

Journal of Materials Research

**Articles Featured in June 1990 Issue
(Vol. 5, No. 6)**

Photoluminescence in Chemically Polymerized SiO₂ and Al₂O₃-SiO₂ Systems, by Bulent E. Yoldas.

Advanced Epitaxial Si and Ge_xSi_{1-x} Multi-processing for Semiconductor Device Technologies, by Mehrdad M. Moslehi and Cecil J. Davis.

Carbon Retention in YBa₂Cu₃O_{7-d} and Its Effect on the Superconducting Transition, by T.M. Shaw, D. Dimos, P.E. Batson, A.G. Schrott, D.R. Clarke, and P.R. Duncombe.

Lanthanum-Doping of YBa₂Cu₃O_x, by D.J.L. Hong, A. Mehta, D.M. Smyth, E.K. Chang, and M.J. Kirschner.

Oriented BSCCO Thick Film Coatings on Polycrystalline MgO, by J.R. Spann, L.E. Toth, I.K. Lloyd, M. Kahn, M. Chase, B.N. Das, T.L. Francavilla, and M.S. Osofsky.

Microstructures and Mechanical Properties of NiAl-Ni₂AlHf Alloys, by M. Takeyama and C.T. Liu.

Combined Neutron and X-ray Powder Diffraction Study of Fe_{0.50}Co_{0.48}V_{0.02}, by A. Williams, G.H. Kwei, A.T. Ortiz, M. Karnowski, and W.K. Warburton.

Crystallization Behaviour of Some Melt Spun Nd-Fe-B Alloys, by M.T. Clavaguera-Mora, M.D. Baro, S. Surinach, and N. Clavaguera.

Thermal Decomposition of Fe(III) Nitrate and its Aerosol, by Ahmed M. Gadalla and Hsuan-Fu Yu.

Microstructure and Tribology of Laser Mixed Fe/Ti/C Multilayered Films on AISI 304 Stainless Steel, by M. Nastasi, J.-P. Hirvonen, T.G. Zocco, and T.R. Jervis.

Raman Microprobe Study of Nanophase TiO₂ and Oxidation-Induced Spectral Changes, by J.C. Parker and R.W. Siegel.

Grain Growth in Donor-Doped SrTiO₃, by C.-J. Peng and Y.-M. Chiang.

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Small-Angle Scattering Studies of the Pore Structure of Polymer-Modified Portland Cement Pastes, by V.M. Castano, P.W. Schmidt, and H.G. Hornis.

Preferred Orientation of Pitch Precursor Fiber, by T. Hamada, M. Furuyama, Y. Sajiki, T. Tomioka, and M. Endo.

Thermal Shock-Induced Fracture of Ion-Implanted LiF Crystals, by V.N. Gurarie and J.S. Williams.

Electrochemically Lithiated V₂O₅ Films: An Optically Passive Ion Storage for Transparent Electrochromic Devices, by A. Talledo, A.M. Andersson, and C.G. Granqvist.

Chalcogenide Glasses Ge-Sn-Se, Ge-Se-Te and Ge-Sn-Se-Te for Infrared Optical

Fibers, by I. Haruvi-Busnach, J. Dror, and N. Croitoru.

Stability of Tantalum Nitride Thin Film Resistors, by C.L. Au, W.A. Anderson, D.A. Schmitz, J.C. Flassäyer, and F.M. Collins.

OMCVD of Thin Films from Metal Diketonates and Triphenylbismuth, by A.D. Berry, R.T. Holm, M. Fatemi, and D.K. Gaskill.

Carbon Fiber Reinforced Tin-Lead Alloy as a Low Thermal Expansion Solder Preform, by C.T. Ho and D.D.L. Chung.

Surface, Interface, and Thin-Film Magnetism (Department of Energy panel report), by L.M. Falicov, Daniel T. Pierce, S.D. Bader, R. Gronsky, Kristl B. Hathaway, Herbert J. Hopster, David N. Lambeth, S.S.P. Parkin, Gary Prinz, Myron Salmon, Ivan K. Schuller, and R.H. Victora.

Weak Localization and Coulomb Interaction in Graphite Intercalation Compounds and Related Materials, by L. Piraux.

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