

# JOURNAL OF NUCLEAR MATERIALS

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The Journal of Nuclear Materials publishes high quality papers in materials research relevant to nuclear fission and fusion reactor technologies, and in closely related aspects of materials science and engineering. Both original research and critical review papers covering experimental, theoretical, and computational aspects of either fundamental or applied nature are welcome. The breadth of the field is such that a wide range of processes and properties is of interest to the readership, spanning atomic lattice defects, microstructures, thermodynamics, corrosion, and mechanical and physical properties, for example. The following list, which is not exhaustive, describes topics appropriate to the Journal.

- Fission reactor materials, including fuels, cladding, core structures, pressure vessels, moderator and control components: fission product behavior.
- Materials aspects of the fabrication and reprocessing of fuels.
- 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:* HREM micrograph of thorium oxalate particles obtained by de-agglomeration in propan-2-one, Part of Fig. 2 in the paper by K. Ananthasivan et al., in pp. 1–9 of this issue.