

# Publications

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## Articles in peer review journals

2001

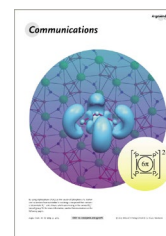
1. F. Kraus, B. Haenig, A. Kispert,  
**Cloning and expression analysis of the mouse T-box gene *Tbx18*,**  
*Mech. Dev.* **2001**, *100*, 83-86, [PDF](#)
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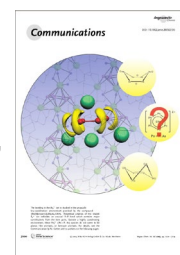
3. F. Kraus, J. Breu,  
**Arene-arene stacking in the revised structure of 2,2'-bipyridinium hexafluorophosphate,**  
*Acta Crystallogr., Sect. C: Cryst. Struct. Commun.* **2002**, *58*, o254-o256, [PDF](#)
4. B. Haenig, C. Schmidt, F. Kraus, M. Pfordt, A. Kispert,  
**Cloning and expression analysis of the chick ortholog of TBX22, the gene mutated in X-linked cleft palate and ankyloglossia,**  
*Mech. Dev.* **2002**, *117*, 321-325, [PDF](#)
5. J. Breu, W. Seidl, D. Huttner, F. Kraus,  
**Nucleation-Controlled Crystallization of a New, Spontaneously Resolved Solvate of [Ru(bpy)<sub>3</sub>](PF<sub>6</sub>)<sub>2</sub> and its Desolvation Reaction,**  
*Chem. - Eur. J.* **2002**, *8*, 4454-4460, [PDF](#)

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6. F. Kraus, J. C. Aschenbrenner, N. Korber,  
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*Angew. Chem.* **2003**, *42*, 4162-4165, [PDF](#),  
*Angew. Chem. Int. Ed.* **2003**, *42*, 4030-4033, [PDF](#)



7. F. Kraus, B. Albert,  
**Synthesis and Crystal Structure of Cesium Hexamminesodium Decahydro-c/oso-decaborate-Ammonia(1/1),**  
**Cs[Na(NH<sub>3</sub>)<sub>6</sub>][B<sub>10</sub>H<sub>10</sub>]·NH<sub>3</sub>,**  
*Z. Anorg. Allg. Chem.* **2005**, 631, 152-154, [PDF](#)
8. T. Hanauer, F. Kraus, N. Korber,  
**Synthesis and Crystal Structure of Tetraamminelithium-Rubidiumtriselenide Li(NH<sub>3</sub>)<sub>4</sub>RbSe<sub>3</sub>, and Pentaamminesodium-Rubidiumtriselenide-Ammonia(1/3),**  
**Na(NH<sub>3</sub>)<sub>5</sub>RbSe<sub>3</sub>·3NH<sub>3</sub>,**  
*Chem. Month.* **2005**, 136, 119-125, [PDF](#)
9. F. Kraus, N. Korber,  
**K<sub>2</sub>Li(NH<sub>2</sub>)<sub>3</sub> and K<sub>2</sub>Na(NH<sub>2</sub>)<sub>3</sub>—synthesis and crystal structure of two crystal-chemically isotypic mixed-cationic amides,**  
*J. Solid State Chem.* **2005**, 178, 1241-1246, [LINK](#)
10. F. Kraus, N. Korber,  
**Hydrogen Bonds in Potassium Amide-Ammonia(1/2),**  
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**Isolated *cyclo*-Tetraarsendiide Anions: Synthesis and Crystal Structure of Bis(tetraamminelithium) tetraarsenide  $[Li(NH_3)_4]_2As_4$ , Bis(pentaamminesodium) tetraarsenide – ammonia (1/3)  $[Na(NH_3)_5]_2As_4 \cdot 3NH_3$  and Bis[(4,7,13,16,21,24-Hexaoxa-1,10-diazabicyclo[8.8.8]hexacosane)(cesium, rubidium) tetraarsenide – ammonia (1/2)  $[Cs_{0.35}Rb_{0.65}(2,2,2-crypt)]_2As_4 \cdot 2NH_3$ ,**  
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**Nature of the chemical bond in polypnictides: the lonepair aromatic anions  $P_4^{2-}$  and  $As_4^{2-}$ ,**  
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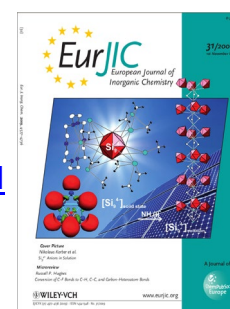
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 **$[Au_3Ge_{18}]^{5-}$  - ein Gold-Germanium-Cluster mit bemerkenswerten Au-Au-Wechselwirkungen,**  
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**The Reactions of Silver, Zirconium, and Hafnium Fluorides with Liquid Ammonia: Synthesis and Crystal Structures of  $\text{Ag}(\text{NH}_3)_2\text{F}\cdot 2\text{NH}_3$ ,  $[\text{M}(\text{NH}_3)_4\text{F}_4]\cdot \text{NH}_3$  ( $M = \text{Zr}, \text{Hf}$ ), and  $(\text{N}_2\text{H}_7)\text{F}$ ,**  
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 **$\text{Na}_6\text{ZnSn}_2$ ,  $\text{Na}_{4.24}\text{K}_{1.76(1)}\text{ZnSn}_2$ , and  $\text{Na}_{20}\text{Zn}_8\text{Sn}_{11}$ : Three Intermetallic Structures Containing the Linear  $\{\text{Sn}-\text{Zn}-\text{Sn}\}^{6-}$  Unit,**  
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**Beryllium Diammine Difluoride  $[\text{BeF}_2(\text{NH}_3)_2]$ ,**  
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**Hydrogen Polyphosphides  $\text{P}_3\text{H}_2^{3-}$  and  $\text{P}_3\text{H}_3^{2-}$ : Synthesis and Crystal Structure of  $\text{K}_3(\text{P}_3\text{H}_2)\cdot 2.3\text{NH}_3$ ,  $\text{Rb}_3(\text{P}_3\text{H}_2)\cdot \text{NH}_3$ ,  $[\text{Rb}(18\text{-crown-6})]_2(\text{P}_3\text{H}_3)\cdot 7.5\text{NH}_3$ , and  $[\text{Cs}(18\text{-crown-6})]_2(\text{P}_3\text{H}_3)\cdot 7\text{NH}_3$ ,**  
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24. F. Kraus, S. A. Baer,  
 **$\text{UF}_6$  and  $\text{UF}_4$  in liquid ammonia:  $[\text{UF}_7(\text{NH}_3)]^{3-}$  and  $[\text{UF}_4(\text{NH}_3)_4]$ ,**  
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25. S. Joseph, C. Suchentrunk, F. Kraus, N. Korber,  
 **$\text{Si}_9^{4-}$  Anions in Solution – Structures of the Solvates  $\text{Rb}_4\text{Si}_9\cdot 4.75\text{NH}_3$  and  $[\text{Rb}(18\text{-crown-6})]_3\text{Rb}_3\text{Si}_9\cdot 4\text{NH}_3$ , and Chemical Bonding in  $\text{Si}_9^{4-}$ ,**  
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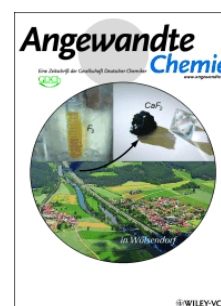
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**The First Ammoniates of Alkali Metal Fluorides: Cesium Fluoride Ammonia (3/4) [Cs<sub>3</sub>F<sub>3</sub>(NH<sub>3</sub>)<sub>4</sub>] and Ammonium Cesium Difluoride [NH<sub>4</sub>CsF<sub>2</sub>],**  
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28. M. Waibel, F. Kraus, S. Scharfe, B. Wahl, T. F. Fässler,  
**[(MesCu)<sub>2</sub>(η<sup>3</sup>-Si<sub>4</sub>)]<sup>4-</sup>: A Mesitylcopper-Stabilized Tetrasilicide Tetraanion,**  
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**Zintl-Ionen, Käfigverbindungen und intermetalloide Cluster der Elemente der 14. und 15. Gruppe,**  
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30. F. Kraus, S. A. Baer, A. J. Karttunen,  
**The Complex Amide  $K_2[Zr(NH_2)_6]$ ,**  
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31. J. Tong, F. Kraus, J. Köhler, A. Simon, J. Liu, M.-W. Whangbo,  
**Dimers of  $Ag^{2+}$  Ions – Synthesis and Characterization of the Quaternary Silver Fluoride  $Ag_2ZnZr_2F_{14}$  with  $[Ag_2F_7]^{3-}$  Units,**  
*Z. Anorg. Allg. Chem.* **2011**, *637*, 1118-1121, [PDF](#)
32. F. Kraus,  
**Caesium Tetrachlorido Aurate(III),  $CsAuCl_4$ ,**  
*Z. Naturforsch.* **2011**, *66b*, 871-872, [PDF](#)
33. F. Kraus, S. A. Baer,  
**Tetraammine Tetrafluorido Cerium(IV) Ammonia (1/1),  $[CeF_4(NH_3)_4] \cdot NH_3$ ,**  
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34. F. Kraus, S. A. Baer,  
**mer-Triammine Trifluorido Iron(III),  $mer-[FeF_3(NH_3)_3]$ ,**  
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35. M. B. Fichtl, L. M. Scherf, S. A. Baer, F. Kraus,  
 **$\mu$ -Oxido-bis(pentammineisen(III))-tetrachlorid-Ammoniak(1/8)  $[Fe_2(\mu-O)(NH_3)_{10}]Cl_4 \cdot 8NH_3$ ,**  
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**Elements of Metabolic Evolution**,  
*Chem. - Eur. J.* **2012**, *18*, 2063-2080, [PDF](#)
37. F. Kraus, S. A. Baer, M. R. Buchner, A. J. Karttunen,  
**Reactions of Beryllium Halides in Liquid Ammonia: The Tetraammine Beryllium Cation  $[\text{Be}(\text{NH}_3)_4]^{2+}$ , its Hydrolysis Products, and the Action of  $\text{Be}^{2+}$  as a Fluoride Ion Acceptor**,  
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**Otto Ruff and a Fluoride that changed the World in many Ways:  $\text{UF}_6$** ,  
*Z. Anorg. Allg. Chem.* **2012**, *638*, 707-709, [PDF](#)
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**Dissolving the Insoluble:  $\text{CdF}_2$  and moist Ammonia form Cadmium(II) Difluoride Monohydrate – Synthesis and Crystal Structure of  $[\text{Cd}(\text{NH}_3)_6]\text{F}_2 \cdot \text{H}_2\text{O}$** ,  
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40. M. R. Buchner, F. Kraus, H. Schmidbaur,  
**Pyrophosphate Complexation of Tin(II) in Aqueous Solutions as Applied in Electrolytes for the Deposition of Tin and Tin Alloys such as White Bronze**,  
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42. F. Kraus,  
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*Biolnorganic React. Mech.* **2012**, *8(1-2)*, 29-39, [PDF](#)
43. J. Schmedt auf der Günne, M. Mangstl, F. Kraus,  
**Occurrence of Difluorine  $\text{F}_2$  in Nature - In Situ Proof and Quantification**,  
*Angew. Chem.* **2012**, *124*, 7968-7971, [PDF](#)  
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44. L. M. Scherf, S. A. Baer, F. Kraus, S. M. Bawaked, H. Schmidbaur  
**Implications of the crystal structure of the ammonia solvate**  
**[Au(NH<sub>3</sub>)<sub>2</sub>]Cl·4NH<sub>3</sub>,**  
*Inorg. Chem.* **2013**, *52*, 2157-2161, [PDF](#)
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**Closo-Hydroborates from liquid Ammonia: Synthesis and Crystal**  
**Structures of [Li(NH<sub>3</sub>)<sub>4</sub>]<sub>2</sub>[B<sub>12</sub>H<sub>12</sub>]·2NH<sub>3</sub>, Rb<sub>2</sub>[B<sub>12</sub>H<sub>12</sub>]·8NH<sub>3</sub>,**  
**Cs<sub>2</sub>[B<sub>12</sub>H<sub>12</sub>]·6NH<sub>3</sub> and Rb<sub>2</sub>[B<sub>10</sub>H<sub>10</sub>]·5NH<sub>3</sub>.**  
*Inorg. Chem.* **2013**, *52*, 4692-4699, [PDF](#)
46. F. Kraus, S. A. Baer, M. Hoelzel, A.J. Karttunen,  
**[Be(ND<sub>3</sub>)<sub>4</sub>]Cl<sub>2</sub>: Synthesis, Characterization, and Space Group**  
**Determination guided by Solid-State Quantum Chemical**  
**Calculations,**  
*Eur. J. Inorg. Chem.* **2013**, 4184-4190, [PDF](#)
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**Tetrafluorobromates for Urban Mining of Noble Metals – A Case**  
**Study on Iridium Metal,**  
*Eur. J. Inorg. Chem.* **2013**, 4984-4987, [PDF](#)
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J. Eppinger,  
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**complexes with pendant protein reactive markers,**  
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**Borate-Phosphate U<sub>2</sub>[BO<sub>4</sub>][PO<sub>4</sub>],**  
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*Inorg. Chem.* **2013**, *52*, 9669-9674, [DOI](#)
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**On Tetrafluorobromates(III): Crystal Structures of the Dibromate**  
**CsBr<sub>2</sub>F<sub>7</sub> and the Monobromate CsBrF<sub>4</sub>,**  
*Z. Anorg. Allg. Chem.* **2013**, 639, 2846-2850, [DOI](#)
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**Synthesis and Crystal Structure of Triammine Pentafluorido**  
**Tantalum(V) [TaF<sub>5</sub>(NH<sub>3</sub>)<sub>3</sub>],**  
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**High-pressure Synthesis and Characterization of the new Actinide Borates  $AnB_4O_8$  ( $An = Th, U$ ),**  
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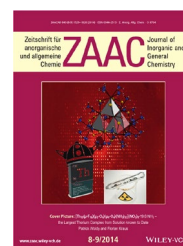
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**The Diammine Silver(I) Acetate  $[Ag(NH_3)_2]OAc$ ,**  
*Z. Anorg. Allg. Chem.* **2013**, *639*, 2643-2647, [DOI](#)

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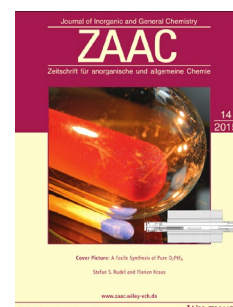
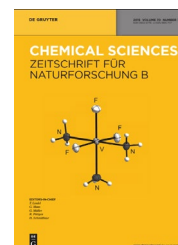


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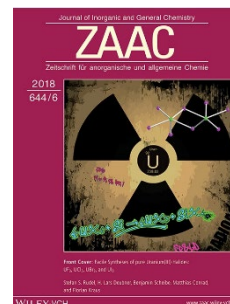
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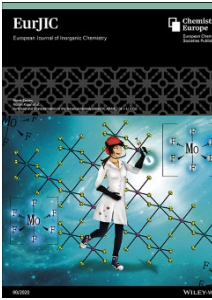
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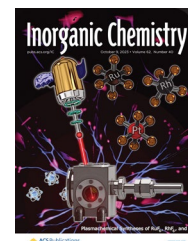
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