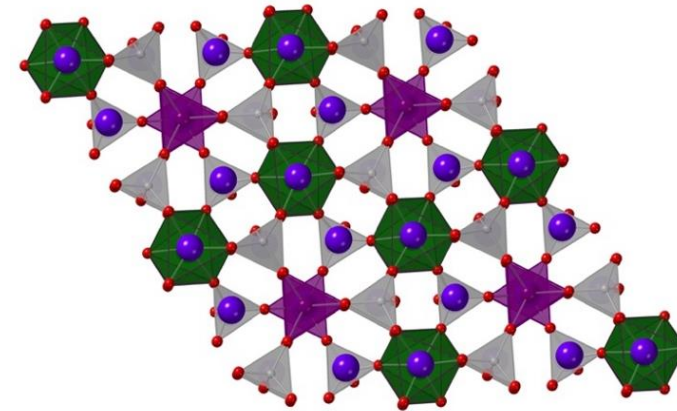
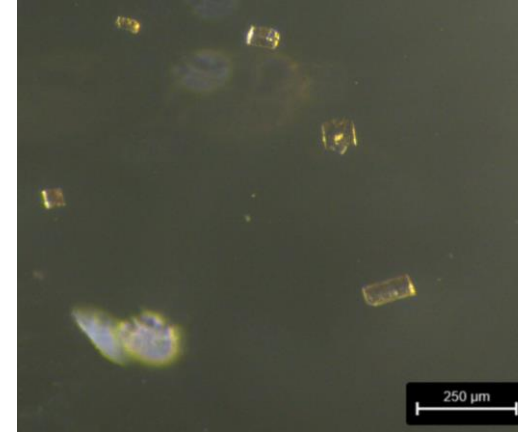


Center for Hierarchical Waste Form Materials (CHWM)

Hans-Conrad zur Loye (University of South Carolina); Class 2016-2025

MISSION: Advance an understanding of the atomic environment in extended crystalline structures and their response to radiation fields and radiolytic processes to help design and predict the behavior of novel, robust nuclear waste forms.

RESEARCH PLAN: The unique predictive and synthetic capabilities developed in the center will be used to study the crystal chemistry of transuranic (TRU) containing extended crystalline structures, to elucidate which types of structural elements favor radiation resiliency of TRU-containing extended structures, and to investigate their response to radiation damage and radiolytic processes.



<https://chwm.sc.edu>

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