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Jia-Xiang Xue is a senior engineer of China Nuclear Power Technology Research Institute (CNPRI). He did his postgraduate study of materials in Shanghai Institute of Ceramics, and during his study, he mainly engaged in the advanced ceramics such as silicon carbide and zirconium carbide for nuclear energy extreme environment applications, including ceramic materials preparation and characterization, properties evaluation and radiation damage investigation. Now, Dr. Xue's research focuses on nuclear materials in CNPRI, especially the development of accident tolerant fuels (ATF) for light water reactors, including SiC/SiC composites cladding and coatings on Zry cladding. He has published over 30 papers, and led a number of significant research initiatives funded by the National Natural Science Foundation of China and the National Key Research and Development Program of China.