Bibliography of NRL Publications—1988

EILEEN PICKENPAUGH

Library Services
Technical Information Division

DTIC ELECTED
NUV 05 1993

October 1988

93-26691

Approved for public release, distribution unlimited
Bibliography of NRL Publications—1988

Eileen Pickenpaugh, compiler

Library Services
Technical Information Division
Naval Research Laboratory
Washington, DC 20375-5000

NRL Report 9251

Approved for public release; distribution unlimited.

The 1988 bibliography consists of NRL publications authored by NRL's federal employees and contractors. The bibliography includes those memorandum and formal reports, journal articles, conference papers, books, and book chapters received in 1988. They are listed alphabetically by title within each research field. Also included in the bibliography is an alphabetical listing of the 1988 NRL authors.
CONTENTS

1988 Journal Articles and Books .............................................................. 1
1988 Formal and Memorandum Reports .................................................. 63
NRL Authors — 1988 ............................................................................. 73
1988 Journal Articles and Books
by the Naval Research Laboratory

**Acoustics**


Exact but Computationally Intensive Predictions for CW Point Source in an Ideal Wedge, by...
EILEEN PICKENPAUGH


Piezoelectric Ceramic Reproducibility for 33 Mode Transducer Applications, by Tims, A.C., Carson, D.L., and Benthien, G.W., Proceedings of the Sixth

Artificial Intelligence


**Atmospheric Sciences**


Submicrosecond Structure of the Radiation Fields from Multiple Events in Lightning Flashes, by Bailey, J., Willett, J.C., Krider, E.P., and Leteinturier, C., *8th International Conference on...*
EILEEN PICKENPAUGH

Atmospheric Electricity, Institute of High Voltage Research, Uppsala, Sweden, 1988, pp. 458-463


Sixth International Conference on the Physics of Non-Crystalline Solids, 1987


Biosciences


Recent Developments in Fiber Optic Biosensors, by Thompson, R.B. and Ligler, F.S., SPIE 904:27-34.


Ceramics, Glasses, and Plastics


Far Infrared Dielectric Loss and Low Frequency Raman Scattering in Chalcogenide Glasses, by Strom, U., Culbertson, J.C.,* and Freitas, J.A.,* Twelfth International Conference on Infrared and


Reaction Sintering High-Density, Fine-Grained Ba2YCu3O6.5+x Superconductors Using Ba(OH)2 · H2O, by Wallace, J.S.,* Bender, B.A., Lawrence, S.H., and Schrodt, D.J., Ceramic Superconductors II, American Ceramic Society, Inc., Westerville, Ohio, 1988, pp. 243-251


Research in Ceramics at the U.S. Naval Research Laboratory, by Lewis, D., American Ceramic Society Bulletin 67:1349-1356, 1988


Transformation Toughening in Large-Grain-Size CeO2-Doped ZrO2 Polycrystals, by Coyle, T.W.,* Coblenz, W.S.,* and Bender, B.A., Journal of the American Ceramic Society 71:C-88-C-92, 1988

Chemistry


A Synchrotron Radiation Study of BaO Films on W(001) and Their Interaction with H2O, CO2 &
Eileen Pickenpaugh


A Synthetic Route to Peptide Modified Nylons, by Mera, A.E. and Griffith, J.R., Polymer Preprints 29:182-183, 1988


Detection of Hazardous Vapors Including Mixtures Using Pattern Recognition of Responses


Elastomer-Modified Epoxy Resins, by Ting, R.Y., Epoxy Resins, Chemistry and Technology, Marcel Dekker, Inc., NY, 1988, pp. 551-601


Ground States and Ionization Energies of Si3H6, Si3H8, Si4H10, and Si4H12, by Ortiz, J.V.* and Mintmire, J.W., Journal of the American Chemical Society 110:4522-4527, 1988


High Molecular Weight Boron Oxides in the Gas Phase, by Doyle, R.J., Journal of the American Chemical Society 110:4120-4126, 1988


High-Performance, Electrically Conductive Polymers by Keller, T.M., CHEMTECH 18:635-639, 1988


Phase Characteristics of Positional Isomers of 1, 2-di(heptacosadiynol)-sn-glycero-3-phosphocholine; Tubule-Forming Phosphatidylcholines, by Rudolph, A.S., Singh, B.P., Singh, A.,* and Burke, T.G.,* Biochimica et Biophysica Acta 943:454-462, 1988


Production and Fragmentation of Antimony and Bismuth Cluster Ions, by Ross, M.B. and McElvany, S.W., Journal of Chemical Physics 89:4821-4828, 1988


NRL REPORT 9251


Communications


Developments in Arctic Longwave Propagation


Computer Sciences


An Extension of “Representative Instances and γ-Acyclic Relational Schemes,” by Jajodia, S.,


Cosmic Rays


New Semiempirical Equation Parameters for Cross Sections of Elements 21<Z<83, by


**Electronics and Electricity**


Efficiency Enhancement in GYRO-BWO by Tapered Magnetic Field, by Ganguly, A.K. and


Multiple-Valued Logic For Optoelectronics, by Abraham, G., Optical Engineering 25:3-13, 1986


EILEEN PICKENPAUGH


Fluid Mechanics


Geosciences


Seismic Anisotropy in Mylonites; An Example from the Mannin Thrust Zone, Southwest Connemara, Ireland, by Chrosston, P.N.* and Max, M.D., Tectonophysics 148:29-39, 1988


Instrumentation


EILEEN PICKENPAUGH


Laser Science


Diode-Pumped 1.34 μm Nd:YAlO3 Laser, by Scarl, D., Feldman, B., and Burnham, R.,* Topical


Laser Action with (F2+)4 Centers in Additively Colored Lithium–Doped KI, by Foster, D.R.* and Schneider, I., Optics Letters 13:207–208, 1988


Recent Developments in Diode Pumped Rare Earth Lasers, by Esterowitz, L., Topical Meeting
EILEEN PICKENPAUGH


Magnetism

Domain Images of Ultrathin Fe Films on Ag(100),
by Robins, J.L.* Celoria, R.J.* Unguris, J.*
Pierce, D.T.* Jonker, B.T., and Prinz, G.A.,

Dynamic Sensitivity and Thermal Noise Analysis
of a Magnetoelastie Amorphous Metal
Low-Frequency Magnetometer, by Mermelstein,
M.D. * and Dandridge, A., Applied Physics Letters
51:1640-1642, 1987

Electrical Transport Properties of Thin Epitaxially
Grown Iron Films, by Rubinstein, M., Rachford,
F.J., Fuller, W.W., and Prinz, G.A., Physical
Review B 37:8689-8700, 1988

Electrical Transport Properties of Thin Epitaxially
Grown Iron Films on GaAs, by Rachford, F.J.,
Physics 63:4291-4293, Proceedings of the Thirty-
Second Annual Conference on Magnetism and
Magnetic Materials, 1988

Epitaxial Growth and X-Ray Structural
Characterization of Zn1-x Fe x Se Films on
GaAs(001), by Jonker, B.T., Qadri, S.B., Krebs,
and Technology A 6:1946-1949, Proceedings of the
34th National Symposium of the American Vacuum
Society, Part II, 1988

Existence and Finite-Dimensionality of Attractors
for the Landau-Lifschitz Equations, by Gill, T.L. *
and Zachary, W.W., Differential Equations and
134-142

Magnetic and Crystallographic Characterization
of Zn0.75Fe0.25Se and FeSe Films on GaAs(001),
by Jonker, B.T., Krebs, J.J., Qadri, S.B., Prinz,
Applied Physics 63:3303-3305, 1988

Magnetic and Structural Properties of
Fe(100)/Ag(100) Single-Crystal Multilayer Films
with Ultrathin Fe Layers, by Krebs, J.J., Jonker,
63:3467-3469, Thirty-Second Annual Conference on
Magnetism and Magnetic Materials, 1988


Mechanics

The Dynamics of Slack Marine Cables, by Griffin, O.M., Seventh International Conference on Offshore Mechanics and Arctic Engineering, American Society of Mechanical Engineers, NY, 1988, pp. 481-488

Metallurgy


An XPS Study of Passive Film Formation on Iron in Chromate Solutions, by McCafferty, E., Murday, J.S., and Bennett, M.K., Corrosion Science 28:559-576, 1988


Cleavage-Like Fracture Along Slip Planes in Fe-18Cr-3Ni-13Mn-0.37N Austenitic Stainless Steel at Liquid Helium Temperature, by Tobler, R.L. and Meyn, D., Metallurgical Transactions A 19A:1626-1631, 1988


Effect of pH on Corrosion and Monotonic Loading Behaviour of 90Cu-10Ni in 3.5% Sodium Chloride Solution, by Harvey, D.P., Sudarshan, T.S.,* and
Louthan, M.R.,* British Corrosion Journal
23:61-65, 1988


Fractal Characterization of Fractured Surfaces in Ti-4.5Al-5.0Mo-1.5Cr (Corona 5), by Richards, L.E. and Dempsey, B.D., Scripta Metallurgica 22:687-689, 1988


Impact Behavior of 90Cu-10Ni Using Subsized Specimens - Role of Temperature and Hydrogen, by Harvey, D.P. and Sudarshan, T.S.,* Materials Science and Technology 4:251-256, 1988


**Nuclear Science**


**Ocean Science and Technology**


Towed Ocean Sensor System (TOSS), by Morris, W. D., Hill, R. H., and Karweit, M.* Oceans 87


Optical Sciences


A High-Speed InP-Based In0.5Ga0.5As Schottky Barrier Infrared Photodiode for Fiber Optic Communications, by Kim, J.H.* Li, S.S.*, Figueroa, L.*, Carruthers, T.F., and Wagner, R.S.*, Journal of Applied Physics 64:6536–6540, 1988


NRL REPORT 9251


Elimination of Polarization Induced Signal Fading in Interferometric Fiber Sensors Using Input


High-Speed Ga0.47In0.53As/InP Infra-red Schottky-Barrier Photodiodes, by Kim, J.H.,* Li, S.S.,* Figueroa, L.,* Carruthers, T.F., and Wagner, R.S.,* Electronics Letters 24:1067-1068, 1988


Integrated Fiber Optic Phase Modulators, by Lagakos, N. and Bucaro, J.A., 34th International Instrumentation Symposium, Instrument Society of
America, Research Triangle Park, NC, 1988, pp. 111–119


EILEEN PICKENPAUGH


Observation of Input-Polarization-Induced Phase Noise in Interferometric Fiber-Optic Sensors, by Kersey, A.D., Marrone, M.J., and Dandridge, A., Optics Letters 13:847-849, 1988


Special Information Processing Capabilities of the Photoemitter Membrane Light Modulator (PEMLM), by Ling, L.C.,* Fukuda, R.C.,* Fisher,
EILEEN PICKENPAUGH


Total Fluorescent Scattering Cross Sections, by Chew, H., Physical Review A 37:4107-4110, 1988


Physics


Wavelengths for the \(3s^2 1S_0 - 3s^3 p^3 P_j\) Transition of the Magnesiumlike Ions Fe\(^{14+}\) Through Nd\(^{48+}\), by Seely, J.F., Feldman, U., Ekberg, J.O.,* Schwob, J.L.,* Suckewer, S.,* and Wouters, A.,* Journal of the Optical Society of America B 5:602-605, 1988


Least Maximum Entropy and Minimum Uncertainty Coherent States, by Rajagopal, A.K.

Methods and Applications of Nonlinear Dynamics, by Saenz, A.W., ed., World Scientific, Singapore, 1988

Particle Occupation Factors Without Large Number Approximations, by Rajagopal, A.K. and Teitler, S., Physica A 147A:627-635, 1988


Plasma Physics


An Artificial Excitation of Convective Fluid Instabilities in Ionosphere, by Chaturvedi, P.K., Guzdar, P.N., Ossakow, S.L., Keskinen, M.J., and
EILEEN PICKENPAUGH


Kinetic Theory for Electrostatic Waves Due to Transverse Velocity Shears, by Ganguli, G.*, Lee.
EILEEN PICKENPAUGH


Production and Control of Ion–Cyclotron Instabilities in the High Latitude Ionosphere by High Power Radio Waves, by Chaturvedi, P.K.,


NRL REPORT 9251


Radiation Technology


EILEEN PICKENPAUGH

Evaluating Solar Cells in Space, by Walker, D.H.,
*Journal of the National Technical Association*
62:1:111-126, 1988

Extreme Damage Events Produced by Single
Particles, by Burke, E.A.* and Summers, G.P.,
*IEEE Transactions on Nuclear Science*
NS-34:1575-1579, 1987

Ionizing Radiation Effects in N-Channel (Hg,
Cd)Te MISFETs with Anodic Sulfide Passivation,
by Waterman, J.R.,
*IEEE Transactions on Nuclear Science*
NS-34:1597-1601, 1987

Laser Created X-Ray Sources for
Microlithography, by Chaker, M.*, Pepin, H.*,  
Bareau, V.*, Boily, S.*, Lafontaine, B.*, Fabbro, R.*,  
Nagel, D., and Peckerar, M.C.,
*SPIE 733:58-64, Soft X-Ray Optics and Technology. Society of
Photo-Optical Instrumentation Engineers, Bellingham, WA, 1986

Light–Ion–Bombarded p-Type In_{0.53}Ga_{0.47}As, by  
Rao, M.V.*, Babu, R.S.*, Dietrich, H.B., and  
Thompson, P.E.,
*Journal of Applied Physics*
64:4755-4759, 1988

Molecular Dynamics of Clusters of Particles
Interacting with Pairwise Forces Using a
Massively Parallel Computer, by Boyer, L.L. and  
Pawley, G.S.*,  
*Journal of Computational Physics*
78:405-423, 1988

Multilayer Roughness Evaluated by X-Ray
Reflectivity, by Rosen, D.L.*, Brown, D.B.,  
Gilfrich, J.*, and Burkhalter, P.,
*Journal of Applied Crystallography*
21:136-144, 1988

Optical Performance of the Naval Research
Laboratory’s Materials Analysis Beam Line at the
NSLS, by Neiser, R.A.*, Kirkland, J.P.*, Elam,  
W.T., and Sampath, S.*,  

PIN Diode Detectors for Synchrotron X-Rays, by  
Kirkland, J.P.*, Jach, T.*, Neiser, R.A.*, and  
Bouldin, C.E.*,  

Practical Approach to Ion Track Energy
Distribution, by Stapor, W.J. and McDonald, P.T.,
*Journal of Applied Physics*
64:4430-4434, 1988

Pressure Studies of ZrO_{2}-Al_{2}O_{3} Films Grown by
Magnetron Sputtering, by Qadri, S.B.*, Skelton,  
E.F., Quinn, C.*, and Gillmore, C.*,  
*Physical Review B* 38:13415-13417, 1988

Quantification of the Memory Imprint Effect for a
Charged Particle Environment, by Bhuvu, B.L.*,  
Kerns, S.E.*, Stapor, W.J., Campbell, A.B., and  
Xapsos, M.A.,
*IEEE Transactions on Nuclear Science*
NS-34:1414-1418, 1987

Radiation Effects on Electrical Insulation, by
Campbell, F.J.,
*IEEE Electrical Insulation Magazine*  
4:30-34, 1988

Resistance of Holograms Made in Polaroid
DMP128 Photopolymer to Ionizing Radiation
Damage, by Golden, J.P., Summers, G.P., and  
Carter, W.H.,

Short-Pulse X-Ray Diffraction from
Laser-Shocked Crystals, by Wark, J.S.*, Whitlock,  
R.R., Hauer, A.*, Swain, J.E.*, and Solone, P.J.*,  
*Shock Waves in Condensed Matter 1987, Elsevier

Space Environmental Effects, by Statler, R.L.,
*Ninth Space Photovoltaic Research and Technology
Conference, NASA Lewis Research Center, 1988,

Space Environmental Effects, by Statler, R.L.,
*Ninth Space Photovoltaic Research and Technology
Conference, NASA Lewis Research Center, 1988,

Space Environmental Effects, by Statler, R.L.,
*Ninth Space Photovoltaic Research and Technology
Conference, NASA Lewis Research Center, 1988,

Space Environmental Effects, by Statler, R.L.,
*Ninth Space Photovoltaic Research and Technology
Conference, NASA Lewis Research Center, 1988,

Space Environmental Effects, by Statler, R.L.,
*Ninth Space Photovoltaic Research and Technology
Conference, NASA Lewis Research Center, 1988,

Space Environmental Effects, by Statler, R.L.,
*Ninth Space Photovoltaic Research and Technology
Conference, NASA Lewis Research Center, 1988,

Space Environmental Effects, by Statler, R.L.,
*Ninth Space Photovoltaic Research and Technology
Conference, NASA Lewis Research Center, 1988,

Space Environmental Effects, by Statler, R.L.,
*Ninth Space Photovoltaic Research and Technology
Conference, NASA Lewis Research Center, 1988,

Space Environmental Effects, by Statler, R.L.,
*Ninth Space Photovoltaic Research and Technology
Conference, NASA Lewis Research Center, 1988,

Space Environmental Effects, by Statler, R.L.,
*Ninth Space Photovoltaic Research and Technology
Conference, NASA Lewis Research Center, 1988,

Space Environmental Effects, by Statler, R.L.,
*Ninth Space Photovoltaic Research and Technology
Conference, NASA Lewis Research Center, 1988,

Space Environmental Effects, by Statler, R.L.,
*Ninth Space Photovoltaic Research and Technology
Conference, NASA Lewis Research Center, 1988,

Space Environmental Effects, by Statler, R.L.,
*Ninth Space Photovoltaic Research and Technology
Conference, NASA Lewis Research Center, 1988,

Space Environmental Effects, by Statler, R.L.,
*Ninth Space Photovoltaic Research and Technology
Conference, NASA Lewis Research Center, 1988,

Space Environmental Effects, by Statler, R.L.,
*Ninth Space Photovoltaic Research and Technology
Conference, NASA Lewis Research Center, 1988,

Space Environmental Effects, by Statler, R.L.,
*Ninth Space Photovoltaic Research and Technology
Conference, NASA Lewis Research Center, 1988,

Space Environmental Effects, by Statler, R.L.,
*Ninth Space Photovoltaic Research and Technology
Conference, NASA Lewis Research Center, 1988,

Space Environmental Effects, by Statler, R.L.,
*Ninth Space Photovoltaic Research and Technology
Conference, NASA Lewis Research Center, 1988,

Space Environmental Effects, by Statler, R.L.,
*Ninth Space Photovoltaic Research and Technology
Conference, NASA Lewis Research Center, 1988,

Space Environmental Effects, by Statler, R.L.,
*Ninth Space Photovoltaic Research and Technology
Conference, NASA Lewis Research Center, 1988,

Space Environmental Effects, by Statler, R.L.,
*Ninth Space Photovoltaic Research and Technology
Conference, NASA Lewis Research Center, 1988,

Space Environmental Effects, by Statler, R.L.,
*Ninth Space Photovoltaic Research and Technology
Conference, NASA Lewis Research Center, 1988,

Space Environmental Effects, by Statler, R.L.,
*Ninth Space Photovoltaic Research and Technology
Conference, NASA Lewis Research Center, 1988,

Space Environmental Effects, by Statler, R.L.,
*Ninth Space Photovoltaic Research and Technology
Conference, NASA Lewis Research Center, 1988,

Space Environmental Effects, by Statler, R.L.,
*Ninth Space Photovoltaic Research and Technology
Conference, NASA Lewis Research Center, 1988,


Depth Profiling High Tc Materials with 6.2 MeV He Ion Elastic Backscattering by Gossett, C.R.,


EILEEN PICKENPAUGH


Energetics and Deep Levels of Interstitial Defects in the Compound Semiconductors GaAs, A1As, ZnSe, and ZnTe, by Jansen, R.W., Wolde-Kidane, D.S.*, and Sankey, O.F.*, Journal of Applied Physics 64:2415-2421, 1988


Explanation of Mechanical and Electrical Relaxation Due to Mobile Ions in a Supersonic Glass over the Range 1Hz - 20 GHz by the Coupling Theory, by Ngai, K.L. and Rendell R.W., Physical Review B 38:9987-9995, 1988

F2- Centers in LiF, by Schneider, I., Solid State Communications 64:969-970, 1987


Far Infrared Magneto-Absorption Study of Barrier Impurities and Screening in GaAs/AlGaAs Multiple Quantum Wells, by Glaser, E., Shanabrook, B.V., Wagner, R.J., Hawkins, R.L., Moore, W.J., and Musser, D.*, Journal de Physique
Colloque No. 5 48:C5-239–C5-242, 3rd International Conference on Modulated Semiconductor Structures, 1987


High Temperature Superconductors: Electronic Structure Changes due to Replacement of La with Ba and Sr in the Cu–O–based Systems, by Krakauer, H., Pickett, W.E., Papaconstantopoulos,
EILEEN PICKENPAUGH


Localized and Canonical Atomic Orbitals in Self-Interaction Corrected Local Density Functional Approximation, by Pederson, M.R. and


EILEEN PICKENPAUGH


NATO Advanced Study Institute on Superconducting Electronics, by Nisenoff, M. and Ritter, J.C., European Scientific Notes Information Bulletin 88:10:31-34


Paramagnetic Decomposition Products from Energetic Materials, by Pace, M.D., Britt, A.D., and Moniz, W.B., NSWC MP 86-194:734-741, 1988
Proceedings of the Eighth Symposium (International) on Detonation, Naval Surface Weapons Center, Silver Spring, MD, 1985


Properties of Bi–Sr–Ca–Cu–O High Tc Superconductors By Coprecipitation Processing.


Simulation of the Polarizable-ion Dynamics of Rb2ZnCl4, by Edwardson, P.J. and Hardy, J.R.,* Physical Review B 38:3825-3833, 1988


EILEEN PICKENPAUGH


Surface EXAFS Study of Surface BaO Layers on Tungsten Surfaces, by Shih, A., Hor, C., Mueller, D., Marrian, C. R. K., Elam, W. T., Wolf, P.


Theory of High–Tc Superconductors within a Realistic Anderson Lattice Model, by Newns.


Space Science and Technology


55
EILEEN PICKENPAUGH


Being Optimistic About the Search for Extraterrestrial Intelligence, by Schwartzman, D.* and Rickard, L.J., American Scientist 76:364-369, 1988


CO Pedestal Features from IRAS Sources in Dark Clouds, by Schwartz, P.R., Gee, G.*, and Huang, Y.L.*, Astrophysical Journal 327:350-355, 1988


Gamma-Ray Line Diagnostics of Novae, by Leising, M.D., AIP Conference Proceedings


Neutrons and Gamma Rays from the 1982, June 3 Solar Flare, by Murphy, R.J. and Ramaty, R.,* Processes at the Surface and Inside the Sun, 20th International Cosmic Ray Conference, Moscow, USSR, 1987, pp. 144-157

EILEEN PICKENPAUGH

Nuclear Processes and Accelerated Particles in Solar Flares, by Ramaty, R.*, and Murphy, R.J., Space Science Reviews 45:213–268, 1987


The Application of a Maximum Likelihood Analysis to Detection of Sources in the ROSAT Data Base, by Cruddace, R.G., Hasinger, G.R.,* and Schmitt, J.H.,* Astronomy from Large Databases, ESO Conference and Workshop Proceedings No. 28, European Southern Observatory, Garching, Germany, 1988, pp. 177-182


Structure Research


Structure of 1, 4-Difluoro-1, 1, 4, 4-tetranitro-2, 3-butanediyl Diacetate, by Flippen-Anderson, J.L., George, C., and Gilardi, R., *Acta Crystallographica C* C44:1494-1495, 1988


Symmetrically Hydrogen-Bonded "Binitrosamine Cation" Produced on Protonation of N-Nitrosopyrrolidine, by Keefer, L.K.*, Hrabie,
EILEEN PICKENPAUGH


A Constraint Algorithm for Maintaining Rigid Bonds in Molecular Dynamics Simulations of Large Molecules, by Lambrakos, S.G., Boris, J.P., Oran, E.S., Chandrasekhar, I.*, and Nagumo, M., NRL-MR-6174, 03/04/88. From NTIS as ADA191663

A Design Concept for Reliable Mobile Radio Networks with Frequency-Hopping Signaling, by Wieselthier, J.E., Baker, D.J., and Ephremides, A.*, NRL-9137, 09/30/88. From NTIS as ADA200928


A Method for Automatically Translating Trace Specifications Into Prolog, by Meadows, C.A., NRL-9131, 09/30/88. From NTIS as ADA200993

A New Class Cross Sections for Use in Atomic Scattering Calculations, by Mueller, G.P., NRL-MR-6292, 09/16/88. From NTIS as ADA199542

A Note on Deriving a Result in Decision Theory, by Miller, A.R. and Feuerman, M., NRL-MR-6177, 06/09/88. From NTIS as ADA196230

A Note on Incomplete Integrals of Cylindrical Functions, by Miller, A.R., NRL-9127, 06/21/88. From NTIS as ADA197822

A Numerically–Efficient Digital Matched Filter for Periodic and Windowed Periodic Waveforms, by Gerlach, K., NRL-9055, 02/26/88. From NTIS as ADA193132

A Probabilistic Model of the Apparent Radiance of a Rough Sea, by Priest, R.G. and Schwartz, I.B., NRL-MR-6092, 03/04/88. From NTIS as ADA193867

A Review of the Propagation of Pressure Pulses Produced by Small Underwater Explosive Charges, by Temkin, S.*, NRL-MR-6181, 05/05/88. From NTIS as ADA194642

A Submillimeter Wavelength Space–Based Imaging Radar, by Manheimer, W.M., NRL-9111, 05/31/88. From NTIS as ADA195846

A Technique for Recording HF Oblique–Incidence–Sounder Data, by Daehler, M.,
EILEEN PICKENPAUGH

NRL-MR-6269, 08/30/88, From NTIS as ADA200168


A Tutorial on Imaging, by Carter, W.H., NRL-9136, 08/24/88 From NTIS as ADA199367

A Users'/Programmers' Manual For TWAKE, by Swean, T.F., NRL-MR-6201, 05/06/88, From NTIS as ADA193043

Analysis of Free Electron Laser Performance Utilizing the National Bureau of Standards' CW Microtron, by Tang, C.M., Sprangle, P., Penner, S.,* and Maruyama, X.K.,* NRL-MR-6146, 05/19/88, From NTIS as ADA196928

Adaptive Canceler Limitations Due to I, Q Mismatch Errors, by Gerlach, K.R.. NRL-9115, 11/23/88, From NTIS as ADA2142087

Adaptive Human–Computer Interfaces, by Norcio, A.F. and Stanley, J.. NRL-9148, 09/30/88, From NTIS as ADA200930

Adaptive Phase-Shifter Nulling Techniques for Large-Aperture Phased Arrays, by Gabriel, W.F.,* NRL-9132, 08/15/88, From NTIS as ADA199950

Aerosol Charge Distributions Produced by Radioactive Ionizers, by Frick, G.M. and Hoppel, W.A., NRL-9108, 05/18/88. From NTIS as ADA196233


Alternative Trace Axioms for the WHILE Construct, by Cross, C.B., NRL-MR-6359, 10/21/88, From NTIS as ADA200346

An Electron Ring Extraction Scheme from the Modified Betatron Accelerator, by Kapetanakos, C.A., Marsh, S.I.,* and Dialetis, D.,* 

NRL-MR-6214, 06/27/88, From NTIS as ADA196747

Analysis of Anomalous Resistivity During the Conduction Phase of the Plasma Erosion Opening Switch, by Ottinger, P.F., Grossmann, J.M., and Kulsrud, R.,* NRL-MR-6149, 02/02/88, From NTIS as ADA192179

Analysis of Environmental Parameters from the 1978 Panama City Tower Radar Experiment, by Martin, L.U. and Trizna, D.B., NRL-MR-6100, 05/12/88 From NTIS as ADA194994

Analysis of GEOSAT Radar Altimeter Errors Based on Pre-Launch Test Data, by Miller, L.S., Uliana, E.A., Shuhy, J., Choy, L.W., Hayne, G.S.,* and Hancock, D.,* NRL-MR-6244, 06/28/88, From NTIS as ADA197818


Applications of Layered Synthetic Microstructures in Vacuum Ultraviolet and Soft X-Ray Grating Spectrometers, by Rife, J.C., NRL-MR-6278, 09/14/88, From NTIS as ADA199539

Appropriate Analytical Formulae for Electron Density and Collision Frequency in the Natural and Nuclear Disturbed Ionosphere and Inner Magnetosphere, by Keskinen, M.J. and Fedder, J.A., NRL-MR-6134, 02/22/88, From NTIS as ADA193129

Approximate Calculation of Low Forward Speed Ship Radiation and Diffraction Wave Patterns, by Wang, H.T., NRL-MR-6161, 08/26/88 From NTIS as ADA199355


Asymptotic Growth of Cumulative and Regenerative Beam Break-up Instabilities in Accelerators, by Lau, Y.Y., NRL-MR-6237, 06/28/88, From NTIS as ADA198072

64
EILEEN PICKENPAUGH

Wicinski, T.J., NRL-9124, 06/30/88, From NTIS as ADA197825

Distinction Between Technologies and Capabilities within the Military Critical Technologies List (MCTL), by Winslow, L.M., NRL-MR-6200, 03/30/88, From NTIS as ADA191623


Design, Test, and Evaluation of a Pair of Bootlace Lenses, by Stilwell, P.D., Parent, M.G., Coleman, H.P., and Wright, B.D., NRL-MR-6204, 07/06/88, From NTIS as ADA197817

Phase-Locked Gyrotron Oscillator, by Fliflet, A.W., Gold, S.H., and Manheimer, W.M., NRL-MR-6204, 07/06/88, From NTIS as ADA197817

Development of a Nitrile Rubber for Dynamic Damping, by Thompson, C.M., NRL-MR-6104, 05/13/88, From NTIS as ADA194060


Electrostatic Ion Instabilities in the Presence of Parallel Currents and Transverse Electric Fields, by Ganguli, G. and Palmadesso, P.J., NRL-MR-6217, 07/13/88, From NTIS as ADA199735


Electrostatic Ion Instabilities in the Presence of Parallel Currents and Transverse Electric Fields, by Ganguli, G. and Palmadesso, P.J., NRL-MR-6217, 07/13/88, From NTIS as ADA199735

ENEWS Resource Program Description, by Hamilton, Z.B., NRL-9117, 07/08/88, From NTIS as ADA197824

Environmental Measurements in the McKinley Climatic Laboratory Main Chamber, May 2–10, 1988, by Frick, G.M. and Hoppel, W.A., NRL-MR-6352, 10/05/88, From NTIS as ADA200296

Epitaxial Garnet Investigation; Technical Report, Foreign Travel, by Craig, A.E., NRL-MR-6364, 10/25/88, From NTIS as ADA200295

Estimation of the Yield Strength of Metals from Crystal Defect Energies, by Harvey, D.P. and Jolles, M.I., NRL-MR-6276, 09/27/88, From NTIS as ADA200380
Evaluation and Additional Documentation of the Parabolic Marching Code Surfwake, by Miner, E.W., Trosch, A.,* and Swean, T.F., NRL-MR-6331, 09/22/88, From NTIS as ADA200321

Final Focusing of Intense Ion Beams with Radially Nonuniform Current Density Z-Discharges, by Watrous, J. and Ottinger, P.F., NRL-MR-6338, 10/26/88, From NTIS as ADA200347

Fortran Codes for Computing the Space-Time Correlations of Turbulent Flow in a Channel, by Handler, R.A. and Rosenthal, F., NRL-MR-6381, 12/30/88, From NTIS as ADA203746


Further Studies on Toxin Detection Based on the CO₂ Production by Yeast, by Hannan, P.J. and Smith, S.L., NRL-MR-6197, 05/13/88 From NTIS as ADA195076

Gram-Schmidt Implementation of a Linearly Constrained Adaptive Array, by Gerlach, K., NRL-9056, 02/26/88, From NTIS as ADA193130

Guided Radiation Beams in Free Electron Lasers, by Ting, A.,* Sprangle, P., Hafizi, B.,* and Tang, C.M., NRL-MR-6207, 05/19/88, From NTIS as ADA194525

Halo Formation and Hollowing in Relativistic Electron Beams, by Hubbard, R.F., Lampe, M., Slinker, S.P., and Joyce, G., NRL-MR-6172, 08/10/88, From NTIS as ADA199734

Hanex Simulations of Laser-Target Interactions: I. Radiation Processes, by Giuliani, J.L., Mulbrandon, M., and Hyman, E.,* NRL-MR-6223, 06/08/88, From NTIS as ADA197965

Hydrazine Detection Using Langmuir-Blodgett Films of a Nickel Dithiolene Complex on Chemiresistor Sensors, by Grate, J., Rose-Pehrsson, S., and Barger, W., NRL-MR-6242, 07/05/88, From NTIS as ADA198606

Images of the Geopotential, by Melvin, P.J., NRL-9155, 11/14/88, From NTIS as ADA202672

Implementing Recurrent Back-Propagation on the Connection Machine, by Deprit, E.M., NRL-9167, 12/02/88, From NTIS as ADA203796

Incomplete Lipschitz-Hankel Integrals of MacDonald Functions, by Miller, A.R., NRL-9112, 03/15/88, From NTIS as ADA191034


Investigation of the Spectral Decomposition of Quadrature Error Signals, by Faurer, C.C., NRL-MR-6258, 08/12/88, From NTIS as ADA199000

Kinetic Theory for Electrostatic Waves Due to Transverse Velocity Shears, by Ganguli, G.,* Lee, Y.C.,* and Palmedesso, P.J., NRL-MR-6135, 02/22/88, From NTIS as ADA193404

Laser Wakefield Acceleration and Relativistic Optical Guiding, by Sprangle, P., Joyce, G., Esarey, E.,* and Ting, A.,* NRL-MR-6267, 09/12/88, From NTIS as ADA200381


Measurement and Interpretation of North Atlantic Ocean Marine Radar Sea Scatter, by Trizna, D.B., NRL-9099, 05/31/88, From NTIS as ADA196239

Momentum Flux Increases and Coherent-Structure Dynamics in a Subsonic Axisymmetric Free Jet, by Grinstein, F.F., Oran, E.S., and Hussain, F.,* NRL-MR-6279, 08/19/88, From NTIS as ADA198360

Near Field Turbulent Wake Predictions, by Stewart, M.B., NRL-MR-6366, 11/08/88, From NTIS as ADA200467

Nonlinear Dynamics of Coupled Oscillator Arrays, by Mosher, D., NRL-MR-6144, 03/18/88. From NTIS as ADA194888

Nonlinear Theory of Phase Locking Gyrotron Oscillators Driven by an External Signal, by Fliflet, A.W. and Manheimer, W.M., NRL-MR-6180, 07/15/88, From NTIS as ADA198675


Numerical Simulations of the Flowfield in Central-Dump Ramjet Combustors. II. Effects of Inlet and Combustors Acoustics, by Kailasanath, K., Gardner, J.H., Boris, J.P., and Oran, E.S., NRL-MR-6213, 07/08/88, From NTIS as ADA196743

Ocean and Ship Wave Modifications by a Surface Wake Flow Pattern, by Griffin, O.M., Keramidas, G.A., Swain, T.F., and Wang, H.T., NRL-MR-6094, 08/01/88, From NTIS as ADA198788

On the Generation of Waveforms Having Comb-Shaped Spectra, by Black, B., NRL-MR-6190, 05/06/88. From NTIS as ADA196927


Optimal and Robust Memoryless Discrimination from Dependent Observations, by Sauder, D.W., NRL-MR-6340, 11/09/88, From NTIS as ADA202671

Over-the-Horizon Radar Detection of Targets via Specular Reflection from Meteor Trails, by Pilon, R.O., NRL-MR-6348, 09/27/88, From NTIS as ADA199540


Photoabsorption and Photoionization Cross Sections of O, O2 and N2 for Photoelectron Production Calculations: A Compilation of Recent Laboratory Measurements, by Conway, R.R., and Mosher, D., NRL-MR-6180, 05/06/88, From NTIS as ADA193866

PLOTSPEC - A FORTRAN 77 Program for Plotting Spectral Data from the Varian Cary 2390 UV-VIS-NIR Spectrophotometer, by Cooper, J.C. and Binstead, R.A.,* NRL-MR-6155, 03/29/88, From NTIS as ADA200351

Precise Interferometric Phase Determination, by Stamper, J.A., NRL-MR-6160, 08/30/88, From NTIS as ADA200186


Propagation of Charged Particle Beams in the Atmosphere, by Lampe, M., NRL-MR-6159, 03/04/88, From NTIS as ADA193185
Radar Detection of Hydrocarbon Gas Seepage Associated with Underground Oil and Gas Deposits, by Skolnik, M.I., NRL-MR-6245, 07/12/88, From NTIS as ADA199354

Radar Information from the Partial Derivatives of the Echo Signal Phase from a Point Scatterer, by Skolnik, M.I., NRL-MR-6148, 02/17/88, From NTIS as ADA193402


Segmentation of Synthetic Aperture Radar (SAR) Images of Ocean Surface by the Texture Energy Transform Method, by Du, L.J., NRL-MR-6259, 08/17/88, From NTIS as ADA199536

Shipboard Test of the Forward Scattering Meter: Preliminary Results (July 1987), by James, J.E. and Larson, R.E., NRL-MR-6226, 08/03/88, From NTIS as ADA198999

Sidelobe Level of an Adaptive Array Using the SMI Algorithm, by Gerlach, K.R., NRL-9079, 02/26/88, From NTIS as ADA193131

Simulation of Electrostatic Modes in a Magnetoplasma with Transverse Inhomogeneous Electric Field, by Nishikawa, K.I., Ganguli, G., Lee, Y.C., and Palmadesso, P.J., NRL-MR-6206, 05/31/88, From NTIS as ADA198823

Slotted-Waveguide Amplifiers for Millimeter Waves, by Smith, S.T., NRL-MR-6423, 10/31/88, From NTIS as ADA207932


Solution to the Compressible Navier-Stokes Equations of Motion by Chebyshev Polynomials for Laminar Shock-Boundary Layer Flow, by Sakell, L., NRL-MR-6152, 03/18/88, From NTIS as ADA191033

Solution to the Compressible Navier-Stokes Equations of Motion by Chebyshev Polynomials with Implicit Time Stepping, by Sakell, L., NRL-MR-6153, 03/18/88, From NTIS as ADA194135

Spectral Line Shapes From Highly Ionized Sodium Plasmas, by Burkhalter, P.G., Mehlman, G.*, and Newman, D.A.*, NRL-MR-6186, 03/08/88, From NTIS as ADA193401


Stochastic Electron Detrapping in FELs Caused by Sidebands, by Tang, C.M. and Riyopoulos, S.*, NRL-MR-6224, 07/14/88, From NTIS as ADA198361


Subroutine Probdif., by Trunk, G.V., NRL-MR-6254, 09/12/88, From NTIS as ADA199541
Surface Tension and Viscosity with Lagrangian Hydrodynamics on a Triangular Mesh, by Fyfe, D.E., Oran, E.S., and Fritts, M.J.* NRL-MR-6185, 03/18/88. From NTIS as ADA194120

Survey of European Studies on the Far Field Characteristics of a Source Oscillating and Translating Near a Free Surface, by Wang, H.T., NRL-MR-6078, 03/16/88. From NTIS as ADA191395

Tapered Wiggler Analysis of High Gain Free Electron Laser Oscillators (revised 03/01/88), by Tang, C.M., Sprangle, P., and Marable, W.P.* NRL-MR-5854 REV. 12/12/87 and 03/01/88. From NTIS as ADA191692

The BMAP-Tracker Experiment, by Srou, R.E., Lucke, R.L., and Kershenstein, J.C., NRL-MR-6241, 07/05/88. From NTIS as ADA198789

The Chord Distribution of a Right Circular Cylinder, by Langworthy, J.B., NRL-MR-6220, 07/22/88. From NTIS as ADA198002


The Effect of First Reflections in the Dynamic Tear Test, by Gensheimer, V.M., Brock, L.M.*, and Jolles, M.I., NRL-MR-6232, 09/08/88. From NTIS as ADA199538

The Effect of High Heating Rate on the Pyrolysis of Carbon/Phenolic Composites, by Boyle, M.E., Cozzens, R.F., and McPherson, J.A.* NRL-MR-6343, 09/20/88. From NTIS as ADA200320

The Effects of a DC Electric Field on the Current Driven Ion Cyclotron Instability, by Chaturvedi, P.K., Palmadesso, P.J., Ossakow, S.L., Ganguli, G.*, and Lee, Y.C.* NRL-MR-6139, 01/19/88. From NTIS as ADA188877

The Electron - Water Vapor (H2O) Collision Cross Sections, by Ali, A.W., NRL-MR-6268, 08/26/88. From NTIS as ADA200187

The Ex-Shadwell—Full Scale Fire Research and Test Ship, by Charhart, H.W. and Williams F.W., NRL-MR-6074 (Revised 1/20/88), 01/20/88. From NTIS as ADA198605

The Gradient Method for Interface Tracking, by Laskey, K.J.*, Oran, E.S., and Boris, J.P., NRL-MR-6183, 05/31/88. From NTIS as ADA194477

The Influence of Weld Metal Properties, Weld Geometry, and Applied Load on Weld System Performance, by Matic, P. and Jolles, M.I., NRL-MR-5987, 02/25/88. From NTIS as ADA193403

The NRL Data Base of Oblique-Incidence Soundings of the Ionosphere, by Goodman, J.M. and Daehler, M., NRL-MR-6337, 09/20/88. From NTIS as ADA199777

The NRL Phase-Locked Gyrotron Oscillator Program for SDIO/IST, by Manheimer, W.M., Fliflet, A.W., Gold, S.H., Black, W.M., Burke, J.* and Barnett, L.* NRL-MR-6163, 07/11/88. From NTIS as ADA199353


The Theory of Final Focusing of Intense Light Ion Beams, by Ottinger, P.F., Mosher, D., and Watrous, J., NRL-MR-6299, 10/26/88. From NTIS as ADA200348

Theoretical Prediction of Ripple-Load Effect on Stress-Corrosion Cracking, by Yoder, G.R., Pao, P.S., and Bayles, R.A., NRL-MR-6215, 05/31/88. From NTIS as ADA196348
Three-Dimensional Stresses in a Half-Space Caused by Penny-Shaped Inclusions, by Sanday, S.C. and Yu, H.Y.,* NRL-9134. 08/19/88, From NTIS as ADA199535

Time-Dependent Slow-Time-Scale Theory of Free-Running and Phase-Locked Gyrotron Oscillators, by Fliflet, A., Manheimer, W.M., Lee, R.C.,* and Ott, E.,* NRL-MR-6064. 01/19/88, From NTIS as ADA188910

Track Performance Considerations for Monopulse Radars, by Lin, C.T. and Howard, D.D.,* NRL-9119. 06/08/88, From NTIS as ADA196232


Unstable Waves of Jet Flows with Density Inhomogeneity, by Fung, Y.T., NRL-MR-6271. 09/23/88, From NTIS as ADA200618

Voice Communication by Ultrasonic Excitation of a Ship's Hull - A Summary of the Acoustic Problems and Solutions, by Hanish, S., NRL-9116. 03/18/88, From NTIS as ADA191624

<table>
<thead>
<tr>
<th>Name</th>
<th>Name</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Booker LB</td>
<td>Burkhalter P</td>
<td>Chang SW</td>
</tr>
<tr>
<td>Boos JB</td>
<td>Burkhalter PG</td>
<td>Charhart HW</td>
</tr>
<tr>
<td>Boris JP</td>
<td>Burn I</td>
<td>Chaskelis HH</td>
</tr>
<tr>
<td>Botteme M</td>
<td>Burnham R</td>
<td>Chaturvedi PK</td>
</tr>
<tr>
<td>Bottka N</td>
<td>Burns WK</td>
<td>Chaudhuri J</td>
</tr>
<tr>
<td>Bouldin CE</td>
<td>Burns WR</td>
<td>Chen DT</td>
</tr>
<tr>
<td>Bowen HF</td>
<td>Busse LE</td>
<td>Chen H</td>
</tr>
<tr>
<td>Bowers PF</td>
<td>Butler JE</td>
<td>Chen J</td>
</tr>
<tr>
<td>Boyer LL</td>
<td>Butz KW</td>
<td>Chen NC</td>
</tr>
<tr>
<td>Boyer RR</td>
<td>Byrd ES</td>
<td>Chen PJ</td>
</tr>
<tr>
<td>Boyle ME</td>
<td></td>
<td>Cheng CC</td>
</tr>
<tr>
<td>Bradley RR</td>
<td></td>
<td>Cherkis NZ</td>
</tr>
<tr>
<td>Brady RF</td>
<td></td>
<td>Chew H</td>
</tr>
<tr>
<td>Brant P</td>
<td></td>
<td>Chi CC</td>
</tr>
<tr>
<td>Bravy S</td>
<td>Cain JB</td>
<td>Chmura LJ</td>
</tr>
<tr>
<td>Brener NE</td>
<td>Calame G</td>
<td>Choi LS</td>
</tr>
<tr>
<td>Brenner DW</td>
<td>Callaway J</td>
<td>Choy LW</td>
</tr>
<tr>
<td>Briggs TH</td>
<td>Calvert JM</td>
<td>Chrisey DB</td>
</tr>
<tr>
<td>Brinker CJ</td>
<td>Campbell A</td>
<td>Christensen AB</td>
</tr>
<tr>
<td>Britt AD</td>
<td>Campbell AB</td>
<td>Christensen CP</td>
</tr>
<tr>
<td>Brock LM</td>
<td>Campbell FJ</td>
<td>Christian DK</td>
</tr>
<tr>
<td>Broideo DA</td>
<td>Campillo AJ</td>
<td>Christou A</td>
</tr>
<tr>
<td>Brossi A</td>
<td>Campisi G</td>
<td>Chroston PN</td>
</tr>
<tr>
<td>Broughton JQ</td>
<td>Campisi GG</td>
<td>Chu KR</td>
</tr>
<tr>
<td>Broussard PR</td>
<td>Cane HV</td>
<td>Chu X</td>
</tr>
<tr>
<td>Brown CM</td>
<td>Cantrell BH</td>
<td>Chubb SR</td>
</tr>
<tr>
<td>Brown DB</td>
<td>Carbone C</td>
<td>Chun MK</td>
</tr>
<tr>
<td>Brown JF</td>
<td>Carlos WE</td>
<td>Chupp EC</td>
</tr>
<tr>
<td>Brown LW</td>
<td>Carrington WA</td>
<td>Chupp EL</td>
</tr>
<tr>
<td>Brown RB</td>
<td>Carroll TL</td>
<td>Claassen JH</td>
</tr>
<tr>
<td>Brown WK</td>
<td>Carruthers GR</td>
<td>Clamons D</td>
</tr>
<tr>
<td>Brozena JM</td>
<td>Carruthers TF</td>
<td>Clark AV</td>
</tr>
<tr>
<td>Brueckner GE</td>
<td>Carson DL</td>
<td>Clark R</td>
</tr>
<tr>
<td>Brundage WL</td>
<td>Carter FL</td>
<td>Cleary DD</td>
</tr>
<tr>
<td>Brust JP</td>
<td>Carter WH</td>
<td>Coblenz WS</td>
</tr>
<tr>
<td>Brynildsen N</td>
<td>Carter WL</td>
<td>Cocking JL</td>
</tr>
<tr>
<td>Bucaro JA</td>
<td>Casey HC</td>
<td>Cohen RE</td>
</tr>
<tr>
<td>Bucholtz F</td>
<td>Castaneda C</td>
<td>Cohn M</td>
</tr>
<tr>
<td>Buckingham M</td>
<td>Caulfield HJ</td>
<td>Cole GH</td>
</tr>
<tr>
<td>Buckland SJ</td>
<td>Cavenett BC</td>
<td>Coleman HP</td>
</tr>
<tr>
<td>Bulmer CH</td>
<td>Celii FG</td>
<td>Colombant D</td>
</tr>
<tr>
<td>Bunding Lee KA</td>
<td>Celotta RJ</td>
<td>Colombant DG</td>
</tr>
<tr>
<td>Buot FA</td>
<td>Cerza M</td>
<td>Colton RJ</td>
</tr>
<tr>
<td>Burke DP</td>
<td>Chaker M</td>
<td>Commissio RJ</td>
</tr>
<tr>
<td>Burke EA</td>
<td>Chaki TK</td>
<td>Contrata W</td>
</tr>
<tr>
<td>Burke J</td>
<td>Champagne LF</td>
<td>Contreras P</td>
</tr>
<tr>
<td>Burke JM</td>
<td>Chandrasekhar I</td>
<td>Conway RR</td>
</tr>
<tr>
<td>Burke R</td>
<td>Chang CI</td>
<td>Cook JW</td>
</tr>
<tr>
<td>Burke TG</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>Name</td>
<td>Name</td>
</tr>
<tr>
<td>---------------</td>
<td>---------------</td>
<td>---------------</td>
</tr>
<tr>
<td>Dalziel A</td>
<td>Dominguez DD</td>
<td>Emery MH</td>
</tr>
<tr>
<td>Dalziel AW</td>
<td>Dominick TS</td>
<td>Engvold O</td>
</tr>
<tr>
<td>Dandridge A</td>
<td>Donovan EP</td>
<td>Ephremides A</td>
</tr>
<tr>
<td>Dariel MP</td>
<td>Doolittle R</td>
<td>Erickson WC</td>
</tr>
<tr>
<td>Das BN</td>
<td>Dorsey KL</td>
<td>Ervin AM</td>
</tr>
<tr>
<td>DasGupta A</td>
<td>Doschek GA</td>
<td>Esarey E</td>
</tr>
<tr>
<td>Dave JH</td>
<td>Dose V</td>
<td>Esman RD</td>
</tr>
<tr>
<td>Davidson FM</td>
<td>Dote J</td>
<td>Esterowitz L</td>
</tr>
<tr>
<td>Davidson KL</td>
<td>Dote JL</td>
<td>Everett SS</td>
</tr>
<tr>
<td>Davis J</td>
<td>Doubleday C</td>
<td>Eversole JD</td>
</tr>
<tr>
<td>Davis MA</td>
<td>Doyle RJ</td>
<td>Ewbank JD</td>
</tr>
<tr>
<td>de Guel GR</td>
<td>Dozier CM</td>
<td>Ewing JA</td>
</tr>
<tr>
<td>de Lyon TJ</td>
<td>Drake JF</td>
<td>Eybert-Berard A</td>
</tr>
<tr>
<td>de Queiroz JF</td>
<td>Driscoll RJ</td>
<td></td>
</tr>
<tr>
<td>DeBlasio L</td>
<td>Du LJ</td>
<td></td>
</tr>
<tr>
<td>Decina BA</td>
<td>Dubleday PS</td>
<td></td>
</tr>
<tr>
<td>Decina BB</td>
<td>Dufour RJ</td>
<td></td>
</tr>
<tr>
<td>deCosta B</td>
<td>Duigman MT</td>
<td></td>
</tr>
<tr>
<td>Deebel N</td>
<td>Dulcey CS</td>
<td></td>
</tr>
<tr>
<td>DeGiorgi VG</td>
<td>Duling IN</td>
<td></td>
</tr>
<tr>
<td>Deguzman J</td>
<td>Duling In</td>
<td></td>
</tr>
<tr>
<td>Deir M</td>
<td>Dumelow T</td>
<td></td>
</tr>
<tr>
<td>DeJong K</td>
<td>Duncan LM</td>
<td></td>
</tr>
<tr>
<td>Delamere WA</td>
<td>Duncan MD</td>
<td></td>
</tr>
<tr>
<td>Del Santo PP</td>
<td>Dunlap BI</td>
<td></td>
</tr>
<tr>
<td>Del Santo PP</td>
<td>Dustin D</td>
<td></td>
</tr>
<tr>
<td>Dempsey BD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Denney PE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dennison B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dennison BD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dennison BK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dennison, BR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deprit EM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dere KP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Desch MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deschamps JR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deshpande MN</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Desilva AW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deweert MJ</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DeWeert MJ</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dialetis D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DiBenigno MK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diebel DL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dietrich DD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dietrich</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dietrich HB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DiLella D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disch MD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disch ML</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name1</td>
<td>Name2</td>
<td>Name3</td>
</tr>
<tr>
<td>------------</td>
<td>------------</td>
<td>------------</td>
</tr>
<tr>
<td>Hiser SC</td>
<td>Imam MA</td>
<td>K</td>
</tr>
<tr>
<td>Hjellming RM</td>
<td>Incorvati L</td>
<td>Kahn M</td>
</tr>
<tr>
<td>Hobbs CE</td>
<td>Ingel RP</td>
<td>Kahn WK</td>
</tr>
<tr>
<td>Hobbs RW</td>
<td>Ito C</td>
<td>Kailasanath K</td>
</tr>
<tr>
<td>Hodes HD</td>
<td></td>
<td>Kaiser JAC</td>
</tr>
<tr>
<td>Hoff HA</td>
<td></td>
<td>Kaiser ML</td>
</tr>
<tr>
<td>Hoffman AF</td>
<td></td>
<td>Kaiser WC</td>
</tr>
<tr>
<td>Hoffman CA</td>
<td></td>
<td>Kaiser WJ</td>
</tr>
<tr>
<td>Hoffman WF</td>
<td></td>
<td>Kamm GN</td>
</tr>
<tr>
<td>Holm RT</td>
<td></td>
<td>Kana-ah A</td>
</tr>
<tr>
<td>Holmes BS</td>
<td></td>
<td>Kanbach G</td>
</tr>
<tr>
<td>Holtz RL</td>
<td></td>
<td>Kanert O</td>
</tr>
<tr>
<td>Hong M ed.</td>
<td></td>
<td>Kant RA</td>
</tr>
<tr>
<td>Hooper WP</td>
<td></td>
<td>Kapetanakas</td>
</tr>
<tr>
<td>Hoppel WA</td>
<td></td>
<td>Kapetanakos CA</td>
</tr>
<tr>
<td>Hor C</td>
<td></td>
<td>Kaplan CR</td>
</tr>
<tr>
<td>Horne MP</td>
<td></td>
<td>Kaplan GH</td>
</tr>
<tr>
<td>Horwitz JS</td>
<td></td>
<td>Kaplan R</td>
</tr>
<tr>
<td>Hota N</td>
<td></td>
<td>Karle IL</td>
</tr>
<tr>
<td>Howard DD</td>
<td></td>
<td>Karle J</td>
</tr>
<tr>
<td>Howard RA</td>
<td></td>
<td>Karle JM</td>
</tr>
<tr>
<td>Howerton MM</td>
<td></td>
<td>Karpen JT</td>
</tr>
<tr>
<td>Hrabie JA</td>
<td></td>
<td>Kawai N</td>
</tr>
<tr>
<td>Hsu DSY</td>
<td></td>
<td>Karweit M</td>
</tr>
<tr>
<td>Huang Y</td>
<td></td>
<td>Kasowski RV</td>
</tr>
<tr>
<td>Huang YL</td>
<td></td>
<td>Kasper RG</td>
</tr>
<tr>
<td>Huba J</td>
<td></td>
<td>Kassim N E</td>
</tr>
<tr>
<td>Huba JD</td>
<td></td>
<td>Kassim NE</td>
</tr>
<tr>
<td>Hubbard R</td>
<td></td>
<td>Kaufman MJ</td>
</tr>
<tr>
<td>Hubbard RF</td>
<td></td>
<td>Kaufman V</td>
</tr>
<tr>
<td>Hubler GK</td>
<td></td>
<td>Kawai N</td>
</tr>
<tr>
<td>Hues SM</td>
<td></td>
<td>Kawayoshi H</td>
</tr>
<tr>
<td>Huffman RE</td>
<td></td>
<td>Kayser DC</td>
</tr>
<tr>
<td>Hughes H</td>
<td></td>
<td>Kazi H</td>
</tr>
<tr>
<td>Hughes HL</td>
<td></td>
<td>Kearney KJ</td>
</tr>
<tr>
<td>Humphreys L</td>
<td>Jones EC</td>
<td>Kearney M</td>
</tr>
<tr>
<td>Hung H-L A</td>
<td>Jones LK</td>
<td>Keating MP</td>
</tr>
<tr>
<td>Hussain F</td>
<td>Jones ME</td>
<td>Keefer LK</td>
</tr>
<tr>
<td>Huston AL</td>
<td>Jones RH</td>
<td>Keenan FP</td>
</tr>
<tr>
<td>Hutson FL</td>
<td>Jones RL</td>
<td>Keller MR</td>
</tr>
<tr>
<td>Hyman E</td>
<td>Jones RS</td>
<td>Keller TM</td>
</tr>
<tr>
<td>Hynesec JA</td>
<td>Jordan AR</td>
<td>Keller WC</td>
</tr>
<tr>
<td>Iczerda YU</td>
<td>Joseph CL</td>
<td>Kellogg JC</td>
</tr>
<tr>
<td>Idone VP</td>
<td>Joyce G</td>
<td>Kelly FJ</td>
</tr>
<tr>
<td>Jurs PC</td>
<td>Joyce TB</td>
<td>Kelner G</td>
</tr>
<tr>
<td>Justus BL</td>
<td>Judy J</td>
<td>Kendall DL</td>
</tr>
<tr>
<td>Kunaweyo H</td>
<td>Jurkevich I</td>
<td>Kennedy TA</td>
</tr>
<tr>
<td>Name</td>
<td>Article</td>
<td>Author</td>
</tr>
<tr>
<td>-----------------------</td>
<td>--------------</td>
<td>----------------</td>
</tr>
<tr>
<td>McCurdy AH</td>
<td>Mick S</td>
<td>MulBrandon M</td>
</tr>
<tr>
<td>McDonald K</td>
<td>Middleditch J</td>
<td>Mundy JN</td>
</tr>
<tr>
<td>McDonald PT</td>
<td>Mied R</td>
<td>Murday JS</td>
</tr>
<tr>
<td>McDonough WJ</td>
<td>Mied RP</td>
<td>Murphy RJ</td>
</tr>
<tr>
<td>McElvany SW</td>
<td>Mignogna RB</td>
<td>Mushrush G</td>
</tr>
<tr>
<td>McGarry EC</td>
<td>Mikkelsen T</td>
<td>Mushrush GW</td>
</tr>
<tr>
<td>McGill RA</td>
<td>Miles RO</td>
<td>Musser D</td>
</tr>
<tr>
<td>McGregor RN</td>
<td>Miller AR</td>
<td>Much RL</td>
</tr>
<tr>
<td>McHugh M</td>
<td>Miller JB</td>
<td>Muchler D</td>
</tr>
<tr>
<td>McIlvaine CL</td>
<td>Miller LS</td>
<td></td>
</tr>
<tr>
<td>McIntyre D</td>
<td>Miller MT</td>
<td></td>
</tr>
<tr>
<td>McIver JW</td>
<td>Milliken J</td>
<td></td>
</tr>
<tr>
<td>McLean EA</td>
<td>Milton AF</td>
<td></td>
</tr>
<tr>
<td>McLean EA</td>
<td>Miner EW</td>
<td></td>
</tr>
<tr>
<td>McLean J</td>
<td>Minter JW</td>
<td></td>
</tr>
<tr>
<td>McLeanan G</td>
<td>Mitchell HG</td>
<td></td>
</tr>
<tr>
<td>McMahon JM</td>
<td>Mittleman SD</td>
<td></td>
</tr>
<tr>
<td>McMarr PJ</td>
<td>Mochel JM</td>
<td></td>
</tr>
<tr>
<td>McPherson JA</td>
<td>Modolo JA</td>
<td></td>
</tr>
<tr>
<td>Meadows C</td>
<td>Moeller RP</td>
<td></td>
</tr>
<tr>
<td>Meadows CA</td>
<td>Moffat TP</td>
<td></td>
</tr>
<tr>
<td>Meger RA</td>
<td>Mohamed MH</td>
<td></td>
</tr>
<tr>
<td>Mehl ME</td>
<td>Moniz WB</td>
<td></td>
</tr>
<tr>
<td>Mehl MJ</td>
<td>Monts DL</td>
<td></td>
</tr>
<tr>
<td>Meilman G</td>
<td>Moon DW</td>
<td></td>
</tr>
<tr>
<td>Mei Q</td>
<td>Moore PG</td>
<td></td>
</tr>
<tr>
<td>Meier RR</td>
<td>Moore WJ</td>
<td></td>
</tr>
<tr>
<td>Meissner KE</td>
<td>Morgan K</td>
<td></td>
</tr>
<tr>
<td>Melvin PJ</td>
<td>Morkoc H</td>
<td></td>
</tr>
<tr>
<td>Memmel N</td>
<td>Morris JP</td>
<td></td>
</tr>
<tr>
<td>Menon R</td>
<td>Morris RE</td>
<td></td>
</tr>
<tr>
<td>Menyuk CR</td>
<td>Morris S</td>
<td></td>
</tr>
<tr>
<td>Mera AE</td>
<td>Morris WD</td>
<td></td>
</tr>
<tr>
<td>Merlin R</td>
<td>Morrish AA</td>
<td></td>
</tr>
<tr>
<td>Merzelstein MD</td>
<td>Morrison MD</td>
<td></td>
</tr>
<tr>
<td>Merritt CD</td>
<td>Moruzzi VL</td>
<td></td>
</tr>
<tr>
<td>Messina DC</td>
<td>Mosher D</td>
<td></td>
</tr>
<tr>
<td>Messner RA</td>
<td>Mostafa AA</td>
<td></td>
</tr>
<tr>
<td>Metler WA</td>
<td>Mostovych AN</td>
<td></td>
</tr>
<tr>
<td>Metzbower EA</td>
<td>Mount GH</td>
<td></td>
</tr>
<tr>
<td>Meulenberg A</td>
<td>Mowery R</td>
<td></td>
</tr>
<tr>
<td>Meyer JR</td>
<td>Mowery RL</td>
<td></td>
</tr>
<tr>
<td>Meyers WD</td>
<td>Mowrey RC</td>
<td></td>
</tr>
<tr>
<td>Meyn D</td>
<td>Mowry R</td>
<td></td>
</tr>
<tr>
<td>Michaels LA</td>
<td>Mrstik BJ</td>
<td></td>
</tr>
<tr>
<td>Michalowicz JV</td>
<td>Mueller D</td>
<td></td>
</tr>
<tr>
<td>Michel DJ</td>
<td>Mueller DR</td>
<td></td>
</tr>
<tr>
<td>Michelson PF</td>
<td>Mueller GP</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>N</td>
</tr>
<tr>
<td></td>
<td>Nagel D</td>
<td>Nam CH</td>
</tr>
<tr>
<td></td>
<td>Nagi A</td>
<td>Namenson A</td>
</tr>
<tr>
<td></td>
<td>Nagumo M</td>
<td>Namenson AI</td>
</tr>
<tr>
<td></td>
<td>Neidert RE</td>
<td>Nash AG</td>
</tr>
<tr>
<td></td>
<td>Neihof RA</td>
<td>Natishan PM</td>
</tr>
<tr>
<td></td>
<td>Neiser RA</td>
<td>Neufert FP</td>
</tr>
<tr>
<td></td>
<td>Nelson HH</td>
<td>Neubert ME</td>
</tr>
<tr>
<td></td>
<td>Nemes JA</td>
<td>Newman DA</td>
</tr>
<tr>
<td></td>
<td>Neri JM</td>
<td>Newman HS</td>
</tr>
<tr>
<td></td>
<td>Netzer FP</td>
<td>Newns DM</td>
</tr>
<tr>
<td></td>
<td>Neubert ME</td>
<td>Ngai KL</td>
</tr>
<tr>
<td></td>
<td>Newman DA</td>
<td>Nguyen M</td>
</tr>
<tr>
<td></td>
<td>Newman HS</td>
<td>Nieser RA</td>
</tr>
<tr>
<td></td>
<td>Newns DM</td>
<td>Nisenoff M</td>
</tr>
<tr>
<td></td>
<td>Ngai KL</td>
<td>Nishikawa KI</td>
</tr>
<tr>
<td></td>
<td>Nguyen M</td>
<td>Noakes MD</td>
</tr>
<tr>
<td></td>
<td>Nieser RA</td>
<td>Norcio AF</td>
</tr>
<tr>
<td></td>
<td>Nisenoff M</td>
<td>Nordquist PER</td>
</tr>
<tr>
<td></td>
<td>Nordquist PER</td>
<td>Norris JP</td>
</tr>
<tr>
<td></td>
<td>Norris JP</td>
<td>Nowak RJ</td>
</tr>
<tr>
<td></td>
<td>Nowak RJ</td>
<td>Obenschain SP</td>
</tr>
<tr>
<td></td>
<td>Odenwald S</td>
<td></td>
</tr>
</tbody>
</table>

79
EILEEN PICKENPAUGH

Patnaik G
Patnaik PC
Patnaik P
Patnaik PC
Pawley C
Pawley CJ
Pawley GS
Paxton LJ
Peckerar MC
Pecora MR
Pederson MR
Pehrsson PE
Pellegrino J
Pellegrino JG
Peltzer RD
Pender J
Penner S
Pepin H
Perez A
Perez JM
Perkins JS
Perozzo MA
Perry CH
Perry RK
Pershing DE
Peter M
Peterkin RE
Peters MF
Petersen EL
Peterson KE
Peterson MH
Petron A
Peyser FA
Peyser P
Peyser TA
Phillips G
Phillips GW
Phillips NE
Phillips RH
Pickett CW
Pickett WE
Picone JM
Pierce DT
Pierrot M
Pilon RO
Piquette JC
Place TA
Plant WJ
Ploog K
Podlesnik DV
Pohanka RC
Pollak FH
Pomrenke GS
Pond JM
Pons S
Powell RC
Praca JCG
Pranke JB
Preston FL
Price C
Price R
Price RR
Priddy T
Priest G
Priest RG
Prinz DK
Prinz GA
Prokes S
Prokes SM
Provenzano V
Purcell WR
Rachford FJ
Rafferty M
Raghothama
Rajagopal AK
Rajaram M
Ramaker DE
Ramaty R
Ramberg SE
Ramsey CL
Rangaswamy R
Rangelov G
Rao MV
Rasolt M
Rath BB
Raymond JC
Raymond JP
Rayne RJ
Read ME
Reader J
Reed JR
Reilly MH
Reinecke TL
Reintjes J
Rendell RW
Reno RC
Reppin C
Rensing HA
Revesz AG
Reynolds GW
Rhoads FJ
Rhodes DG
Rice K
Rice RW
Richards LE
Richardson CB
Richardson GY
Richardson MC
Richmond E
Richmond ED
Rickard LJ
Riedi PC
Rife JC
Riggs K
Ripin BH
Ritter JC
Ritz V
Riyopoulos
Riyopoulos S
Roach GF
Roberson CW
Robins JL
Robins LH
Robinson AZ
Roditis N
Rodriguez P
Rogers JCW
Rogers PH
Rogerson JE
Roland CM
Rolison D
Rolison DR
Roman E
Rosch N
Rose-Pehrsson S
Rose-Pehrsson SL
Rosen DL
Rosen M
Rosenau TJ
Rosenblatt C
Rosenblum L
Rosenblum LJ
Rosenthal F
Rosina G
Ross MM
Roussos JA
Rowan WL
Rowley DA
Royce RK
Rubin R
Rubinovitz RL
Rubinstein M
Rudgers AJ
Rudin S
Rudolph A
Rudolph AS
Saalfeld H
Sadana K
Sadeghi HR
Saenz AW
Saenz AW ed.
Sakell L
Saks NA
Saks NS
Sampath S
Sanday SC
Sangston KJ
Sankey OF
Sarkady K
Sartwell BD
Sasshgyi KD
Sasson P
Satya YS
Satyanarayana P
Satyshur MP
Sauder DW
<table>
<thead>
<tr>
<th>Name</th>
<th>Name</th>
<th>Name</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sciarl D</td>
<td>Shaw McBee SE</td>
<td>Smith SL</td>
<td>Stoloff NS</td>
</tr>
<tr>
<td>Schaefer MW</td>
<td>Sheeley NR</td>
<td>Smith ST</td>
<td>Stolovy A</td>
</tr>
<tr>
<td>Schaefer L</td>
<td>Sheffield J</td>
<td>Smith T</td>
<td>Stone RG</td>
</tr>
<tr>
<td>Schau HC</td>
<td>Shelby JE</td>
<td>Smuda JW</td>
<td>Stonesifer FR</td>
</tr>
<tr>
<td>Schaum A</td>
<td>Shelby R</td>
<td>Snail KA</td>
<td>Storm KL</td>
</tr>
<tr>
<td>Scheff K</td>
<td>Sheres D</td>
<td>Snow A</td>
<td>Storm ME</td>
</tr>
<tr>
<td>Schepler KL</td>
<td>Sheridan JP</td>
<td>Snow AW</td>
<td>Stratton LP</td>
</tr>
<tr>
<td>Scherrr VE</td>
<td>Shi L</td>
<td>Snow E</td>
<td>Strickland DJ</td>
</tr>
<tr>
<td>Schetzina JF</td>
<td>Shih A</td>
<td>Snow ES</td>
<td>Strickman MS</td>
</tr>
<tr>
<td>Schiff K</td>
<td>Shimp D</td>
<td>Snyder WA</td>
<td>Strobel EL</td>
</tr>
<tr>
<td>Schiff KM</td>
<td>Shirk JS</td>
<td>Socker D</td>
<td>Strom U</td>
</tr>
<tr>
<td>Schilling MT</td>
<td>Shirley J</td>
<td>Socker DG</td>
<td>Suckewer S</td>
</tr>
<tr>
<td>Schmidt H</td>
<td>Shirron J</td>
<td>Soicher H</td>
<td>Sucy M</td>
</tr>
<tr>
<td>Schmidt WA</td>
<td>Shirron J</td>
<td>Soicer SA</td>
<td>Sudarshan TS</td>
</tr>
<tr>
<td>Schmidt-Nielsen A</td>
<td>Shiy J</td>
<td>Solone PJ</td>
<td>Sugar J</td>
</tr>
<tr>
<td>Schmitt AJ</td>
<td>Siatkowski RE</td>
<td>Soltani EC</td>
<td>Sukumar M</td>
</tr>
<tr>
<td>Schmitt JH</td>
<td>Sica L</td>
<td>Soulen RJ</td>
<td>Summers GP</td>
</tr>
<tr>
<td>Schneider I</td>
<td>Siegel J</td>
<td>Spencer JH</td>
<td>Sutton CS</td>
</tr>
<tr>
<td>Schnur JM</td>
<td>Siemon RE</td>
<td>Spencer MG</td>
<td>Swain JE</td>
</tr>
<tr>
<td>Schoen PE</td>
<td>Silberberg R</td>
<td>Spezio AE</td>
<td>Swean TF</td>
</tr>
<tr>
<td>Schott J</td>
<td>Silberberg RS</td>
<td>Spielman BE</td>
<td>Sweeringen JD</td>
</tr>
<tr>
<td>Schrodi DJ</td>
<td>Sillmon RS</td>
<td>Sprague JA</td>
<td>Swickert SL</td>
</tr>
<tr>
<td>Schroeter T</td>
<td>Simon R</td>
<td>Sprangle P</td>
<td>Syphers DA</td>
</tr>
<tr>
<td>Schuetz LS</td>
<td>Simon RS</td>
<td>Sprangle PA</td>
<td>Szpaks S</td>
</tr>
<tr>
<td>Schuler DL</td>
<td>Simon RW</td>
<td>Springerstein FN</td>
<td>Szu H</td>
</tr>
<tr>
<td>Schulman JN</td>
<td>Singer IL</td>
<td>Springfield PJ</td>
<td>Szu HH</td>
</tr>
<tr>
<td>Schultz A</td>
<td>Singh A</td>
<td>Squire DW</td>
<td></td>
</tr>
<tr>
<td>Schulze WA</td>
<td>Singh AK</td>
<td>Sramek RA</td>
<td></td>
</tr>
<tr>
<td>Schwartz IB</td>
<td>Singh BP</td>
<td>Sroure RE</td>
<td></td>
</tr>
<tr>
<td>Schwartz PR</td>
<td>Singh C</td>
<td>Stack GM</td>
<td></td>
</tr>
<tr>
<td>Schwartzman D</td>
<td>Singh D</td>
<td>Stahlbush RE</td>
<td>Tafe PA</td>
</tr>
<tr>
<td>Schwob JL</td>
<td>Singh M</td>
<td>Stallick WM</td>
<td>Tait G</td>
</tr>
<tr>
<td>Scott C</td>
<td>Singru RM</td>
<td>Stamper JA</td>
<td>Tait GB</td>
</tr>
<tr>
<td>Scott GW</td>
<td>Sizer T</td>
<td>Stang PJ</td>
<td>Takken EH</td>
</tr>
<tr>
<td>Scribner DA</td>
<td>Skeath P</td>
<td>Stanley J</td>
<td>Tanaka K</td>
</tr>
<tr>
<td>Seaver M</td>
<td>Skelton EF</td>
<td>Stapor WJ</td>
<td>Tandberg-Hanssen E</td>
</tr>
<tr>
<td>Seely JF</td>
<td>Skolnik M</td>
<td>Statler RI</td>
<td>Tang CM</td>
</tr>
<tr>
<td>Seib KD</td>
<td>Skolnik M ed</td>
<td>Statler RL</td>
<td>Tankersley LL</td>
</tr>
<tr>
<td>Seidelmann PK</td>
<td>Skowronek C</td>
<td>Steg Y</td>
<td>Tarr JAB</td>
</tr>
<tr>
<td>Serlin V</td>
<td>Sleger K</td>
<td>Steller B</td>
<td>Taylor CJ</td>
</tr>
<tr>
<td>Sernas V</td>
<td>Sleger KJ</td>
<td>Stellingwerf RF</td>
<td>Taylor EW</td>
</tr>
<tr>
<td>Shah S</td>
<td>Sinker S</td>
<td>Stephanakis SJ</td>
<td>Taylor HF</td>
</tr>
<tr>
<td>Shaller RR</td>
<td>Sinker SP</td>
<td>Stephenson LD</td>
<td>Taylor PC</td>
</tr>
<tr>
<td>Shampine LR</td>
<td>Smathers HW</td>
<td>Stevie FA</td>
<td>Taylor RD</td>
</tr>
<tr>
<td>Shanabrook BV</td>
<td>Smidt S</td>
<td>Stewart AIF</td>
<td>Taylor RG</td>
</tr>
<tr>
<td>Shapiro MM</td>
<td>Smith HA</td>
<td>Stewart MB</td>
<td>Teitler S</td>
</tr>
<tr>
<td>Shapiro P</td>
<td>Smith HH</td>
<td>Stilwell PD</td>
<td>Temkin S</td>
</tr>
<tr>
<td>Share GH</td>
<td>Smith JJ</td>
<td>Stinecipher MM</td>
<td>Tepley CA</td>
</tr>
<tr>
<td>Shaw CM</td>
<td>Smith PL</td>
<td>Stockbauer R</td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>Name</td>
<td>Name</td>
<td>Name</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-------------------------------</td>
<td>-------------------------------</td>
<td>-------------------------------</td>
</tr>
<tr>
<td>Tessema GX</td>
<td>Tylka A</td>
<td>Walker BE</td>
<td>Wilsey ND</td>
</tr>
<tr>
<td>Thoet WA</td>
<td>Tyson J</td>
<td>Walker DH</td>
<td>Wilson JD</td>
</tr>
<tr>
<td>Thomas ED</td>
<td>U</td>
<td>Walker DN</td>
<td>Wimmer E</td>
</tr>
<tr>
<td>Thomas RE</td>
<td>U</td>
<td>Walker KH</td>
<td>Winokur PS</td>
</tr>
<tr>
<td>Thomason RH</td>
<td>U</td>
<td>Wall JA</td>
<td>Winslow LM</td>
</tr>
<tr>
<td>Thompson CM</td>
<td>U</td>
<td>Wallace JS</td>
<td>Winter R</td>
</tr>
<tr>
<td>Thompson JK</td>
<td>U</td>
<td>Wandass JH</td>
<td>Witt AN</td>
</tr>
<tr>
<td>Thompson PE</td>
<td>U</td>
<td>Wandel A</td>
<td>Wohltjen H</td>
</tr>
<tr>
<td>Thompson RB</td>
<td>U</td>
<td>Wang HT</td>
<td>Wolde-Kidane DS</td>
</tr>
<tr>
<td>Thornhill JW</td>
<td>U</td>
<td>Wang MC</td>
<td>Wolf CJ</td>
</tr>
<tr>
<td>Thorpe TP</td>
<td>U</td>
<td>Wang WI</td>
<td>Wolf E</td>
</tr>
<tr>
<td>Thurkauf A</td>
<td>U</td>
<td>Wang YM</td>
<td>Wolf P</td>
</tr>
<tr>
<td>Tiersten SC</td>
<td>Unguris J</td>
<td>Ward KB</td>
<td>Wolf PD</td>
</tr>
<tr>
<td>Tighe W</td>
<td>V</td>
<td>Ward W</td>
<td>Wolf SA</td>
</tr>
<tr>
<td>Tilford SG</td>
<td>V</td>
<td>Wark JS</td>
<td>Wolf SA ed</td>
</tr>
<tr>
<td>Tims AC</td>
<td>V</td>
<td>Warnock J</td>
<td>Wolf SM ed.</td>
</tr>
<tr>
<td>Ting A</td>
<td>V</td>
<td>Waterman JR</td>
<td>Wolff EG</td>
</tr>
<tr>
<td>Ting RM</td>
<td>V</td>
<td>Waters WM</td>
<td>Wolff MT</td>
</tr>
<tr>
<td>Ting RY</td>
<td>V</td>
<td>Watkins JM</td>
<td>Wolf S</td>
</tr>
<tr>
<td>Tobler RL</td>
<td>V</td>
<td>Watrous J</td>
<td>Wolfram KD</td>
</tr>
<tr>
<td>Tolstoy A</td>
<td>V</td>
<td>Wauchope K</td>
<td>Wolicki EA</td>
</tr>
<tr>
<td>Tolstoy I</td>
<td>V</td>
<td>Webb AW</td>
<td>Woltz LA</td>
</tr>
<tr>
<td>Toth L</td>
<td>V</td>
<td>Weber BV</td>
<td>Wood KS</td>
</tr>
<tr>
<td>Toth LE</td>
<td>V</td>
<td>Webster DC</td>
<td>Woods G</td>
</tr>
<tr>
<td>Toubhans I</td>
<td>V</td>
<td>Wei RP</td>
<td>Woods TN</td>
</tr>
<tr>
<td>Tousey R</td>
<td>V</td>
<td>Weiler KW</td>
<td>Wouterlood JEA</td>
</tr>
<tr>
<td>Trask CA</td>
<td>V</td>
<td>Weiler JS</td>
<td>Wouters A</td>
</tr>
<tr>
<td>Treado PA</td>
<td>V</td>
<td>Weinberg DL</td>
<td>Wright BD</td>
</tr>
<tr>
<td>Treileux M</td>
<td>V</td>
<td>Weiss RG</td>
<td>Wright EB</td>
</tr>
<tr>
<td>Trin TM</td>
<td>V</td>
<td>Welch Bl</td>
<td>Wu YS</td>
</tr>
<tr>
<td>Trinza DB</td>
<td>V</td>
<td>Welch BL</td>
<td>Wyatt JS</td>
</tr>
<tr>
<td>Tripathi SK</td>
<td>V</td>
<td>Weller JF</td>
<td></td>
</tr>
<tr>
<td>Trit TM</td>
<td>V</td>
<td>Wetzel LB</td>
<td></td>
</tr>
<tr>
<td>Trizna DB</td>
<td>V</td>
<td>Wexler BL</td>
<td></td>
</tr>
<tr>
<td>Troesch A</td>
<td>V</td>
<td>White CT</td>
<td></td>
</tr>
<tr>
<td>Tront JG</td>
<td>V</td>
<td>Whitlock RR</td>
<td></td>
</tr>
<tr>
<td>Trump CL</td>
<td>V</td>
<td>Whitney K</td>
<td></td>
</tr>
<tr>
<td>Trunk GV</td>
<td>V</td>
<td>Whitney WT</td>
<td></td>
</tr>
<tr>
<td>Trzaskoma PP</td>
<td>V</td>
<td>Wicinski TJ</td>
<td></td>
</tr>
<tr>
<td>Tsai TE</td>
<td>V</td>
<td>Widing KG</td>
<td></td>
</tr>
<tr>
<td>Tsang T</td>
<td>V</td>
<td>Wieseltier JE</td>
<td></td>
</tr>
<tr>
<td>Tsao CH</td>
<td>V</td>
<td>Wilhelm PG</td>
<td></td>
</tr>
<tr>
<td>Tseng W</td>
<td>V</td>
<td>Wilkes GL</td>
<td></td>
</tr>
<tr>
<td>Tseng WF</td>
<td>V</td>
<td>Wilkins B</td>
<td></td>
</tr>
<tr>
<td>Turguet de Beauregard G</td>
<td>V</td>
<td>Willett JC</td>
<td></td>
</tr>
<tr>
<td>Turner NH</td>
<td>V</td>
<td>Willey J</td>
<td></td>
</tr>
<tr>
<td>Turner RB</td>
<td>V</td>
<td>Williams FW</td>
<td></td>
</tr>
<tr>
<td>Tveten AB</td>
<td>V</td>
<td>Willner AE</td>
<td></td>
</tr>
<tr>
<td>Twigg M</td>
<td>V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Twigg ME</td>
<td>V</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

82
<table>
<thead>
<tr>
<th>Name</th>
<th>Name</th>
<th>Name</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yeh JC</td>
<td>Youngquist MJ</td>
<td>Zaidman EG</td>
<td></td>
</tr>
<tr>
<td>Ying SC</td>
<td>Yu HY</td>
<td>Zaki KA</td>
<td></td>
</tr>
<tr>
<td>Yinnen AT</td>
<td>Yurek AM</td>
<td>Zalesak ST</td>
<td></td>
</tr>
<tr>
<td>Yoder GR</td>
<td></td>
<td>Zenk P</td>
<td></td>
</tr>
<tr>
<td>Yoon T H</td>
<td></td>
<td>Zhang YQ</td>
<td></td>
</tr>
<tr>
<td>Young CW</td>
<td></td>
<td>Zhao YZ</td>
<td></td>
</tr>
<tr>
<td>Young F</td>
<td>Z</td>
<td>Zielke DM</td>
<td></td>
</tr>
<tr>
<td>Young FC</td>
<td></td>
<td>Zigler A</td>
<td></td>
</tr>
<tr>
<td>Young SR</td>
<td>Zabarnick S</td>
<td>Zucchino PM</td>
<td></td>
</tr>
<tr>
<td>Youngblood GE</td>
<td>Zachary WW</td>
<td>Zuk WM</td>
<td></td>
</tr>
<tr>
<td>Youngdale ER</td>
<td>Zadok O</td>
<td>Zuleeg R</td>
<td></td>
</tr>
</tbody>
</table>

83