

Dr. (RUS) Sergei Ivlev

Articles in Peer Review Journals (updated on 30.08.2021)

1. N. Demirel, J. Qin, S. Ivlev, K. Harms, E. Meggers  
**Catalytic Enantioselective Oxidative Homocoupling of 2-Acyl Imidazoles**  
*Adv. Synth. Catal.*, **2021**, accepted. DOI: [10.1002/adsc.202100837](https://doi.org/10.1002/adsc.202100837).
2. J. Bandemehr, F. Zimmerhofer, S. I. Ivlev, C. Pietzonka, K. Eklund, A. J. Karttunen, H. Huppertz, F. Kraus  
**Syntheses and Characterization of the Mixed-Valent Manganese(II/III) Fluorides Mn<sub>2</sub>F<sub>5</sub> and Mn<sub>3</sub>F<sub>8</sub>**  
*Inorg. Chem.*, **2021**, accepted. DOI: [10.1021/acs.inorgchem.1c01833](https://doi.org/10.1021/acs.inorgchem.1c01833).
3. D. Bischof, M. Zeplichal, S. Anhäuser, A. Kumar, M. Kind, F. Kramer, M. Bolte, S. I. Ivlev, A. Terfort, G. Witte  
**Perfluorinated Acenes: Crystalline Phases, Polymorph-Selective Growth, and Optoelectronic Properties**  
*J. Phys. Chem. C.*, **2021**, accepted. DOI: [10.1021/acs.jpcc.1c05985](https://doi.org/10.1021/acs.jpcc.1c05985).
4. C. Zhang, A. Z. Gao, X. Nie, C. Ye, S. I. Ivlev, S. Chen, E. Meggers  
**Catalytic  $\alpha$ -Deracemization of Ketones Enabled by Photoredox Deprotonation and Enantioselective Protonation**  
*J. Am. Chem. Soc.*, **2021**, *143*, 33, 13393–13400. DOI: [10.1021/jacs.1c06637](https://doi.org/10.1021/jacs.1c06637).
5. S. I. Ivlev, F. Kraus  
**Barium bis-[tetra-fluorido-bromate(III)]**  
*IUCrData*, **2021**, *6*, x210735. DOI: [10.1107/S2414314621007355](https://doi.org/10.1107/S2414314621007355).
6. P. S. Steinlandt, X. Xie, S. Ivlev, E. Meggers  
**Stereogenic-at-Iron Catalysts with a Chiral Tripodal Pentadentate Ligand**  
*ACS Catal.*, **2021**, *11*, *12*, 7467–7476. DOI: [10.1021/acscatal.1c01675](https://doi.org/10.1021/acscatal.1c01675).
7. U. Müller, S. Ivlev, S. Schulz, C. Wölper  
**Automated Crystal Structure Determination has its Pitfalls: Correction to the Crystal Structures of Iodine Azide**  
*Angew. Chem.*, **2021**, *133* (32), 17592–17594. DOI: [10.1002/ange.202105666](https://doi.org/10.1002/ange.202105666).  
*Angew. Chem. Int. Ed.*, **2021**, *60* (32), 17452–17454. DOI: [10.1002/anie.202105666](https://doi.org/10.1002/anie.202105666).
8. E. Winterling, S. Ivlev, E. Meggers  
**Chiral-at-Ruthenium Catalysts with Mixed Normal and Abnormal N-Heterocyclic Carbene Ligands**  
*Organometallics*, **2021**, *40*, *8*, 1148–1155. DOI: [10.1021/acs.organomet.1c00095](https://doi.org/10.1021/acs.organomet.1c00095).
9. Y. Hong, T. Cui, S. Ivlev, X. Xie, E. Meggers  
**Chiral-at-Iron Catalyst for Highly Enantioselective and Diastereoselective Hetero-Diels-Alder Reaction**  
*Chem. – Eur. J.*, **2021**, *27* (33), 8557–8563. DOI: [10.1002/chem.202100703](https://doi.org/10.1002/chem.202100703).
10. S. Schneider, S. Ivlev, C. von Hänisch  
**Stibine as a reagent in molecular chemistry - targeted synthesis of primary and secondary stibanyl-gallanes and their lighter homologues**  
*Chem. Commun.*, **2021**, *57*, 3781–3784. DOI: [10.1039/D0CC08419K](https://doi.org/10.1039/D0CC08419K).
11. Z. Zhou, Y. Tan, X. Shen, S. Ivlev, E. Meggers  
**Catalytic enantioselective synthesis of  $\beta$ -amino alcohols by nitrene insertion**  
*Sci. China: Chem.*, **2021**, *64*, 452–458. DOI: [10.1007/s11426-020-9906-x](https://doi.org/10.1007/s11426-020-9906-x).
12. X. Nie, Z. Yan, S. Ivlev, E. Meggers  
**Ruthenium Pybox-Catalyzed Enantioselective Intramolecular C–H Amination of Sulfamoyl**

## Azides en Route to Chiral Vicinal Diamines

*J. Org. Chem.*, **2021**, *86*, 1, 750–761. DOI: [10.1021/acs.joc.0c02279](https://doi.org/10.1021/acs.joc.0c02279).

13. B. Scheibe, R. Haiges, S. I. Ivlev, A. J. Karttunen, Ulrich Müller, K. O. Christe, F. Kraus  
**Difluorochloronium(III) Fluoridometallates – from Molecular Building Blocks to (Helical) Chains**  
*Eur. J. Inorg. Chem.*, **2020**, *47*, 4483–4496. DOI: [10.1002/ejic.202000845](https://doi.org/10.1002/ejic.202000845).
14. J. Bandemehr, S. I. Ivlev, A. J. Karttunen, F. Kraus  
**Preparation of Two Quantum-Chemically Predicted, Isomeric [Br<sub>4</sub>F<sub>13</sub>]<sup>−</sup> Anions in the Solid State**  
*Eur. J. Inorg. Chem.*, **2020**, *48*, 4568–4576. DOI: [10.1002/ejic.202000875](https://doi.org/10.1002/ejic.202000875).
15. H. L. Deubner, S. I. Ivlev, F. Kraus  
**Rerefinement of the crystal structure of tri-chlorido-sulfonium-(IV) hexa-chlorido-uranate(V), (SCI<sub>3</sub>)[UCI<sub>6</sub>]**  
*IUCrData*, **2020**, *5*, x200960. DOI: [10.1107/S2414314620009608](https://doi.org/10.1107/S2414314620009608).
16. Y. Tan, S. Chen, Z. Zhou, Y. Hong, S. Ivlev, K. N. Houk, E. Meggers  
**Intramolecular C(sp<sup>3</sup>)-H Bond Oxygenation by Transition-Metal AcylNitrenoids**  
*Angew. Chem.*, **2020**, *132* (48), 21890–21894. DOI: [10.1002/ange.202009335](https://doi.org/10.1002/ange.202009335).  
*Angew. Chem. Int. Ed.*, **2020**, *59* (48), 21706–21710. DOI: [10.1002/anie.202009335](https://doi.org/10.1002/anie.202009335).
17. G. Wang, Z. Zhou, X. Shen, S. Ivlev, E. Meggers  
**Asymmetric catalysis with a chiral-at-osmium complex**  
*Chem. Commun.*, **2020**, *56*, 7714–7717. DOI: [10.1039/D0CC03280H](https://doi.org/10.1039/D0CC03280H).
18. P. E. Hofmann, M. W. Tripp, D. Bischof, Y. Grell, A. L. C. Schiller, T. Breuer, S. I. Ivlev, G. Witte, Ulrich Koert  
**Unilaterally Fluorinated Acenes: Synthesis and Solid-State Properties**  
*Angew. Chem.*, **2020**, *132* (38), 16644–16648. DOI: [10.1002/ange.202006489](https://doi.org/10.1002/ange.202006489).  
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19. Z. Zhou, Y. Tan, T. Yamahira, S. Ivlev, X. Xie, R. Riedel, M. Hemming, M. Kimura, E. Meggers  
**Enantioselective Ring-Closing C–H Amination of Urea Derivatives**  
*Chem*, **2020**, *6*(8), 2024–2034. DOI: [10.1016/j.chempr.2020.05.017](https://doi.org/10.1016/j.chempr.2020.05.017).
20. C.-X. Ye, S. Chen, F. Han, X. Xie, S. Ivlev, K. N. Houk, E. Meggers  
**Atroposelective Synthesis of Axially Chiral N-Arylpyrroles by Chiral-at-Rhodium Catalysis**  
*Angew. Chem.*, **2020**, *132* (32), 13654–13658. DOI: [10.1002/ange.202004799](https://doi.org/10.1002/ange.202004799).  
*Angew. Chem. Int. Ed.*, **2020**, *59* (32), 13552–13556. DOI: [10.1002/anie.202004799](https://doi.org/10.1002/anie.202004799).
21. M. A. Nowroozi, K. Wissel, M. Donzelli, N. Hosseinpourkahvaz, S. Plana-Ruiz, U. Kolb, R. Schoch, M. Bauer, A. M. Malik, J. Rohrer, S. Ivlev, F. Kraus, O. Clemens  
**High cycle life all-solid-state fluoride ion battery with La<sub>2</sub>NiO<sub>4+d</sub> high voltage cathode**  
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22. R. Stene, B. Scheibe, S. I. Ivlev, A. J. Karttunen, W. Petry, Florian Kraus  
**Photochemical Synthesis of Tungsten Pentafluoride, WF<sub>5</sub>**  
*Z. Anorg. Allg. Chem.*, **2020**, *647* (4), 218–224. DOI: [10.1002/zaac.202000177](https://doi.org/10.1002/zaac.202000177).
23. L. Li, F. Han, X. Nie, Y. Hong, S. Ivlev, E. Meggers  
**Complementing Pyridine-2,6-bis(oxazoline) with Cyclometalated N-Heterocyclic Carbene for Asymmetric Ruthenium Catalysis**  
*Angew. Chem.*, **2020**, *132* (30), 12491–12495. DOI: [10.1002/ange.202004243](https://doi.org/10.1002/ange.202004243).  
*Angew. Chem. Int. Ed.*, **2020**, *59* (30), 12392–12395. DOI: [10.1002/anie.202004243](https://doi.org/10.1002/anie.202004243).
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**The Crystal Structure of MnF<sub>3</sub> Revisited**  
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**Synthesis and Characterization of Manganese Tetrafluoride  $\beta$ -MnF<sub>4</sub>**  
*Z. Anorg. Allg. Chem.*, **2020**, 646 (18), 1481–1489. DOI: [10.1002/zaac.202000048](https://doi.org/10.1002/zaac.202000048).
26. J. Bandemehr, J. Klippstein, S. I. Ivlev, M. Sachs, F. Kraus  
**Laboratory synthesis and characterization of Knasibfite K<sub>3</sub>Na<sub>4</sub>[SiF<sub>6</sub>]<sub>3</sub>[BF<sub>4</sub>] and the homologous Ge compound K<sub>3</sub>Na<sub>4</sub>[GeF<sub>6</sub>]<sub>3</sub>[BF<sub>4</sub>]**  
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27. B. Scheibe, S. I. Ivlev, A. J. Karttunen, F. Kraus  
**Synthesis and Characterization of the Tetrafluoridochlorates(III) A[ClF<sub>4</sub>] (A = K, Rb, Cs)**  
*Eur. J. Inorg. Chem.*, **2020**, 14, 1319–1324. DOI: [10.1002/ejic.202000106](https://doi.org/10.1002/ejic.202000106).
28. A. V. Malin, S. I. Ivlev, R. V. Ostvald, F. Kraus  
**Redetermination of the crystal structure of caesium tetrafluoridobromate(III) from single-crystal X-ray diffraction data**  
*IUCrData* **2020**, 5, x200114. DOI: [10.1107/S2414314620001145](https://doi.org/10.1107/S2414314620001145).
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**Rubidium tetrafluoridobromate(III): redetermination of the crystal structure from single-crystal X-ray diffraction data**  
*IUCrData* **2019**, 4 (11), x191595. DOI: [10.1107/S2414314619015955](https://doi.org/10.1107/S2414314619015955).
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*Eur. J. Inorg. Chem.*, **2019**, 1, 64–70. DOI: [10.1002/ejic.201901041](https://doi.org/10.1002/ejic.201901041).
31. H. L. Deubner, M. Sachs, J. Bandemehr, S. I. Ivlev, A. J. Karttunen, S. R. Kachel, B. P. Klein, L. Ruppenthal, M. Schöniger, C. K. Krug, J. Herritsch, J. M. Gottfried, J. N. M. Aman, J. Schmedt auf der Günne, F. Kraus  
**Binary Lead Fluoride Pb<sub>3</sub>F<sub>8</sub>**  
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**HKLF5Tools: a program for processing diffraction data from non-merohedrally twinned crystals**  
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**The Crystal Structures of  $\alpha$ - and  $\beta$ -F<sub>2</sub> revisited**  
*Chem. – Eur. J.*, **2019**, 25 (13), 3310–3317. DOI: [10.1002/chem.201805298](https://doi.org/10.1002/chem.201805298).
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**A Revised Structure Model for the UCl<sub>6</sub> Structure Type, Novel Modifications of UCl<sub>6</sub> and UBr<sub>5</sub>, and a comment on the Modifications of Protactinium Pentabromides**  
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35. S. Ivlev, M. Conrad, M. Hoelzel, A. Karttunen, F. Kraus  
**The Crystal Structures of  $\alpha$ - and  $\beta$ -Nitrogen Trifluoride**  
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**UF<sub>4</sub> and the High-Pressure Polymorph HP-UF<sub>4</sub>**  
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37. S. I. Ivlev, K. Gaul, M. Chen, A. J. Karttunen, R. Berger, F. Kraus  
**Synthesis of [Br<sub>3</sub>][MF<sub>6</sub>] (M = Sb, Ir), Quantum Chemical Study of [Br<sub>3</sub>]<sup>+</sup> Structure, Bonding, and Relativistic Effects compared to [XBr<sub>2</sub>]<sup>+</sup> (X = Br, I, At, Ts) and [TsZ<sub>2</sub>]<sup>+</sup> (Z = F, Cl, Br, I, At,**

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**In vitro degradation behaviour of hybrid electrospun scaffolds of polycaprolactone and strontium-containing hydroxyapatite microparticles**  
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**Reactions of  $\text{KBrF}_4$  with Platinum Metals**  
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**Characterization of biomimetic silicate- and strontium-containing hydroxyapatite microparticles embedded in biodegradable electrospun polycaprolactone scaffolds for bone regeneration**  
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**F-bridged Anions of Bromine and Gold: Predictions of Unexpected Behavior**  
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42. S. I. Ivlev, M. R. Buchner, A. J. Karttunen, and F. Kraus  
**Synthesis and Characterization of the pyridine–bromine trifluoride (1/1) complex  $[\text{py}\cdot\text{BrF}_3]$**   
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**A Neutron Diffraction and Quantum-Chemical Study of  $[\text{Mn}(\text{ND}_3)_6](\text{N}_3)_2$**   
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**The Interhalogen Cations  $[\text{Br}_2\text{F}_5]^+$  and  $[\text{Br}_3\text{F}_8]^+$**   
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**Synthesis and Characterization of Barium Hexafluoridoosmates**  
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**Syntheses and Crystal Structures of Sodium Hydrogen Fluorides  $\text{NaF}\cdot n\text{HF}$  ( $n = 2, 3, 4$ )**  
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**A New Look at NaBrF<sub>4</sub>: The Most BrF<sub>3</sub>-Rich Tetrafluoridobromate(III) by Mass**  
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52. S. I. Ivlev, D. V. Akimov, N. B. Egorov, F. Kraus  
**Synthesis and characterization of LiClO<sub>4</sub>·H<sub>2</sub>O**  
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**Synthesis and Characterization of Barium Tetrafluoridobromate(III) Ba(BrF<sub>4</sub>)<sub>2</sub>**  
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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>**  
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