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## Computational search for novel Zn-ion conductors— a crystallochemical, bond valence, and density functional study

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Zinc-based batteries have been a recurring theme throughout history, from Volta's pile, the Daniell and Leclanché elements to powering modern space vehicles. To date, no rechargeable all solid-state Zn-ion battery has been commercialized. Therefore, we intended to contribute to increasing the number of available Zn-ion conductors for such batteries. We used a stepwise algorithm (Voronoi partition, BVSE, and DFT) to identify compounds from the ICSD prone to Zn-ion conductivity.

**Primary authors:** LEISEGANG, Tilmann (TU Bergakademie Freiberg/Samara State Technical University); ROTHENBERGER, Manuel (TU Bergakademie Freiberg); MORKHOVA, Yelizaveta A. (Samara Center for Theoretical Materials Science); Prof. ADAMS, Stefan (National University of Singapore); Prof. BLATOV, Vladislav A. (Samara Center for Theoretical Materials Science); KABANOV, Artem A. (Samara Center for Theoretical Materials Science)

**Presenter:** LEISEGANG, Tilmann (TU Bergakademie Freiberg/Samara State Technical University)

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