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The Evolution of Perovskite Complexity

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A recent research direction related to ABX_3 perovskites is the use of molecules on the A and/or X-site, a development that has proved fruitful for photovoltaics, (improper) ferroelectrics and barocalorics. Here an information theory-based rating scheme is applied to obtain structural complexities of various perovskite classes and it is shown that increased chemical diversity is synonymous with increased structural complexity which scales with the size of the pseudocubic ReO_3 -type network.

Primary author: KIESLICH, Gregor (Technical University of Munich)

Presenter: KIESLICH, Gregor (Technical University of Munich)

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