768-6771, DOI: [10.1002/chem.201701427](https://doi.org/10.1002/chem.201701427)
- 143- Embedding CeO<sub>2</sub> nanocontainers in a TiO<sub>2</sub> coating on glass surfaces** J. Gagnon, R. A. Caruso, and K. M. Fromm, *AIMS Bioengineering* **2017**, *4(1)*, 171-178. DOI: [10.3934/bioeng.2017.1.171](https://doi.org/10.3934/bioeng.2017.1.171) 
- 142- Antimicrobial silver-filled silica nanorattles with low immunotoxicity in dendritic cells** M. Priebe, J. Widmer, N. Suhartha Löwa, S.-L. Abram, I. Mottas, A.-K. Woischnig, P. S. Brunetto, N. Khanna, C. Bourquin, K. M. Fromm, *Nanomedicine: NBM* **2017**, *13(1)*, 11-22. DOI: [10.1016/j.nano.2016.08.002](https://doi.org/10.1016/j.nano.2016.08.002)
- 141- Nanoparticle shapes of LiMnPO<sub>4</sub>, Li<sup>+</sup>-diffusion orientation and diffusion coefficients for high volumetric energy Li<sup>+</sup>-ion cathodes** N.-H. Kwon, H. Yin, T. Vavrova, J. H.-W. Lim, U. Steiner, B. Grobóty, K. M. Fromm, *J. Power Sources* **2017**, *342*, 231-240. DOI: [10.1016/j.jpowsour.2016.11.111](https://doi.org/10.1016/j.jpowsour.2016.11.111)
- 140- Going nano for batteries and drug delivery** S.-L. Abram, J.-P. Brog, P. S. Brunetto, A. Crochet, J. Gagnon, N.-H. Kwon, S. Maharajan, M. Priebe, K. M. Fromm, *Chimia* **2016**, *70(9)*, 661. DOI: [10.2533/chimia.2016.661](https://doi.org/10.2533/chimia.2016.661) 
- 139- Tandem ring-opening-ring-closing metathesis for functional metathesis catalysts** A. A. Nagarkar, M. Yasir, A. Crochet, K. M. Fromm, A. F. M. Kilbinger, *Angew. Chem., Int. Ed.* **2016**, *55*, 12343-12346. DOI: [10.1002/anie.201604112](https://doi.org/10.1002/anie.201604112) 
- 138- Crystal structures of a copper(II) and the isotypic nickel(II) and palladium(II) complexes of the ligand (E)-1-[(2,4,6-tribromophenyl)diazanyl]naphthalen-2-ol** S. Chetioui, D.-A. Rouag, J.-P. Djukic, C. G. Bochet, R. Touzani, C. Bailly, A. Crochet and K. M. Fromm, *Acta Cryst.* **2016**, *72(8)*, 1093-1098. DOI: [10.1107/S205698901601080X](https://doi.org/10.1107/S205698901601080X) 
- 137- Synthesis of new polyether ether ketone derivatives with silver binding site and coordination compounds of their monomers with different silver salts** J. Girard, N. Joset, A. Crochet, M. Tan, A. Holzheu, P. S. Brunetto, K. M. Fromm, *Polymers* **2016**, *8(6)*, 208. DOI: [10.3390/polym8060208](https://doi.org/10.3390/polym8060208)
- 136- Synthesis, characterization, antibacterial activity and cytotoxicity of hollow TiO<sub>2</sub>-coated CeO<sub>2</sub> nanocontainers encapsulating silver nanoparticles for controlled silver release** J. Gagnon, M. J. D. Clift, D. Vanhecke, I. E. Widnersson, S.-L. Abram, A. Petri-Fink,


R. A. Caruso, B. Rothen-Rutishauser, K. M. Fromm, *J. Mater. Chem. B* **2016**, *4*(6), 1166--1174. DOI: [10.1039/c5tb01917f](https://doi.org/10.1039/c5tb01917f)

**135- Mixed metal multinuclear Cr(III) cage compounds and coordination polymers based on unsubstituted phenolate: design, synthesis, mechanism and properties** A.

Crochet, J.-P. Brog, K. M. Fromm, *Cryst. Growth Des.* **2016**, *16*(1), 189-199. DOI: [10.1021/acs.cgd.5b01084](https://doi.org/10.1021/acs.cgd.5b01084)

**134- A thermo- and mechanoresponsive cyano-substituted oligo(p-phenylene vinylene) derivative with five emissive states** Y. Sagara, A. Lavrenova, A. Crochet, Y. C. Simon, K. M. Fromm, C. Weder, *Chem. Eur. J.* **2016**, *22*(13), 4374–4378. DOI: [10.1002/chem.201600272](https://doi.org/10.1002/chem.201600272)

**133- Preventing implant-associated infections by silver coating** R. Kuehl, P. S. Brunetto, A.-K. Woischnig, M. Varisco, Z. Rajacic, J. Vosbeck, L. Terracciano, K. M. Fromm, N. Khanna, *Antimicrob. Agents Chemother.* **2016**, *60*(4), 2467-2475. DOI: [10.1128/AAC.02934-15](https://doi.org/10.1128/AAC.02934-15) 

**132- The first phosphoramidate–mercury(II) complex with a Cl<sub>2</sub> Hg–OP[N(C)(C)]<sub>3</sub> segment** A. Saneei, M. Pourayoubi, A. Crochet, K. M. Fromm, *Acta Crystallogr. C. Struct. Chem.* **2016**, *72*(3), 230-233. DOI: [10.1107/S2053229616002394](https://doi.org/10.1107/S2053229616002394) 

**131- Nanorattles or yolk-shell nanoparticles - definition, synthesis and applications** M. Priebe, K. M. Fromm, *Chem. Eur. J.* **2015**, *21*, 3854-3874. DOI: [10.1002/chem.201405285](https://doi.org/10.1002/chem.201405285)






**130- Synthesis, X-ray structure and DFT calculation of oxido-vanadium(V) complex with a tridentate Schiff base ligand** I. Sheikhshoaie, S. Y. Ebrahimipour, A. Crochet, K. M. Fromm, *Res. Chem. Intermed.* **2015**, *41*(4), 1881-1891. DOI: [10.1007/s11164-013-1317-7](https://doi.org/10.1007/s11164-013-1317-7)





**129- Nanorattles or yolk-shell nanoparticles-What are they, How are they made, and What are they good for?** M. Priebe, K. M. Fromm, *Chem. Eur. J.* **2015**, *21*(10), 3854-3874. DOI: [10.1002/chem.201405285](https://doi.org/10.1002/chem.201405285)



**128- Electron transfer in peptides: on the formation of silver nanoparticles** S. Kracht, M. Messerer, M. Lang, S. Eckhardt, M. Lauz, B. Grobety, K. M. Fromm, B. Giese, *Angew. Chem. Int. Ed.* **2015**, *54*(10), 2912-2916. DOI: [10.1002/anie.201410618](https://doi.org/10.1002/anie.201410618)

**127- Controlled tautomeric switching in azonaphthols tuned by substituents on the phenyl ring** L. Antonov, V. Deneva, S. Simeonov, V. Kurteva, A. Crochet, K. M. Fromm, B. Shivachev, R. Nikolova, M. Savarese, C. Adamo, *ChemPhysChem*, **2015**, *16*(3), 649-657. DOI: [10.1002/cphc.201402691](https://doi.org/10.1002/cphc.201402691)

**126- cis-Dioxido-molybdenum(VI) complexes of tridentate ONO hydrazone Schiff base: synthesis, characterization, X-ray crystal structure, DFT calculation and catalytic activity** S. Y. Ebrahimipour, H. Khabazadeh, J. Castro, I. Sheikhshoaie, A. Crochet, K. M. Fromm, *Inorg. Chem. Acta* **2015**, *427*, 52-61. DOI: [10.1016/j.ica.2014.11.023](https://doi.org/10.1016/j.ica.2014.11.023)

- 125- 4-Hydroxy-1-naphthaldehydes: proton transfer or deprotonation** Y. Manolova, V. Kurteva, L. Antonov, H. Marciniak, S. Lochbrunner, A. Crochet, K. M. Fromm, F. S. Kamounah, P. E. Hansen, *Phys. Chem. Chem. Phys.* **2015**, *17*(15), 10238-10249. DOI: [10.1039/C5CP00870K](https://doi.org/10.1039/C5CP00870K) 
- 124- Toxicity and protective effects of cerium oxide nanoparticles (nanoceria) depending on their preparation method, particle size, cell type, and exposure route** J. Gagnon, K. M. Fromm, *Eur. J. Inorg. Chem.* **2015**, *27*, 4510-4517. DOI: [10.1002/ejic.201500643](https://doi.org/10.1002/ejic.201500643)
- 123- Towards cardiolite-inspired carbon monoxide releasing molecules - reactivity of d<sup>4</sup>, d<sup>5</sup> rhenium and d<sup>6</sup> manganese carbonyl complexes with isocyanide ligands** E. Kottelat, V. Chabert, A. Crochet, K. M. Fromm, F. Zobi, *Eur. J. Inorg. Chem.* **2015**, *34*, 5628-5638. DOI: [10.1002/ejic.201500756](https://doi.org/10.1002/ejic.201500756)
- 122- Layer-by-layer grown scalable redox-active ruthenium-based molecular multilayer thin films for electrochemical applications and beyond** V. Kaliginedi, H. Ozawa, A. Kuzume, S. Maharajan, I. V. Pobelov, N.-H. Kwon, M. Mohos, P. Broekmann, K. M. Fromm, M.-A. Haga, T. Wandlowski, *Nanoscale* **2015**, *7*(42), 17685-17692. DOI: [10.1039/c5nr04087f](https://doi.org/10.1039/c5nr04087f) 
- 121- Nanomaterials meet Li-ion batteries** N.-H. Kwon, J.-P. Brog, S. Maharajan, A. Crochet, K. M. Fromm, *Chimia* **2015**, *69*(12), 734-736. DOI: [10.2533/chimia.2015.734](https://doi.org/10.2533/chimia.2015.734) 
- 120- Construction of polynuclear lanthanide (Ln = Dy<sup>III</sup>, Tb<sup>III</sup>, and Nd<sup>III</sup>) cage complexes using pyridine-pyrazole-based ligands: versatile molecular topologies and SMM behavior** S. Bala, M. S. Bishwas, B. Pramanik, S. Khanra, K. M. Fromm, P. Poddar, R. Mondal, *Inorg. Chem.* **2015**, *54* (17), 8197-8206. DOI: [10.1021/acs.inorgchem.5b00334](https://doi.org/10.1021/acs.inorgchem.5b00334)
- 119- Integrating silver compounds and nanoparticles into ceria nanocontainers for antimicrobial applications** J. Gagnon, M. J. D. Clift, D. Vanhecke, D. A. Kuhn, P. Weber, A. Petri-Fink, B. Rothen-Rutishauser, K. M. Fromm, *J. Mat. Chem. B* **2015**, *3*(9), 1760-1768. DOI: [10.1039/C4TB02079K](https://doi.org/10.1039/C4TB02079K) 
- 118- Structures of alkali and alkaline earth metal clusters with oxygen donor ligands** K. M. Fromm, E. D. Gueneau, *Polyhedron* **2004**, *23*(9), 1479-1504. DOI: [10.1016/j.poly.2004.04.014](https://doi.org/10.1016/j.poly.2004.04.014)
- 117- Investigation on the growth and characterization of novel creatinium malate single crystal** S. Mathuri, M. Kayalvizhi, G. Vasuki, R. Ramesh Babu, K. Ramamurthi, A. Crochet, K. M. Fromm, *Chem. Sci. Rev. Lett.* **2014**, *3*(12), 1208-1218. ISSN [2278-6783](https://doi.org/10.1002/ppsc.201300304) 
- 116- One-pot synthesis and catalytic properties of encapsulated silver nanoparticles in silica nanocontainers** M. Priebe, K. M. Fromm, *Particles and Particle Systems Characterization* **2014**, *31*(6), 645-651. DOI: [10.1002/ppsc.201300304](https://doi.org/10.1002/ppsc.201300304)

- 115- New antimicrobial and biocompatible implant coating with synergic silver–vancomycin conjugate action** M. Varisco, N. Khanna, P. S. Brunetto, K. M. Fromm, *ChemMedChem*. **2014**,9(6), 1221-1230. [DOI: 10.1002/cmdc.201400072](https://doi.org/10.1002/cmdc.201400072)
- 114- Impact of composite structure and morphology on electronic and ionic conductivity of carbon contained LiCoO<sub>2</sub> cathode** N.-H. Kwon, H. Yin, P. Brodard, C. Sugnaux, K. M. Fromm, *Electrochim. Acta* **2014**, 134, 215-221. [DOI:10.1016/j.electacta.2014.04.121](https://doi.org/10.1016/j.electacta.2014.04.121)
- 113- Synthesis, crystal structure and antimicrobial activities of di ((E)-2-(pyridine-2-ylmethylene)hydrazinecarboxamide) cobalt(II) dichloride trihydrate** J. Novina, G. Vasuki, M. Suresh, M. S. A. Padusha, K. M. Fromm, A. Crochet, *Phys. Science Inter. J.* **2014**, 4, 816-824. [DOI: 10.9734/PSIJ/2014/7803](https://doi.org/10.9734/PSIJ/2014/7803) 
- 112- A new mixed-ligand copper(II) complex of (E)-N<sup>2</sup>-(2-hydroxybenzylidene)acetohydrazide: synthesis, characterization, NLO behavior, DFT calculation and biological activities** S. Y. Ebrahimipour, I. Sheikhshoae, A. Crochet, M. Khaleghi, K. M. Fromm, *J. Mol. Struct.* **2014**, 1072, 267-276. [DOI:10.1016/j.molstruc.2014.05.024](https://doi.org/10.1016/j.molstruc.2014.05.024)
- 111- Nanobio-silver: its interactions with peptides and bacteria, and its uses in medicine** S. Eckhardt, P. S. Brunetto, J. Gagnon, M. Priebe, B. Giese, K. M. Fromm, *Chem. Rev.* **2013**, 113(7), 4708-4754. [DOI: 10.1021/cr300288v](https://doi.org/10.1021/cr300288v)
- 110- Silver coordination compounds with antimicrobial properties** K. M. Fromm, *Appl. Organomet. Chem.* **2013**, 12, 683-687. [DOI: 10.1002/aoc.3047](https://doi.org/10.1002/aoc.3047)
- 109- pH-Dependent coordination of Ag<sup>I</sup> ions by histidine: experiment, theory, and a model for SilE** L. Mirolo, T. Schmidt, S. Eckhardt, M. Meuwly, K. M. Fromm, *Chem. Eur. J.* **2013**, 19(5), 1754-1761. [DOI: 10.1002/chem.201201844](https://doi.org/10.1002/chem.201201844)
- 108- 7-[(Morpholin-4-yl)(phenyl)methyl]quinolin-8-ol** J. J. Novina, G. Vasuki, C. Muthukumar, A. Sabastiyan, A. Crochet, K. M. Fromm, *Acta Cryst.* **2013**, 69(1), o45. [DOI:10.1107/S1600536812049343](https://doi.org/10.1107/S1600536812049343) 
- 107- Ethyl 5-methoxy-2-trifluoromethyl-1H-indol-3-carboxyl-ate** A. Crochet, I. Alimi, C. G. Bochet, K. M. Fromm, *Acta Cryst.* **2013**, 69(3), o339. [DOI:10.1107/S1600536813002614](https://doi.org/10.1107/S1600536813002614) 
- 106- Barium bright and heavy** K. M. Fromm, *Nature Chem.* **2013**, 5(2), 146. [DOI:10.1038/nchem.1551](https://doi.org/10.1038/nchem.1551) 
- 105- Ring a bell: disubstituted calix[4]arene as ligand for transition metal chlorides** A. Crochet, K. M. Fromm, *Polyhedron* **2013**, 52, 610-616. [DOI:10.1016/j.poly.2012.08.004](https://doi.org/10.1016/j.poly.2012.08.004)

- 104- Rings, chains and helices: new antimicrobial silver coordination compounds with (iso-)nicotinic acid derivatives** I. Chevrier, J. L. Sagué, P. S. Brunetto, N. Khanna, Z. Rajacic, K. M. Fromm, *Dalton Trans.* **2013**, 42(1), 217-231. DOI: [10.1039/C2DT31259J](https://doi.org/10.1039/C2DT31259J)
- 103- Kinetics of ion transport through supramolecular channels in single crystals** C. D. Assouma, A. Crochet, Y. Chérémond, B. Giese, K. M. Fromm, *Angew. Chem. Int. Ed.* **2013**, 52(17), 4682-4685. DOI: [10.1002/anie.201208195](https://doi.org/10.1002/anie.201208195)
- 102- CFA-2 and CFA-3 (coordination framework Augsburg University-2 and -3); novel MOFs assembled from trinuclear Cu(I)/Ag(I) secondary building units and 3,3',5,5'-tetraphenyl-bipyrazolate ligands** M. Grzywa, C. Gessner, D. Denysenko, B. Bredenkötter, F. Gschwind, K. M. Fromm, W. Nitek, E. Klemm, D. Volkmer, *Dalton Trans.* **2013**, 42(19), 6909-6921. DOI: [10.1039/C3DT32302A](https://doi.org/10.1039/C3DT32302A)
- 101- Development of a polystyrene sulfonate/silver nanocomposite with self-healing properties for biomaterial applications** J. Girard, P. S. Brunetto, O. Braissant, Z. Rajacic, N. Khanna, R. Landmann, A. U. Daniels, K. M. Fromm, *C. R. Chim.* **2013**, 16(6), 550-556. DOI: [10.1016/j.crci.2013.04.010](https://doi.org/10.1016/j.crci.2013.04.010) 
- 100- Silver coordination polymers with isonicotinic acid derived short polyethylene glycol – Synthesis, structures, anion effect and solution behavior** K. M. Fromm, J. L. Sagué, A. Y. Robin, *Inorg. Chim. Acta* **2013**, 403, 2-8. DOI: [10.1016/j.ica.2012.12.021](https://doi.org/10.1016/j.ica.2012.12.021)
- 99- A family of immobilizable chiral bis(pinenebipyridine) ligands** A. Pöllnitz, R. Skupiński, H. Stoeckli-Evans, A. Crochet, A. Silvestru, K. M. Fromm, O. Mamula, *Synlett* **2013**, 24(19), 2555-2558. DOI: [10.1055/s-0033-1339847](https://doi.org/10.1055/s-0033-1339847)
- 98- Bioinorganic chemistry of silver: its interactions with amino acids and peptides** K. M. Fromm, *Chimia* **2013**, 67(12), 851-854. DOI: [10.2533/chimia.2013.851](https://doi.org/10.2533/chimia.2013.851) 
- 97- Controlled tautomerism – switching caused by an “underground” anionic effect** L. Antonov, V. Deneva, V. Kurteva, D. Nedeltcheva, A. Crochet, K. M. Fromm, *RSC Advances* **2013**, 3(47), 25410-25416. DOI: [10.1039/C3RA45326J](https://doi.org/10.1039/C3RA45326J)
- 96- Polymorphism, what it is and how to identify it: a systematic review** J.-P. Brog, C.-L. Chanez, A. Crochet, K. M. Fromm, *RSC Advances* **2013**, 3(38), 16905-16931. DOI: [10.1039/C3RA41559G](https://doi.org/10.1039/C3RA41559G)
- 95- Tautomerism in 1-phenylazo-4-naphthols: experimental results vs. quantum-chemical predictions** L. Antonov, V. Kurteva, A. Crochet, L. Mirolo, K. M. Fromm, S. Angelova, *Dyes and Pigments* **2012**, 92(1), 714-723. DOI: [10.1016/j.dyepig.2011.06.026](https://doi.org/10.1016/j.dyepig.2011.06.026)
- 94- Switching azonaphthols containing a side chain with limited flexibility. Part 1. Synthesis and tautomeric properties** V. B. Kurteva, L. M. Antonov, D. V. Nedeltcheva, A.

Crochet, K. M. Fromm, R. P. Nikolova, B. L. Shivachev, M. S. Nikiforova, *Dyes and Pigments* **2012**, *92*(3), 1266-1277. [DOI:10.1016/j.dyepig.2011.07.013](https://doi.org/10.1016/j.dyepig.2011.07.013)

**93- Synthesis and characterization of new pentacoordinate iron based aryloxide complexes** Y. Ch er mond, A. Crochet, K. M. Fromm, *Eur. J. Inorg. Chem.* **2012**, *2012*(16), 2725-2730. [DOI: 10.1002/ejic.201101054](https://doi.org/10.1002/ejic.201101054)

**92- Effect of increasing ligand length on the structure of silver complexes** F. Gschwind, K. M. Fromm, *CrystEngComm* **2012**, *14*(11), 4008-4015. [DOI: 10.1039/C2CE25110H](https://doi.org/10.1039/C2CE25110H)

**91- A transparent, flexible, ion conductive, and luminescent PMMA ionogel based on a Pt/Eu bimetallic complex and the ionic liquid [Bmim][N(Tf)<sub>2</sub>]** Z.-L. Xie, H.-B. Xu, A. Gessner, M. U. Kumke, M. Priebe, K. M. Fromm, A. Taubert, *J. Mat. Chem.* **2012**, *22*(16), 8110-8116. [DOI: 10.1039/C2JM15862K](https://doi.org/10.1039/C2JM15862K)

**90- Enhanced electrochemical performance of < 30 nm thin LiMnPO<sub>4</sub> nanorods with a reduced amount of carbon as a cathode for lithium ion batteries** N. H. Kwon, K. M. Fromm, *Electrochim. Acta* **2012**, *69*, 38-44. [DOI:10.1016/j.electacta.2012.02.040](https://doi.org/10.1016/j.electacta.2012.02.040)

**89- Single crystal to single crystal polymorphic phase transition of a silver nitrate 24-crown-8 complex and its pseudo-polymorphism** J. Girard, K. M. Fromm, *CrystEngComm* **2012**, *14*(20), 6487-6491. [DOI: 10.1039/C2CE25875G](https://doi.org/10.1039/C2CE25875G)

**88- The influence of dipole moments on the mechanism of electron transfer through helical peptides** M. Lauz, S. Eckhardt, K. M. Fromm, B. Giese, *PhysChemChemPhys* **2012**, *14*(40), 13785-13788. [DOI: 10.1039/C2CP41159H](https://doi.org/10.1039/C2CP41159H)







**87- A comparative study of (poly)ether adducts of alkaline earth iodides an overview including new compounds** W. Maudez, K. M. Fromm, *Z. Anorg. Allg. Chem.* **2012**, *638*(11), 1810-1819. [DOI: 10.1002/zaac.201200231](https://doi.org/10.1002/zaac.201200231)

**86- Antibacterial properties of nanoparticles** M. J. Hajipour, K. M. Fromm, A. Akbar Ashkarran, D. Jimenez de Aberasturi, I. R. de Larramendi, T. Rojo, V. Serpooshan, W. J. Parak, M. Mahmoudi, *Trends Biotechnol.* **2012**, *30*(10), 499-511. [DOI:10.1016/j.tibtech.2012.06.004](https://doi.org/10.1016/j.tibtech.2012.06.004)

**85- Efficient amine end-functionalization of living ring-opening metathesis polymers** A. A. Nagarkar, A. Crochet, K. M. Fromm, A. F. M. Kilbinger, *Macromolecules* **2012**, *45*(11), 4447-4453. [DOI: 10.1021/ma300602p](https://doi.org/10.1021/ma300602p)



**84- Preparation of imidazolidin-4-ones and their evaluation as hydrolytically cleavable precursors for the slow release of bioactive volatile carbonyl derivatives** A. Trachsel, B. Buchs, G. Godin, A. Crochet, K. M. Fromm, A. Herrmann, *Eur. J. Org. Chem.* **2012**, *14*, 2837-2854. [DOI: 10.1002/ejoc.201200081](https://doi.org/10.1002/ejoc.201200081)



- 83- **Give silver a shine** K. M. Fromm, *Nature Chemistry* **2011**, 3(2), 178.  
[DOI:10.1038/nchem.970](https://doi.org/10.1038/nchem.970) 
- 82- **Electron transfer in peptides: the influence of charged amino acids** J. Gao, P. Müller, M. Wang, S. Eckhardt, M. Lauz, K. M. Fromm, B. Giese, *Angew. Chem., Int. Ed.* **2011**, 50(8), 1926-1930. [DOI: 10.1002/anie.201003389](https://doi.org/10.1002/anie.201003389)
- 81- **In vitro biocompatibility of new silver(I) coordination compound coated-surfaces for dental implant applications** P. S. Brunetto, T. Vig Slenters, K. M. Fromm, *Materials* **2011**, 4, 355-367. [DOI:10.3390/ma4020355](https://doi.org/10.3390/ma4020355)  
- 80- **Polymorph of dibenzo-24-crown-8 and its mercury complex** A. Crochet, E. Kottelat, A. Fleury, M. Neuburger, K. M. Fromm, *Z. Anorg. Allg. Chem.* **2011**, 637(6), 672-675. [DOI: 10.1002/zaac.201100065](https://doi.org/10.1002/zaac.201100065)
- 79- **(E)-1-(4-Methoxyanthracen-1-yl)-2-phenyldiazene** A. Crochet, K. M. Fromm, V. Kurteva, L. Antonov, *Acta Cryst E, Struct Reports Online* **2011**, E67(4), o993. [ISSN 1600-5368](https://doi.org/10.1107/S1600536811000000) 
- 78- **Tetraethylene glycol adducts of alkaline earth halides** F. Gschwind, K. M. Fromm, *Z. Anorg. Allg. Chem.* **2011**, 637(12), 1871-1879. [DOI: 10.1002/zaac.201100192](https://doi.org/10.1002/zaac.201100192)
- 77- **Coordination networks of mercury(II) halides and polyether ligand** A. Crochet, K. M. Fromm, *Z. Anorg. Allg. Chem.* **2011**, 637(14-15), 2089-2092. [DOI: 10.1002/zaac.201100283](https://doi.org/10.1002/zaac.201100283)
- 76- **Nanoencapsulation of anti-microbial drugs** J. Gagnon, P. Weber, K. M. Fromm, *Europ. Cells & Materials* **2011**, 21(2), 49. [ISSN 1473-2262](https://doi.org/10.1002/zaac.201100192)
- 75- **From alkaline earth ion aggregates via transition metal coordination polymer networks towards heterometallic single source precursors for oxidic materials** F. Gschwind, A. Crochet, W. Maudez, K. M. Fromm, *Chimia* **2010**, 64(5), 299-302. [DOI: 10.2533/chimia.2010.299](https://doi.org/10.2533/chimia.2010.299) 
- 74- **Polyether adducts of d-block metal compounds as starting materials for new cluster compounds** A. Crochet, K. M. Fromm, *Z. Anorg. Allg. Chem.* **2010**, 636(8), 1484-1496. [DOI: 10.1002/zaac.201000022](https://doi.org/10.1002/zaac.201000022)
- 73- **Of chains and rings: synthetic strategies and theoretical investigations for tuning the structure of silver coordination compounds and their applications** T. Vig Slenters, J. L. Sagué, P. S. Brunetto, S. Zuber, A. Fleury, L. Mirolo, A. Y. Robin, M. Meuwly, O. Gordon, R. Landmann, A. U. Daniels, and K. M. Fromm, *Materials* **2010**, 3(5), 3407-3429.  
[DOI:10.3390/ma3053407](https://doi.org/10.3390/ma3053407) 



- 72- Tautocrowns: a concept for a sensing molecule with an active side-arm** L. M. Antonov, V. B. Kurteva, S. P. Simeonov, V. V. Deneva, A. Crochet, K. M. Fromm, *Tetrahedron* **2010**, *66*(24), 4292-4297. [DOI:10.1016/j.tet.2010.04.049](https://doi.org/10.1016/j.tet.2010.04.049)
- 71- Silver coordination polymers for prevention of implant infection: thiol interaction, impact on respiratory chain enzymes, and hydroxyl radical induction** O. Gordon, T. Vig. Slenters, P. S. Brunetto, A. E. Villaruz, D. E. Sturdevant, M. Otto, R. Landmann, K. M. Fromm, *Antimicrob. Agents Chemother.* **2010**, *54*(10), 4208-4218. [DOI: 10.1128/AAC.01830-09](https://doi.org/10.1128/AAC.01830-09) 
- 70- Synthesis, X-ray crystal structure, thermal and solution studies of a centrosymmetric metal-organic polymer based on proton transfer methodology** H. Eshtiagh-Hosseini, A. Hassanpoor, N. Alfi, M. Mirzaei, K. M. Fromm, A. Shokrollahi, F. Gschwind, E. Karami, *J. Coord. Chem.* **2010**, *63*(18), 3175-3186. [DOI: 10.1080/00958972.2010.508518](https://doi.org/10.1080/00958972.2010.508518)
- 69- Excimer formation in crystalline and nanostructured coordination polymers** J. Chen, A. Neels, K. M. Fromm, *Chem. Commun.* **2010**, *46*(43), 8282-8284. DOI: [10.1039/C0CC03011B](https://doi.org/10.1039/C0CC03011B)
- 68- On the chemical synthesis of titanium nanoparticles from ionic liquids** A. A. Ayi, V. Khare, P. Strauch, J. Girard, K. M. Fromm, A. Taubert, *Monatshefte für Chemie* **2010**, *141*(12), 1273-1278. [DOI: 10.1007/s00706-010-0403-4](https://doi.org/10.1007/s00706-010-0403-4) 
- 67- A new three dimensional proton transfer compound including citric acid and 2,4,6-triamine-1,3,5-triazine: synthesis, characterization and X-ray crystal structure** H. Eshtiagh-Hosseini, M. Mahjoobizadeh, M. Mirzaei, K. M. Fromm, A. Crochet, *Eur. J. Chem.* **2010**, *1*(3), 179-181. [DOI:10.5155/eurjchem.1.3.179-181.44](https://doi.org/10.5155/eurjchem.1.3.179-181.44)
- 66- Coordination polymer networks: an alternative to classical polymers?** K. M. Fromm, J. L. Sagué, L. Mirolo, *Macromol. Symp.* **2010**, *291-292*, 75-83. [DOI: 10.1002/masy.201050509](https://doi.org/10.1002/masy.201050509)
- 65- Silver-nanoparticle formation in different sizes induced by peptides identified within split-and-mix libraries** K. Belser, T. Vig Slenters, C. Pfumbidzai, G. Upert, L. Mirolo, K. M. Fromm, H. Wennemers, *Angew. Chem. Int. Ed.* **2009**, *48*(20), 3661-3664. [DOI: 10.1002/anie.200806265](https://doi.org/10.1002/anie.200806265)
- 64- The heterometallic clusters of trivalent rare earth metals of [Ln(OPh)<sub>6</sub>{Li(dme)}<sub>3</sub>] with Ln = Eu and Sm** W. Maudez, K. M. Fromm, *Helv. Chim. Acta* **2009**, *92*(11), 2349-2356. [DOI: 10.1002/hlca.200900171](https://doi.org/10.1002/hlca.200900171)
- 63- Solid state tautomerism in 2-((phenylimino)methyl)naphthalene-1-ol** D. Nedeltcheva, F. S. Kamounah, S. Fadhil, L. Mirolo, K. M. Fromm, L. Antonov, *Dyes and Pigments* **2009**, *83*(1), 121-126. [DOI:10.1016/j.dyepig.2009.04.002](https://doi.org/10.1016/j.dyepig.2009.04.002)

- 62- **Multitopic ligand design: a concept for single-source precursors** F. Gschwind, O. Sereda, K. M. Fromm, *Inorg. Chem.* **2009**, *48*(22), 10535-10547. DOI: [10.1021/ic9009064](https://doi.org/10.1021/ic9009064)
- 61- **Getting hooked on supramolecular coordination chemistry** K. M. Fromm, *Chimia* **2009**, *63*(12), 858-859. DOI: [10.2533/chimia.2009.858](https://doi.org/10.2533/chimia.2009.858) 
- 60- **Coordination polymer networks with s-block metal ions** K. M. Fromm, *Coord. Chem. Rev.*, **2008**, *252*(8+9), 856-885. DOI: [10.1016/j.ccr.2007.10.032](https://doi.org/10.1016/j.ccr.2007.10.032)
- 59- **Antimicrobial coatings for implant surfaces** P. S. Brunetto, K. M. Fromm, *Chimia* **2008**, *62*(4), 249-252. DOI: [10.2533/chimia.2008.249](https://doi.org/10.2533/chimia.2008.249) 
- 58- **Silver nanoparticle engineering via oligovaline organogels** A. Manton, A. G. Guex, A. Foelske, L. Mirolo, K. M. Fromm, M. Painsi, A. Taubert, *Soft Matter* **2008**, *4*(3), 606-617. DOI: [10.1039/B712826F](https://doi.org/10.1039/B712826F)
- 57- **Amino acids in iron oxide mineralization: (incomplete) crystal phase selection is achieved even with single amino acids** A. Manton, F. Gozzo, B. Schmitt, W. B. Stern, Y. Gerber, A. Y. Robin, K. M. Fromm, M. Painsi, A. Taubert, *J. Phys. Chem. C* **2008**, *112*(32), 12104-12110. DOI: [10.1021/jp075449u](https://doi.org/10.1021/jp075449u)
- 56- **Silver coordination compounds as light-stable, nano-structured and anti-bacterial coatings for dental implant and restorative materials** T. Vig Slenters, I. Hauser-Gerspach, A. U. Daniels, K. M. Fromm, *J. Mat. Chem.* **2008**, *18*(44), 5359-5362. DOI: [10.1039/B813026D](https://doi.org/10.1039/B813026D)
- 55- **Counterion effect on the formation of coordination polymer networks between AgNO<sub>3</sub> and L (2,2'-oxybis(ethane-2,1-diyl) diisonicotinate). Part 2** J. L. Sagué, M. Meuwly, K. M. Fromm, *CrystEngComm* **2008**, *10*(11), 1542-1549. DOI: [10.1039/B803158D](https://doi.org/10.1039/B803158D)
- 54- **Combating implant infections. Remarks by a women's team** C. R. Arciola, N. Balaban, L. Baldassarri, K. Fromm, G. M. Hansch, U. Obst, E. Presterl, S. Stefani, J. Verran, L. Visai, *The International journal of artificial organs* **2008**, *31*(9), 858-864. ISSN:0391-3988
- 53- **Structure–property relationships: Polymorphism, solvates, and clay behavior in the one-dimensional coordination polymer chains [Ag(L)(NO<sub>3</sub>)](H<sub>2</sub>O)<sub>n</sub>, L = ethanediyl bis(isonicotinate), n = 0, and 2** A. Y. Robin, J. L. Sague Doimeadios, A. Neels, T. Vig Slenters, K. M. Fromm, *Inorg. Chim. Acta* **2007**, *360*(1), 212-220. DOI: [10.1016/j.ica.2006.07.086](https://doi.org/10.1016/j.ica.2006.07.086)
- 52- **Analogy of the coordination chemistry of alkaline earth metal and lanthanide Ln<sup>2+</sup> ions: the isostructural zoo of mixed metal cages [IM(OtBu)<sub>4</sub>{Li(thf)}<sub>4</sub>(OH)] (M=Ca, Sr, Ba, Eu), [MM'<sub>6</sub>(OPh)<sub>8</sub>(thf)<sub>6</sub>] (M=Ca, Sr, Ba, Sm, Eu, M'=Li, Na), and their derivatives with 1,2-dimethoxyethane** W. Maudez, M. Meuwly, K. M. Fromm, *Chem. Eur. J.* **2007**, *13*(29), 8302 – 8316. DOI: [10.1002/chem.200700597](https://doi.org/10.1002/chem.200700597)

- 51- From simple rings to one-dimensional channels with calix[8]arenes, water clusters and alkali metal ions** R. D. Bergougnant, A. Y. Robin, K. M. Fromm, *Tetrahedron* **2007**, *63*(44), 10751-10757. [DOI:10.1016/j.tet.2007.07.048](https://doi.org/10.1016/j.tet.2007.07.048)
- 50- Transport properties of solid state crown ether channel systems** K. M. Fromm, R. D. Bergougnant, *Solid State Sciences* **2007**, *9*(7), 580-587. [DOI:10.1016/j.solidstatesciences.2007.04.012](https://doi.org/10.1016/j.solidstatesciences.2007.04.012)
- 49- Coordination polymer networks with O- and N-donors: what they are, why and how they are made** A. Y. Robin, K. M. Fromm, *Coord. Chem. Rev.* **2006**, *250*(15+16), 2127-2157. [DOI: 10.1016/j.ccr.2006.02.013](https://doi.org/10.1016/j.ccr.2006.02.013)
- 48- Recent advances in tailoring the aggregation of heavier alkaline earth metal halides, alkoxides and aryloxides from non-aqueous solvents** K. M. Fromm, *Dalton Transactions*, **2006**, *43*, 5103-5112. [DOI: 10.1039/B611042H](https://doi.org/10.1039/B611042H)
- 47- Water trapped in dibenzo-18-crown-6: theoretical and spectroscopic (IR, Raman) studies** M. Dulak, R. Bergougnant, K. M. Fromm, H. R. Hagemann, A. Y. Robin, T. A. Wesolowski, *Spectrochim. Acta Mol. Biomol. Spectrosc.* **2006**, *64A*(2), 532-548. [DOI:10.1016/j.saa.2005.07.060](https://doi.org/10.1016/j.saa.2005.07.060)
- 46- [Ag(isonicotinamide)<sub>2</sub>NO<sub>3</sub>]<sub>2</sub>– a stable form of silver nitrate** T. Dorn, K. M. Fromm, C. Janiak, *Aust. J. Chem.* **2006**, *59*(1), 22-25. [DOI: 10.1071/CH05270](https://doi.org/10.1071/CH05270)
- 45- On the coordination behaviour of NO<sub>3</sub><sup>-</sup> in coordination compounds with Ag<sup>+</sup>. Part 1. Solubility effect on the formation of coordination polymer networks between AgNO<sub>3</sub> and L(L = ethanediylbis(isonicotinate) as a function of solvent** A. Y. Robin, J. L. Sagué, K. M. Fromm, *CrystEngComm*, **2006**, *8*, 403-416. [DOI: 10.1039/B517191A](https://doi.org/10.1039/B517191A)
- 44- Di-Benzo-18-crown-6 and its derivatives as ligands in the search for ion channels** K. M. Fromm, R. D. Bergougnant, A. Y. Robin, *Z. Anorg. Allg. Chem.* **2006**, *632*(5), 828-836. [DOI: 10.1002/zaac.200500470](https://doi.org/10.1002/zaac.200500470)
- 43- Substitution reactions on alkaline earth metal iodides: a large anionic Sr<sub>12</sub>-aggregate [ {Sr<sub>6</sub>(O)(μ<sub>3</sub>-I)(I)<sub>2</sub>(O<sup>t</sup>Bu)<sub>7</sub>(thf)<sub>3</sub> }<sub>2</sub>(μ-I)]<sup>-</sup>** W. Maudez, T. Vig-Slenter, L. Mirolo, A. Fleury, K. M. Fromm, *Main Group Chemistry* **2006**, *5*(1), 41-49. [DOI: 10.1080/10241220600841862](https://doi.org/10.1080/10241220600841862)
- 42- Substitution reactions on CaI<sub>2</sub>: synthesis of mixed metal lithium-calcium-phenolates, and cluster transformation as a function of solvent** W. Maudez, D. Häussinger, K. M. Fromm, *Z. Anorg. Allg. Chem.* **2006**, *632*(14), 2295-2298. [DOI: 10.1002/zaac.200600170](https://doi.org/10.1002/zaac.200600170)
- 41- Film-forming polymers containing in the main-chain dibenzo crown ethers with aliphatic (C10-C16), aliphatic-aromatic, or oxyindole spacers** M. G. Zolotukhin, M.C. G. Hernández, A. M. Lopez, L. Fomina, G. Cedillo, A. Nogales, T. Ezquerra, D. Rueda, H. M.

Colquhoun, K. M. Fromm, A. Ruiz-Treviño, M. Ree, *Macromolecules* **2006**, *39*(14), 4696-4703. [DOI: 10.1021/ma052148e](https://doi.org/10.1021/ma052148e)

**40- The first two-dimensional polycatenane: a new type of robust network obtained by Ag-connected one-dimensional polycatenanes** J. L. Sagué, K. M. Fromm, *Cryst. Growth Des.* **2006**, *6*(7), 1566-1568. [DOI: 10.1021/cg060255+](https://doi.org/10.1021/cg060255+)

**39- A structural study of copper(II) carboxylates: crystal structure and physical characterisation of [Cu<sub>2</sub>(2-bromopropanoato)<sub>4</sub>(caffeine)<sub>2</sub>]** F. Valach, M. Melnik, G. Bernardinelli, K. M. Fromm, *J. Chem. Cryst.* **2006**, *36*(9), 571-580. [DOI: 10.1007/s10870-006-9102-8](https://doi.org/10.1007/s10870-006-9102-8)

**38- Recent advances in the chemistry of “clusters” and coordination polymers of alkali, alkaline earth metal and group 11 compounds** K. M. Fromm, E. D. Gueneau, A. Y. Robin, W. Maudez, J. Sague, R. Bergougnant, *Z. Anorg. Allg. Chem.* **2005**, *631*(10), 1725-1740. [DOI: 10.1002/zaac.200500079](https://doi.org/10.1002/zaac.200500079)

**37- Chiral S-1,1'-bi-2-naphthol (S-BINOL) as a synthon for supramolecular hydrogen-bonded {(S-BINOLAT<sup>n-</sup>)(S-BINOL)<sub>n</sub>}-strands with naphthyl-paneled cavities or channels for a Cd(NH<sub>3</sub>)<sub>4</sub>-fragment (n = 2) or [Ag(NH<sub>3</sub>)<sub>2</sub>]<sup>+</sup> (n = 1). Part 2.** B. Paul, C. Näther, K. M. Fromm, C. Janiak, *CrystEngComm.* **2005**, *7*(51), 309–319. [DOI: 10.1039/B502202A](https://doi.org/10.1039/B502202A)

**36- "Hooked on" calix[8]arenes: a (H<sub>2</sub>O)<sub>10</sub>-cluster with an unprecedented structure** R. D. Bergougnant, A. Y. Robin, K. M. Fromm, *Cryst. Growth Des.* **2005**, *5*(5), 1691-1694. [DOI: 10.1021/cg050201k](https://doi.org/10.1021/cg050201k)

**35- Concomitant crystallization of two polymorphs – a ring and a helix: concentration effect on supramolecular polymorphism or isomerism** K. M. Fromm, J. L. Sagué Doimeadios, A. Y. Robin, *Chem. Commun.* **2005**, *36*, 4548-4550. [DOI: 10.1039/B506389B](https://doi.org/10.1039/B506389B)

**34- <sup>∞</sup>[M(μ-O<sub>2</sub>C-C<sub>6</sub>H<sub>4</sub>-CO<sub>2</sub>)(NH<sub>3</sub>)<sub>2</sub>] (M = Cu, Cd; O<sub>2</sub>C-C<sub>6</sub>H<sub>4</sub>-CO<sub>2</sub> = benzene-1,4-dicarboxylate, terephthalate): 1D coordination polymers with strong inter-chain hydrogen bonding** B. Paul, B. Zimmermann, K. M. Fromm, C. Janiak, *Z. Anorg. Allg. Chem.* **2004**, *630*(11), 1650-1654. [DOI: 10.1002/zaac.200400240](https://doi.org/10.1002/zaac.200400240)

**33- Molecular paneling of rac-1,1'-bi-2-naphthol/~ate (BINOL/BINOLAT): hydrogen-bonded assembly of [M(NH<sub>3</sub>)<sub>4</sub>or <sub>6</sub>]<sup>2+</sup> complexes (M = Ni, Zn, Cd) in cavities of {[BINOLAT]<sup>2-</sup>(BINOL)<sub>2</sub>}-strands** B. Paul, C. Näther, B. Walfort, K. M. Fromm, B. Zimmermann, H. Lang, C. Janiak, *CrystEngComm* **2004**, *6*(51), 293-297. [DOI: 10.1039/B410933C](https://doi.org/10.1039/B410933C)

**32- How many structures are there for {[AgL](NO<sub>3</sub>)(H<sub>2</sub>O)<sub>n</sub>}? Water-content dependent variations in the structure of {[AgL](NO<sub>3</sub>)(H<sub>2</sub>O)<sub>n</sub>}, n = 0, 1, 2; L = ethanediyl bis(isonicotinate)** A. Y. Robin, M. Meuwly, K. M. Fromm, H. Goesmann, G. Bernardinelli, *CrystEngComm.* **2004**, *6*(60), 336–343. [DOI: 10.1039/B413232G](https://doi.org/10.1039/B413232G)

- 31- Synthesis and structural analysis of the polymetallated alkali calixarenes**  $[M_4(p\text{-tert-butylcalix[4]arene-4H})(\text{thf})_x]_2 \cdot n \text{ THF}$  ( $M = \text{Li, K}$ ;  $n = 1 \text{ or } 6$ ;  $x = 4 \text{ or } 5$ ) and  $[\text{Li}_2(p\text{-tert-butylcalix[4]arene-2H})(\text{H}_2\text{O})(\mu\text{-H}_2\text{O})(\text{thf})] \cdot 3 \text{ THF}$  E. D. Gueneau, K. M. Fromm, H. Goesmann, *Chem. Eur. J.* **2003**, *9*(2), 509-514. [DOI: 10.1002/chem.200390053](https://doi.org/10.1002/chem.200390053)
- 30- "One-dimensional water" and "one-dimensional acid": synthesis and the unique crystal structure of**  $[(\text{H}_2\text{O})\text{C}(\text{DB18C6})(\mu_2\text{-H}_2\text{O})_{2/2}][(\text{H}_3\text{O})\text{C}(\text{DB18C6})(\mu_2\text{-H}_2\text{O})_{2/2}]\text{I}_3$  (DB18C6 = dibenzo-18-crown-6) K. M. Fromm, E. D. Gueneau, H. Goesmann, C. G. Bochet, *Z. Anorg. Allg. Chem.* **2003**, *629*(4), 597-600. [DOI: 10.1002/zaac.200390101](https://doi.org/10.1002/zaac.200390101)
- 29- Understanding the formation of new clusters of alkali and alkaline earth metals: a new synthetic approach, single crystal structures and theoretical calculations** K. M. Fromm, E. D. Gueneau, G. Bernardinelli, H. Goesmann, J. Weber, M.-J. Mayor-López, P. Boulet, H. Chermette, *J. Am. Chem. Soc.* **2003**, *125*(12), 3593-3604. [DOI: 10.1021/ja0205737](https://doi.org/10.1021/ja0205737)
- 28- Oxygen donor stabilized alkaline earth metal iodides** K. M. Fromm, *Chimia* **2003**, *57*(4), 175-178. CODEN:CHIMAD; ISSN:0009-4293
- 27- Polar molecular precursors for alkali and alkaline earth metal clusters and low-dimensional polymer structures: the solid state structures of**  $[\text{CaI}(\text{dme})_3]\text{I}$ , and  $\text{cis-}[\text{SrI}_2(\text{diglyme})_2]$  (dme =  $\text{CH}_3\text{OC}_2\text{H}_4\text{OCH}_3$ ; diglyme =  $\text{CH}_3(\text{OC}_2\text{H}_4)_2\text{OCH}_3$ ) K. M. Fromm, W. Maudez, *Eur. J. Inorg. Chem.* **2003**, *18*, 3440-3444. [DOI: 10.1002/ejic.200300241](https://doi.org/10.1002/ejic.200300241)
- 26- Structural relationship of two coordination polymers of Cu(I) with the ligand ethanediyl bis(isonicotinate)** A. Y. Robin, K. M. Fromm, H. Goesmann, G. Bernardinelli, *CrystEngComm.* **2003**, *5*(71), 405-410. [DOI: 10.1039/B309410C](https://doi.org/10.1039/B309410C)
- 25- Coordination compounds**  
K. M. Fromm, *Kirk-Othmer Encyclopedia of Chemical Technology*, Copyright © 2003 by John Wiley & Sons, Inc. [DOI: 10.1002/0471238961.0315151801180308.a01.pub2](https://doi.org/10.1002/0471238961.0315151801180308.a01.pub2)
- 24- Electron transfer through bridging molecular structures**  
M. Mayor, M. Büschel, K. M. Fromm, J.-M. Lehn, J. Daub, *Ann. N. Y. Acad. Sci.* **2002**, *960*, 16-28. [DOI: 10.1111/j.1749-6632.2002.tb03022.x](https://doi.org/10.1111/j.1749-6632.2002.tb03022.x)
- 23- Crown ethers as stabilizing ligands for asymmetric coordination: synthesis, crystal structure, and physical properties of**  $[\text{NaC}(\text{DB18C6})\text{I}(\text{thf})]$ ,  $[\text{NaC}(\text{DB18C6})\text{I}(1,3\text{-dioxolane})]$ , and  $[\text{NaC}(\text{DB24C8})\text{I}]$  (DB18C6 = Dibenzo-18-crown-6, DB24C8 = Dibenzo-24-crown-8) K. M. Fromm, E. D. Gueneau, J.-P. Rivera, G. Bernardinelli, H. Goesmann, *Z. Anorg. Allg. Chem.* **2002**, *628*(1), 171-178. [DOI: 10.1002/1521-3749\(200201\)628:1<171::AID-ZAAC171>3.0.CO;2-K](https://doi.org/10.1002/1521-3749(200201)628:1<171::AID-ZAAC171>3.0.CO;2-K)
- 22- Ionic or covalent? Can some first hints be derived from the solid state structures of alkaline earth metal halide adducts?** K. M. Fromm, *CrystEngComm.* **2002**, *4*(57), 318-322. [DOI: 10.1039/B201975M](https://doi.org/10.1039/B201975M)

**21- Recent advances in the chemistry of clusters and inorganic polymers of alkali and alkaline earth metal compounds** K. M. Fromm, *Chimia* **2002**, *56*(12), 676-680.

[CODEN:CHIMAD; ISSN:0009-4293](#) 

**20- Electron transfer through molecular bridges between reducible pentakis(thiophenyl)benzene subunits** M. Mayor, M. Büschel, K. M. Fromm, J.-M. Lehn, J. Daub, *Chem. Eur. J.* **2001**, *7*(6), 1266-1272. [DOI: 10.1002/1521-3765\(20010316\)7:6<1266::AID-CHEM1266>3.0.CO;2-S](#)

**19- Hydrogen-bonding and metal-ion mediated self-assembly of a nanoporous crystal lattice** D. G. Kurth, K. M. Fromm, J.-M. Lehn, *Eur. J. Inorg. Chem.* **2001**, (6), 1523-1526. [DOI: 10.1002/1099-0682\(200106\)2001:6<1523::AID-EJIC1523>3.0.CO;2-2](#)


**18- A logical concept of structure prediction derived from supramolecular polymers of alkaline earth metal halides formed by hydrogen bonding and complexation of the metal ion.** K. M. Fromm, *Chem. Eur. J.* **2001**, *7*(10), 2236-2244. [DOI: 10.1002/1521-3765\(20010518\)7:10<2236::AID-CHEM2236>3.0.CO;2-S](#)

**17- Synthesis and crystal structure of the one-dimensional polymer compound  ${}^1_{\infty}\{\text{Ba}(\text{OTf})_2(\text{thf})_3\}_2[\text{Ba}(\text{OTf})_2(\text{thf})_2]\}$  (OTf = CF<sub>3</sub>SO<sub>3</sub><sup>-</sup>) - excerpts from a three-dimensional structure as an access to new materials?.** K. M. Fromm, G. Bernardinelli, *Z. Anorg. Allg. Chem.* **2001**, *627*(7), 1626-1630. [DOI: 10.1002/1521-3749\(200107\)627:7<1626::AID-ZAAC1626>3.0.CO;2-Q](#)



**16- Similar coordination – different dimensionality: synthesis, single crystal structures and theoretical studies of hydrogen-bonded  $\{[\text{Ca}(\text{H}_2\text{O})_2\text{L}_4]\text{I}_2\}_{n/\infty}$  (1: L = CH<sub>3</sub>COOC<sub>2</sub>H<sub>5</sub>; 2: L = OC<sub>4</sub>H<sub>8</sub>).** K. M. Fromm, G. Bernardinelli, M.-J. Mayor-Lopez, J. Weber, H. Goesmann, *Z. Anorg. Allg. Chem.* **2000**, *626*(7), 1685-1691. [DOI: 10.1002/1521-3749\(200007\)626:7<1685::AID-ZAAC1685>3.0.CO;2-M](#)

**15- Multiple expression of molecular information: enforced generation of different supramolecular inorganic architectures by processing of the same ligand information through specific coordination algorithms.** D. P. Funeriu, J.-M. Lehn, K. M. Fromm, D. Fenske, *Chem. Eur. J.* **2000**, *6*(12), 2103-2111. [DOI: 10.1002/1521-3765\(20000616\)6:12<2103::AID-CHEM2103>3.0.CO;2-S](#)

**14- H-bonded polymer structures of different dimensionality: syntheses and crystal structures of  $[\text{Ca}(\text{DME})_n(\text{H}_2\text{O})_m]\text{I}_2 \cdot (\text{DME})_x$  (1:  $n=3, m=3, x=1$ ; 2:  $n=2, m=4, x=0$ ) and  $[\text{Ca}\{\text{CH}_3(\text{OCH}_2)_3\text{OCH}_3\}(\text{H}_2\text{O})_4]\text{I}_2$ .** K. M. Fromm, H. Goesmann, G. Bernardinelli, *Polyhedron* **2000**, *19*(15), 1783-1789. [DOI: 10.1016/S0277-5387\(00\)00466-6](#)

**13- On the way to sol-gels: an analysis of the intra- and intermolecular hydrogen bonding in  $[\text{Ba}(\text{OH})\text{I}(\text{H}_2\text{O})_4]$ .** K. M. Fromm, H. Goesmann, *Acta Cryst. Sect. C* **2000**, *C56*(10), 1179-1180. [DOI: 10.1107/S0108270100009586](#) 



- 12- **Synthesis and crystal structure of [Ba(O<sup>t</sup>Bu)<sub>4</sub>{Li(thf)<sub>4</sub>(OH)}]: a mixed ligand heterometallic cluster with an unusual low coordination number for barium.** K. M. Fromm, E. D. Gueneau, H. Goesmann, *Chem. Commun.* **2000**, (22), 2187-2188. DOI: [10.1039/B005638N](https://doi.org/10.1039/B005638N)
- 11- **Synthesis and crystal structure of Li[{Ca<sub>7</sub>(μ<sub>3</sub>-OH)<sub>8</sub>I<sub>6</sub>(thf)<sub>12</sub>}<sub>2</sub>(μ-I)]·3THF, a unique H-bound dimer of a Ca<sub>7</sub>-cluster on the way to sol-gels.** K. M. Fromm, *Chem. Comm.* **1999**, 17, 1659-1660. DOI: [10.1039/A904560K](https://doi.org/10.1039/A904560K) 
- 10- **Toposelective and chiroselective self-assembly of [2×2] grid-type inorganic arrays containing different octahedral metallic centers.** D. M. Bassani, J.-M. Lehn, K. M. Fromm, D. Fenske, *Angew. Chem. Int. Ed. Engl.* **1998**, 37(17), 2364-2367. DOI: [10.1002/\(SICI\)1521-3773\(19980918\)37:17<2364::AID-ANIE2364>3.0.CO;2-7](https://doi.org/10.1002/(SICI)1521-3773(19980918)37:17<2364::AID-ANIE2364>3.0.CO;2-7)
- 9- **Structural evolution from the solid state to the molecule for BaI<sub>2</sub> : synthesis and crystal structures of [BaI<sub>2</sub>(μ<sub>2</sub>-OH<sub>2</sub>)<sub>2</sub>]<sub>3/∞</sub>, [BaI<sub>2</sub>(μ<sub>2</sub>-OH<sub>2</sub>)(OC<sub>3</sub>H<sub>6</sub>)]<sub>2/∞</sub>, [BaI<sub>2</sub>(thf)<sub>3</sub>]<sub>1/∞</sub>, and [BaI<sub>2</sub>(thf)<sub>5</sub>] · THF.** K. M. Fromm, *Angew. Chem.* **1998**, 109(24), 2876-2878; *Angew. Chem. Int. Ed. Engl.* **1998**, 36(24), 2799-2801. DOI: [10.1002/anie.199727991](https://doi.org/10.1002/anie.199727991)
- 8- **Organometallic tantalum complexes with phosphine, phosphanido and phosphinidene ligands. Syntheses and crystal structures of [Cp<sup>o</sup>TaCl<sub>4</sub>[PH<sub>2</sub>(2, 4, 6-Pr<sup>i</sup><sub>3</sub>C<sub>6</sub>H<sub>2</sub>)]], [Cp<sup>o</sup>Ta(μ-PPh<sub>2</sub>)(PPh<sub>2</sub>)<sub>2</sub>·C<sub>7</sub>H<sub>8</sub>] and [Cp<sup>o</sup>TaCl[μ-P(2, 4, 6-Pr<sup>i</sup><sub>3</sub>C<sub>6</sub>H<sub>2</sub>)]]<sub>2</sub>·C<sub>7</sub>H<sub>8</sub>(Cp<sup>o</sup> = C<sub>5</sub>H<sub>4</sub>Me).** G. A. Abdul Hadi, K. M. Fromm, S. Blaurock, S. Jelonek, E. Hey-Hawkins, *Polyhedron* **1997**, 16(4), 721-731. DOI: [10.1016/0277-5387\(96\)00269-0](https://doi.org/10.1016/0277-5387(96)00269-0)
- 7- **Reducible nanoscale molecular rods based on diacetylene-linked poly(phenylthio)-substituted benzenes.** M. Mayor, J.-M. Lehn, K. M. Fromm, D. Fenske, *Angew. Chem. Int. Ed. Engl.* **1997**, 36(21), 2370-2372. DOI: [10.1002/anie.199723701](https://doi.org/10.1002/anie.199723701)
- 6- **Zintl anions as starting compounds for the synthesis of polynuclear transition metal complexes.** R. Ahlrichs, D. Fenske, K. M. Fromm, H. Krautscheid, U. Krautscheid, O. Treutler, *Chem. Eur. J.* **1996**, 2(2), 238-244. DOI: [10.1002/chem.19960020217](https://doi.org/10.1002/chem.19960020217)
- 5- **Mixed-valence dinuclear molybdenum complexes: synthesis and molecular structure of (Cp<sup>o</sup>Mo)<sub>2</sub>(μ-Cl)<sub>n</sub>(μ-PPh<sub>2</sub>)<sub>3-n</sub> (n=1, 0; Cp<sup>o</sup> = η<sup>5</sup>-C<sub>5</sub>Me<sub>4</sub>Et).** E. Hey-Hawkins, K. M. Fromm, *Polyhedron* **1995**, 14(15/16), 2027-2035. DOI: [10.1016/0277-5387\(95\)00040-Y](https://doi.org/10.1016/0277-5387(95)00040-Y)
- 4- **Synthesis and molecular structures of molybdenum complexes with phosphido, diphosphanyland diphosphene ligands.** E. Hey-Hawkins, K. M. Fromm, *Polyhedron* **1995**, 14(20/21), 2825-2834. DOI: [10.1016/0277-5387\(95\)00220-M](https://doi.org/10.1016/0277-5387(95)00220-M)
- 3- **Synthesis and molecular structures of the molybdenum(II) complexes MoCl<sub>2</sub>(PMe<sub>3</sub>)<sub>2</sub> and [Mo(μ-PPh<sub>2</sub>)(PPh<sub>2</sub>)(PMe<sub>3</sub>)]<sub>2</sub>.** K. M. Fromm, M. Plaikner, E. Hey-Hawkins, *Z. Naturforsch.* **1995**, 50(6), 894-898. DOI: [10.1515/znb-1995-0610](https://doi.org/10.1515/znb-1995-0610) 



2- Reaction of cyclopentadienyl substituted molybdenum (V) tetrachlorides with LiPH(2,4,6-Bu<sup>t</sup><sub>3</sub>C<sub>6</sub>H<sub>2</sub>) and KPPH<sub>2</sub>(dioxane)<sub>2</sub>. Crystal structures of [Cp<sup>0</sup>Mo(μ-Cl)<sub>2</sub>]<sub>2</sub> and [CpMo<sub>2</sub>(μ-Cl)<sub>3</sub>(μ-PPh<sub>2</sub>)] (Cp<sup>0</sup> = C<sub>5</sub>Me<sub>4</sub>Et). K. M. Fromm, E. Hey-Hawkins, *Z. anorg. allg. Chem.* **1993**, 619(2), 261-270. DOI: [10.1002/zaac.19936190207](https://doi.org/10.1002/zaac.19936190207)

1- Synthesis and crystal structure of meso-(1,2,3-tricyclohexyltriphosphine-1,3-diyl)zirconocene (IV), [cyclic] Cp<sub>2</sub>Zr(PCy-PCy-PCy) (Cp = η<sup>5</sup>-C<sub>5</sub>H<sub>5</sub> ; Cy = C<sub>6</sub>H<sub>11</sub>). K. M. Fromm, G. Baum, E. Hey-Hawkins, *Z. anorg. allg. Chem.* **1992**, 615, 35-38. DOI: [10.1002/zaac.19926150907](https://doi.org/10.1002/zaac.19926150907)

## Patents

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K. M. Fromm, P. S. Brunetto: **Antimicrobial silver complex coated surface**, March 31st, 2016, N° WO 2016046725

K. M. Fromm, A. Crochet, J.-P. Brog: **Lithium metal aryloxide clusters as starting products for oxide materials**, January 5th 2012, N°WO 2012000123

K. M. Fromm, C. Bochet: **Sensor**, April 26th, 2010, PCT/EP2011/068563