Space Science Division
Cumulative Bibliography
1989–1994

D. Morrison

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Summary

The Space Science Division at NASA's Ames Research Center is dedicated to research in astrophysics, exobiology, and planetary science. These research programs are structured around the study of origins and evolution of stars, planets, planetary atmospheres, and life, and address some of the most fundamental questions pursued by science, questions that examine the origin of life and of our place in the universe.

This bibliography is the accumulation of peer-reviewed publications authored by Division scientists for the years 1989 through 1994. The list includes 777 papers published in over 5 dozen scientific journals representing the high productivity and interdisciplinary nature of the Space Science Division.

Major elements of the Space Science Division's programs include the study of the interstellar gas and dust that form the raw material for stars, planets, and life; the processes of star and planet formation; the search for planetary systems around other stars; the evolution of planets and their atmospheres; the structure, dynamics, and chemistry of planetary atmospheres; the origin of the biogenic elements and molecules and their distribution in space; the origin of life and its early evolution on the Earth; and the search for past or present life throughout the solar system.

Space Science Division personnel participate in a variety of major NASA missions, including research flights of the Kuiper Airborne Observatory (KAO) and operations of the Pioneer and Galileo Probe planetary missions; both of these projects are operated and managed by Ames Research Center. Division scientists are also investigators, team members, or interdisciplinary scientists on the Galileo Jupiter Orbiter, Cassini mission to Saturn, Mars Surveyor, and Ulysses space missions; Division scientists are also involved in the development of the Stratospheric Observatory for Infrared Astronomy (SOFIA). Finally, we participate actively in a variety of working groups and advisory committees for NASA and the National Research Council as well as numerous professional organizations.

For further information on the Division and its research activities we can be reached by telephone at 415-604-5029; there is also a Space Science Division home page which can be accessed through the world wide web at http://www-space.arc.nasa.gov/division/.

1989 Publications


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1991 Publications


Harrison, A. A., Y.A. Clearwater, and C.P. McKay, eds.,
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Hochstein, L.I. and F. Lang, “Purification and Properties of a Dissimilative Nitrate Reductase from Haloferax

Hochstein, L.I., “Nitrate Reduction in the Extremely Halophilic Bacteria,” pp. 129-137, IN: General and


Hollenbach, D.J., T. Takahashi, and A.G.G.M. Tielens,
“Low-Density Photodissociation Regions,”

Johnson, T.V., C.M. Yeates, R.E. Young, and J. Dunne,
“The Galileo Venus Encounter,” Science

Jorgensen, B.B. and D.J. Des Marais, “The Diffusive
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over a Microbial Mat,” Limnology and

Kanavarioti, A. and M.T. Rosenbach, “Catalysis of
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Nucleotides in Phosphate Buffers,” The Journal

Kanavarioti, A., J. Lu, M.T. Rosenbach, and T.B. Hurley,
“Unexpectedly Facile Synthesis of Symmetrical
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Kim, S.J., P. Drossart, J. Caldwell, J.P. Maillard,
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J. Lecacheux, “The 2 μm Polar Haze of Jupiter,”

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Ladd, E.F., F.C. Adams, S. Casey, J.A. Davidson, G.A.
Fuller, D.A. Harper, P.C. Myer, and R. Padman,
“Far-IR and SMM Wavelength Observations of Star
Forming Dense Cores. I. Spectra,” Astrophysical

Ladd, E.F., F.C. Adams, S. Casey, J.A. Davidson, G.A.
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“Far-IR and SMM Wavelength Observations of Star
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Langevin, Y., J.-P. Bibring, B. Gondet, and D.P.
Cruikshank, “ISM Observations of the Spectral
Characteristics of Phobos in the Near Infrared,”
pp. 781-782, IN: Lunar and Planetary Science
Conference XXII, March 1991, Houston, TX

of the Strecker Synthesis as a Source of Amino
Acids on Carbonaceous Chondrites,” Meteoritics

Lindsey, C.A. and T.L. Roellig, “Telescope Beam-Profile
Diagnostics and the Solar Limb,” Astrophysical

MacLow, M.-M., D. Van Buren, D.O.S. Wood, and
E. Churchwell, “Bow Shock Models of Ultracompact

Magalhaes, J.A. and W.J. Borucki, “Spatial Distribution
of Visible Lightning on Jupiter,” Nature

Mancinelli, R.L. and M.R. White, “Methylo troph Activity
in Soil Permeated with Methane (Abt.),” American

Mancinelli, R.L. and M.R. White, “Nitrogen Fixation and
Denitrification in Microbial Mats Inhabiting Acid
and Thermal Alkaline Springs (Abt.),” American

Marley, M.S., “Nonradial Oscillations of Saturn,” Icarus


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### 1993 Publications


1994 Publications


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