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Perspectives in superheavy element research

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Superheavy elements provide unique opportunities to study nuclear structure and the influence of relativistic effects on the electron shell. So far, the elements up to proton number 118 have been discovered and their nuclear decay properties have been investigated. Recently, improved and new experimental techniques provided access to the atomic, nuclear and chemical properties of the heaviest elements. I will give an overview on the latest research highlights and a personal view on the future of the research field of the heaviest elements.

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