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Nuclear waste management related research activities at UC Irvine

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A summary of recent progress in materials chemistry at UC Irvine dedicated to nuclear waste management will be presented. Utilization of wet-chemical, innovative synthesis approaches in combination with a wide range of characterization tools, facilitate a better understanding of the structure-property relationships of nuclear waste forms. Research activities regarding direct disposal of spent nuclear fuel, as well as on tailored waste forms, e.g. pyrochlores will be presented. Ongoing efforts at UCI are supported by the recently established cluster of nuclear chemistry laboratories in combination with the TRIGA reactor and characterization facilities and will be briefly introduced.