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- Materials aspects of the entire fuel cycle.
- Performance of nuclear waste materials, glasses and ceramics, immobilization of wastes.
- Fusion reactor materials, including first walls, blankets, insulators, and magnets.
- Neutron radiation effects in materials, including defects, microstructures, transmutations, phase changes, and macroscopic properties.
- Interactions of plasmas, ion beams, electron beams and electromagnetic radiation with materials.

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Cover picture: Example of an angular IG crack, Part of Fig. 3 in the paper by T. Onchi et al., in pp. 194-208 of this issue.