

Papers by Bell Laboratories Authors

BIOLOGY

³¹P Nuclear Magnetic Resonance Studies O-Ehrlich Ascites Tumor Cells. G. Navon, S. Ogawa, R. G. Shulman, T. Yamane, *Proc. Natl. Acad. Sci.*, 74 (January 1977), pp. 87-91.

CHEMISTRY

Picosecond Dynamics of Azulene. E. P. Ippen, C. V. Shank, R. L. Woerner, *Chem. Phys. Lett.*, 46, No. 1 (February 15, 1977), pp. 20-23.

Is Samarium Metal in an Intermediate Valence State? G. K. Wertheim, M. Campagna, *Chem. Phys. Lett.*, 47 (1977), pp. 182-184.

The Radiofrequency Discharge Chemistry of Benzene and Mixtures with Helium, Argon, and Xenon. G. Smolinsky, M. J. Vasile, *Int. J. Mass Spectrom. Ion Phys.*, 24 (1977), pp. 311-322.

The Nature and Effects of Platinum in Perovskite Catalysts. D. W. Johnson, Jr., P. K. Gallagher, G. K. Wertheim, E. M. Vogel, *J. Catal.*, 48 (1977), pp. 87-97.

Oxidation of Ni₃Sa₄, Metastable SaNi, Ni₃Sa₂ and Ni₃Sa₁. H. G. Tomkins, J. E. Bennett, *J. Electrochem. Soc.*, 124, No. 4 (April 1977), pp. 621-623.

X-Ray Absorption Studies of Halide Binding to Carbonic Anhydrase. G. E. Brown, G. Navon, R. G. Shulman, *Proc. Nat. Acad. Sci.*, 74 (May 1977), pp. 1794-1797.

ELECTRICAL AND ELECTRONIC ENGINEERING

Solid State Electronics: Scientific Basis for Future Advances. J. A. Giordmaine, *Sci. Compendium*, 195 (March 18, 1977), pp. 1235-1240.

Noise Performance of Microwave GaAs FET Amplifiers at Low Temperatures. R. E. Miller, T. C. Phillips, D. E. Iglesias, R. H. Knerr, *Electron Lett.*, 13 (January 6, 1977), pp. 10-11.

Image Contour Extraction with Analog MOS Circuit Techniques. P. I. Siciu, D. A. Hodges, *IEEE J. Solid State Circuits*, SC-12 (February 1977), pp. 65-72.

On Quantizers for DPCM Coding of Picture Signals. A. N. Netravali, *IEEE Trans. Inform. Theory*, IT-23, No. 3 (May 1977), pp. 360-370.

Geometrical Factors in Avalanche Punch-Through Erase. J. R. Brews, *IEEE Trans. Electron Dev.*, ED-24 (August 1977), pp. 1108-1116.

Simultaneous Phase Tracking and Detection in Data Transmission Over Noisy Dispersive Channels. F. R. Magee, Jr., *IEEE Trans. Commun.*, COM-25 (July 1977), pp. 712-715.

Rain-Scatter Interference on an Earth-Space Path. T. S. Chu, *IEEE Trans. Ant. Propag.*, AP-25 (March 1977), pp. 287-288.

DC Thermal Model of Semiconductor Device Produces Current Filaments as Stable Current Distributions. Hilding M. Olson, *IEEE Trans. Electron Dev.*, ED-24 (September 1977), pp. 1177-1184.

Laser Coding of Bipolar Read Only Memories. J. C. North, W. W. Weick, *IEEE J. of Solid State Circuits*, SC-11, No. 4 (August 1976), pp. 500-505.

Rank Reduction of Ill-Conditioned Matrices in Waveguide Junction Problems. Douglas N. Zuckerman, Paul Diament, *IEEE Trans. Micro. Theory Tech.*, *MTT-25* (July 1977), pp. 613-619.

On Low-Sensitivity Realizations of Band-Elimination Active Filters. Renato N. Gadenz, *IEEE Trans. Circuits Syst.*, *CAS-24*, No. 4 (April 1977), pp. 175-183.

MATERIALS SCIENCE

A Simplified High Frequency MOS Capacitance Formula. J. R. Brews, *Solid State Electron.*, *20* (1977), pp. 607-608.

Giant Core-Exciton Effects on Si(111) 7×7 Surfaces. G. Margaritondo, J. E. Rowe, *Phys. Lett.*, *59A* (January 10, 1977), pp. 464-466.

Near Infrared Sources in the 1-1.3 μm Region by Efficient Stimulated Raman Emission in Glass Fibers. C. Lin, L. G. Cohen, R. H. Stolen, G. W. Tasker, and W. G. French, *Opt. Commun.*, *20*, No. 3 (March 1977), pp. 426-428.

Dispersion of Electronic Surface Resonances and Crystal Surface Structure. E. G. McRae, J. M. Landwehr, C. W. Caldwell, *Phys Rev Lett*, *38* (June 13, 1977), pp. 1422-1425.

Theoretical Modeling of the Simultaneous Exposure and Development (SED) Process of a Positive Photoresist. W. T. Tsang, *Appl. Opt.*, *16* (July 1977), pp. 1918-1930.

Dependence of Residual Damage on Temperature During Ar^+ Sputter Cleaning of Silicon. J. C. Bean, G. E. Becker, P. M. Petroff, T. E. Seidel, *J. Appl. Phys.*, *48* (March 1977), pp. 907-913.

The Loading Effect in Plasma Etching. C. J. Mogab, *J. Electrochem. Soc.*, *124* (August 1977), pp. 1262-1268.

Demagnetization of the Ni(100) Surface by Hydrogen Absorption. M. Landolt, M. Campagna, *Phys. Rev. Lett.*, *39* (August 29, 1977), pp. 568-570.

The Anomalous Behavior of TiSe_2 and the Excitonic Insulator Mechanism. J. A. Wilson, S. Mahajan, *Commun. Phys.*, *2* (1977), pp. 23-29.

Computer Model of Spin Glasses. L. R. Walker, R. E. Walstedt, *38*, No. 9 (February 28, 1977), pp. 514-518.

The Copolymerization of Styrene with Sulfur Dioxide. Determination of the Monomer Sequence Distribution by Carbon-13 NMR. R. E. Cais, J. H. O'Donnell, F. A. Bovey, *Macromolecules*, *10*, No. 2 (March-April 1977), pp. 254-260.

A Model for the Formation of Oxidation Induced Stacking Faults In Silicon. S. Mahajan, G. A. Rozgonyi, D. Brasen, *Appl. Phys. Lett.*, *30* (January 1977), pp. 73-75.

A Quantitative Model for the Diffusion of Phosphorus in Silicon and the Emitter Dip Effect. R. B. Fan, J. C. C. Tasi, *J. Electrochem. Soc.*, *124* (July 1977), pp. 1107-1118.

A Method of Tungsten Dopant Deposition for Dual-Dielectric Charge-Storage Cells. J. R. Ligenza, D. Kahng, M. P. Lepselter, E. Labate, *IEEE Trans. Electron. Dev.*, *ED-24*, No. 5 (May 1977), pp. 581-583.

The Tetragonal Deformation of the TiO_6 Octahedron in Ferroelectric PbTiO_3 . J. G. Bergman, G. R. Crane, E. H. Turner, *J. Solid State Chem.*, *21* (1977) pp. 127-133.

Absolute Configuration of Piezoelectrics: A Bibliography II. D. T. Hawkins, *Ferroelectrics*, *15* (1977) pp. 77-96.

PHYSICS

Relaxation of Tunneling States in Fused Silica. J. E. Graebner, Brage Golding, Bull. Amer. Phys. Soc., 22 (March 1977) p. 310.

Feedback Stabilization of Optically Levitated Particles. A. Ashkin, J. M. Dziedzic, Appl. Phys. Lett., 30, No. 4 (February 15, 1977), pp. 202-204.

Polarization Rotation Effects in Atomic Sodium Vapor. P. F. Liao, G. C. Bjorklund, Phys. Rev., 15, No. 5 (May 1977), pp. 2009-2018.

Condensation of Optically Excited Carriers in CdS: Determination of EHL Phase Diagram. R. F. Leheny, Jagdeep Shah, Phys. Rev. Lett., 38, No. 9 (February 28, 1977), pp. 511-514.

Observation of the Two-Dimensional Plasmon in Silicon Inversion Layers. S. J. Allen, Jr., D. C. Tsui, R. A. Logan, Phys. Rev. Lett., 38, No. 7 (April 25, 1977), pp. 980-983.

AC Stark Splitting of Two-Photon Spectra. J. E. Bjorkholm, P. F. Liao, Opt. Commun., 21 No. 1 (April 1977) pp. 132-136.

Critical Nuclear Magnetic Relaxation in a Strong Itinerant. M. Shaham, J. Barak, U. El-Hanany, W. W. Warren, Jr., Phys. Rev. Lett., 39 (August 29, 1977), pp. 570-574.

Torsional Waves in a Sapphire Rod at Low Frequencies. Robert N. Thurston, Lynn O. Wilson, IEEE Trans. Son. Ultrason., SU-24 (September 1977), pp. 305-312.

Normal Photoemission Demonstration of Two and Three Dimensionality of Electron States in Layer Compounds. P. K. Larsen, M. Schluter, N. V. Smith, Solid State Commun., 21 (February 1977), pp. 775-778.

Measurement of the Fine Structure Splitting of the 4F State in Sodium Using Two-Photon Spectroscopy with a Resonant Intermediate State. P. F. Liao, J. E. Bjorkholm, Phys. Rev. Lett., 36, No. 26 (June 28, 1977), pp. 1543-1545.

