

Irradiation Effects in Nuclear and Their Related Materials

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Nagai, Y; Murayama, M; Tang, Z; Nonaka, T; Hono, K; Hasegawa, M

Role of vacancy-solute complex in the initial rapid age hardening in an Al-Cu-Mg alloy

Acta Mater. 49 (2001) 913 – 920

01-IMR0252

Anwand, W; Brauer, G; Hasegawa, M; Dersch, O; Rauch, F

A study of positron properties in quartz crystals and synthetic silica glass

Acta Phys. Pol. A 99 (2001) 321 – 328

01-IMR0253

Hasegawa, M; Tang, Z; Nagai, Y; Shimamura, T; Nakazuru, K; Chiba, T; Saito, M

Magic-number vacancy clusters in graphite and silicon

Mater. Sci. Forum 363–3 (2001) 132 – 134

01-IMR0254

Riewcharoon, T; Tang, Z; Nagai, Y; Hasegawa, M

Positron annihilation study of microvoids in neutron-irradiated vanadium: Effects of oxygen impurities

Mater. Sci. Forum 363–3 (2001) 167 – 169

01-IMR0255

Tang, Z; Nonaka, T; Nagai, Y; Hasegawa, M

Identification of vacancy-oxygen complexes in Si by coincidence Doppler broadening of positron annihilation radiation and first-principles calculations

Mater. Sci. Forum 363–3 (2001) 67 – 69

01-IMR0256

Nagai, Y; Hasegawa, M; Tang, Z; Kanai, T; Saneyasu, M

Study of ultrafine Cu precipitates in neutron-irradiated Fe utilizing positron quantum-dot-like states

Mater. Sci. Forum 363–3 (2001) 91 – 93

01-IMR0257

Wang, CL; Kobayashi, Y; Zheng, W; Zhang, C; Nagai, Y; Hasegawa, M

Positronium formation in a polymer blend of polyethylene and chlorinated polyethylene

Phys. Rev. B 63 (2001) Art. No. 064204 –

01-IMR0258

Nagai, Y; Tang, Z; Hasegawa, M; Kanai, T; Saneyasu, M

Irradiation-induced Cu aggregations in Fe: An origin of embrittlement of reactor pressure vessel steels

Phys. Rev. B 63 (2001) Art. No. 134110 –

01-IMR0259

Nagai, Y; Chiba, T; Tang, Z; Akahane, T; Kanai, T; Hasegawa, M; Takenaka, M; Kuramoto, E

Fermi surface of nanocrystalline embedded particles in materials: bcc Cu in Fe

Phys. Rev. Lett. 87 (2001) Art. No. 176402 –

01-IMR0260