

# 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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## Subscription Information 2003

Volumes 312–323 of Journal of Nuclear Materials (ISSN 0022-3115) are scheduled for publication. Prices are available from the publishers upon request. Subscriptions are accepted on a prepaid basis only.

**US mailing notice** – Journal of Nuclear Materials (ISSN 0022-3115) is published monthly, except semimonthly in February, April and December, by Elsevier Science BV, Molenwerf 1, PO Box 211, 1000 AE Amsterdam, The Netherlands. The annual subscription price in the USA is US\$ 5862 (valid in North, Central and South America only), including air speed delivery. Periodicals postage paid at Jamaica, NY 11431. USA Postmasters: Send changes to Journal of Nuclear Materials, Publications Expediting, Inc., 200 Meacham Avenue, Elmont, NY 11003. Airfreight and mailing in the USA by Publications Expediting.

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Printed in The Netherlands

*Cover picture:* Scanning electron micrograph of heterogeneities observed in borosilicate glass above the solubility limits for Hf, Part of Fig. 1 in the paper by C. Lopez et al., in pp. 76–80 of this issue.