

GORDON DUNN

NBS/NIST: 1961-2002

EDUCATION:

University of Washington, BS (Physics), 1953
University of Washington, PhD (Physics), 1961

CITATION:

For his internationally recognized research on electron-ion and -atom collisions critical to the understanding of high temperature plasmas; for his Division-level leadership at NBS and JILA; and for his contributions to the growth of the atomic, molecular, and optical physics community in support of nationally important programs for four decades.

POSITIONS HELD AT NBS/NIST:

NRC Postdoctoral Research Fellow, Atomic Physics Division (Boulder), 1961-1962
Research Associate, NBS and JILA (Boulder), 1962-1964
Physicist, NBS/NIST Quantum Physics Division and JILA Fellow (Boulder), 1964-2002
COMSCI Fellow, House Science and Technology Committee, 1975-1976
Chief, Quantum Physics Division, Center for Absolute Physical Quantities (Boulder), 1977-1985
Chairman, JILA (Boulder), 1987-89

HONORS:

Lecturer and Professor Adjoint, Department of Physics, University of Colorado (1964-2002)
Fellow, JILA (1964)
US Department of Commerce Gold Medal (1970)
Davisson-Germer Prize, APS (1984)
Visiting Professor, Manne Siegbahn Laboratory, Stockholm University (1996-97)
Fellow, American Physical Society
Fellow, NIST (1994)

MEMBERSHIPS:

American Physical Society
NRC Committee on Atomic, Molecular, and Optical Science
Editorial Board, Journal of Physical and Chemical Reference Data (1989-92)

PUBLICATIONS:

More than 160 publications including:

Dunn, G. and Kieffer, L.J., "Electron Impact Ionization Cross Section Data for Atoms, Atomic Ions, and Diatomic Molecules: 1. Experimental Data", *Rev. Mod. Phys.* 38, 1 (1966)
Dunn, G., "Anisotropies in Angular Distributions of Molecular Dissociation Products", *Phys. Rev. Lett.* 8, 62 (1962)
Dunn, G., Van Zyl, B., and Zare, R., "Dissociation of H_2^+ by Electron Impact", *Phys. Rev. Lett.* 15, 610 (1965)
Dunn, G., Belić, D. S., Morgan, T.J., Mueller, D.W., and Timmer, C., "Dielectronic Recombination: A crossed beams observation and measurement of cross sections", *Phys. Rev. Lett.* 50, 339 (1983)
Dunn, G., Müller, A., Belić, D. S., DePaola, B., Djurić, N., Mueller, D.W., and Timmer, C., "Field Effects on the Rydberg Product State Distribution from Dielectronic Recombination", *Phys. Rev. Lett.* 56, 127 (1986)
Dunn, G., Zong, W., Djurić, N., Larsson, M., Greene, C.H., Al-Khalili, A., Neau, A., Derkatch, A.M., Viktor, L., Shi, W., LePadellac, A., Rosen, S., Danared, H., and Af Ugglas, M., "Resonant Ion Pair Formation in Electron Collisions with Ground State Molecular Ions", *Phys. Rev. Lett.* 83, 951 (1999)