

JEREMIAH P. OSTRIKER

Section I: Curriculum Vitae

Born: New York, New York, April 13, 1937
A.B. in Physics and Chemistry, Harvard, 1959
Ph.D. in Astrophysics, University of Chicago, 1964
H.D., Doctor of Science, University of Chicago, 1992
Master of Arts, University of Cambridge (England), 2002
Postdoctoral Fellow, University of Cambridge (England), 1964-65
Research Associate and Lecturer, Princeton University, 1965-66
Assistant Professor, Princeton University, 1966-68
Associate Professor, Princeton University, 1968-71
Professor, Princeton University, 1971-
Chairman, Department of Astrophysical Sciences, Princeton University and
Director, Princeton University Observatory, 1979-1995
Charles A. Young Professor of Astronomy, Princeton University, 1982-2002
Member of the Editorial Board and Trustee, Princeton University Press, 1982-84, 1986
Visiting Professor, Harvard University, and Regents Fellow, Smithsonian Institute, 1984-85, Regents
Fellow 1987
Visiting Miller Professor, University of California-Berkeley, 1990
Provost, Princeton University, 1995-2001
American Museum of Natural History, Trustee, 1997-2006; Honorary Trustee, 2007-present
Plumian Professor of Astronomy & Experimental Philosophy, IoA, Univ. of Cambridge (UK) 2001-2004
Distinguished Visitor, Institute for Advanced Study, 2004-2007
Director, Princeton Institute for Computational Science and Engineering, Princeton University, 2005-present
Treasurer, National Academy of Sciences, July 2008-2012

Awards, Prizes and Fellowships

National Science Foundation Fellowship, 1960-65
Alfred P. Sloan Fellowship, 1970-72
Helen B. Warner Prize of the American Astronomical Society, 1972
Sherman Fairchild Fellowship of California Institute of Technology, 1977
Henry Norris Russell Prize of the American Astronomical Society, 1980
Smithsonian Institution's Regents Fellowship, 1985
Fellow of the American Association for the Advancement of Science, 1992
Vainu Bappu Memorial Award of the Indian National Science Academy, 1993
Karl Schwarzschild Medal of the Astronomische Gesellschaft, 1999
U. S. National Medal of Science, 2000
Golden Plate Award of the American Academy of Achievement, 2001
Royal Astronomical Society Gold Medal, 2004

Professional Societies

American Astronomical Society, 1963-
Councilor, 1978-80
Chairman, Committee on Astronomy and Public Policy, 1988-89
International Astronomical Union, 1966-
U. S. Representative, 1978-81
Commission 48, High Energy, Vice President, 1988-91; President 1991-94
National Academy of Sciences, 1974-
Astronomy Representative, Class Membership Committee, 1977, 1978, 1987, 1988, 1993
Assembly of Mathematical and Physical Sciences, 1977-80

Commission on Physical Sciences, Mathematics and Resources, 1987-91
Committee on Astronomy and Astrophysics, 1992-95
Council Member, 1992-95
Governing Board of the NRC, 1993-95
Audit Committee, 1994-95
Executive Committee of Decennial Surveys: 1969-1973; 1978-83; 1988-91
Committee to Examine the Methodology for the Assessment of Research-Doctorate
Programs, Chair, 2002-2003
Committee to Assess Research Doctorate Programs, Chair; 2005-
Astronomy Section 12 Search Committee, 2007-
Auditing Committee, 2007-
American Academy of Arts and Sciences, 1975-
Royal Astronomical Society, Associate Member, 1994-
American Philosophical Society, 1994-
Royal Netherlands Academy of Arts and Sciences, Foreign Member, 1999-
Royal Society (London), Foreign Member, 2007-

Primary Field of Interest

Theoretical Astrophysics

JEREMIAH P. OSTRIKER**Section II: Bibliography****Research Papers, Astrophysics**

1. "Radiation Transfer in a Finite Grey Atmosphere," *Astrophysical Journal*, **138**, 281-290 (1963).
2. "The Equilibrium of Polytropic and Isothermal Cylinders," *Astrophysical Journal*, **140**, 1056-1066 (1964).
3. "The Equilibrium of Self-Gravitating Rings," *Astrophysical Journal*, **140**, 1067-1087 (1964).
4. "On the Oscillations and the Stability of a Homogeneous Compressible Cylinder," *Astrophysical Journal*, **140**, 1529-1546 (1964).
5. "Cylindrical Emden and Associated Functions," *Astrophysical Journal Supplement No. 98*, 167-183 (1965).
6. "On the Periods of Pulsating Stars" (with D. O. Gough and R. S. Stobie), *Astrophysical Journal*, **142**, 1649-1652 (1965).
7. "Equilibrium Models of Differentially Rotating Zero-Temperature Stars" (with P. Bodenheimer and D. Lynden-Bell), *Physical Review Letters*, **17**, 816-818 (1966).
8. "Ultrashort-Period Stellar Oscillations. I. Results from White Dwarfs, Old Novae, Central Stars of Planetary Nebulae, 3C273, and Scorpius XR-1" (with G. M. Lawrence and J. E. Hesser), *Astrophysical Journal Letters*, **148**, L161-L163 (1967).
9. "On the Stability of Differentially Rotating Bodies" (with D. Lynden-Bell), *Monthly Notices Royal Astronomical Society*, **136**, 293-301 (1967).
10. "Time of Relaxation: (I) Unbounded Medium" (with A. F. Davidsen), *Astrophysical Journal*, **151**, 679-686 (1968).
11. "Rapidly Rotating Stars. I. The Self-Consistent-Field Method" (with J. W.-K. Mark), *Astrophysical Journal*, **151**, 1075-1088 (1968).
12. "Rapidly Rotating Stars. II. Massive White Dwarfs" (with P. Bodenheimer), *Astrophysical Journal*, **151**, 1089-1098 (1968).
13. "Rapidly Rotating Stars. IV. Magnetic White Dwarfs" (with F. D. A. Hartwick), *Astrophysical Journal*, **153**, 797-803 (1968).
14. "Possible Model for a Rapidly Pulsating Radio Source," *Nature*, **217**, 1227-1228 (1968).
15. "On the Oscillations and Stability of Rotating Stellar Models. I. Mathematical Techniques" (with J. L. Tassoul), *Astrophysical Journal*, **154**, 613-626 (1968).

16. "Pulsation Periods of Rotating White Dwarf Models" (with J. L. Tassoul), *Nature*, **219**, 577-579 (1968).
17. "Ultrashort-Period Stellar Oscillations. II. The Period and Light Curve of HZ 29" (with J. E. Hesser), *Astrophysical Journal Letters*, **153**, L151-L156 (1968).
18. "On the Cooling of White Dwarfs" (with L. Axel), International Symposium on Low-Luminosity Stars (Charlottesville, Virginia, March, 1968) Low-Luminosity Stars (Gordon & Breach) pp. 357-363 (1969).
19. "On the Oscillations and Stability of Rotating Stellar Models. II. Rapidly Rotating White Dwarfs" (with J. L. Tassoul), *Astrophysical Journal*, **155**, 987-997 (1969).
20. "Ultrashort-Period Stellar Oscillations. III. Power Spectrum Analysis of Photometric Observations of White Dwarfs" (with J. E. Hesser and G. M. Lawrence), *Astrophysical Journal*, **155**, 919-933 (1969).
21. "Magnetic Dipole Radiation from Pulsars" (with J. E. Gunn), *Nature*, **221**, 454-456 (1969).
22. "The Acceleration of High Energy Cosmic Rays by Pulsars" (with J. E. Gunn), *Physical Review Letters*, **22**, 728-731 (1969).
23. "Do Pulsars Turn Off?" (with J. E. Gunn), *Nature*, **223**, 813-814 (1969).
24. "Sur La Stabilité Seculaire des Polytopes en Equilibre Relatif" (with J. L. Tassoul), *Astronomy and Astrophysics*, **4**, 423-427 (1970).
25. "On the Nature of Pulsars. I. Theory" (with J. E. Gunn), *Astrophysical Journal*, **157**, 1395-1417 (1969).
26. "The Acceleration of High Energy Cosmic Rays by Pulsars," Proc. XIth International Conference on Cosmic Rays, (Budapest, 1969) published *Acta Physica Academiae Scientiarum Hungaricae* **29 Suppl.**, 69-78 (1970).
27. "Fission Hypotheses and the Origin of Binary Stars," in Stellar Rotation, ed. A. Slettebak (D. Reidel: Dordrecht, Holland), pp. 147-156 (1970).
28. "On the Nature of Pulsars. III. Analysis of Observations" (with J. E. Gunn), *Astrophysical Journal*, **160**, 979-1003 (1970).
29. "Runaway Stars and the Pulsars Near the Crab Nebula" (with J. R. Gott and J. E. Gunn), *Astrophysical Journal Letters*, **160**, L91-L98 (1970).
30. "Rapidly rotating Stars. VI. Pre-Main Sequence Evolution of Massive Stars" (with P. Bodenheimer), *Astrophysical Journal*, **161**, 1101-1114 (1970).
31. "Some Observable Consequences of Accretion by Defunct Pulsars" (with M. Rees and J. Silk), *Astrophysical Letters*, **6**, 179-184 (1970).
32. "On the Motion and Radiation of Charged Particles in Strong Electromagnetic Waves. I. Motion in Plane and Spherical Waves" (with J. E. Gunn), *Astrophysical Journal*, **165**, 523-541 (1971).

33. "Do Pulsars Make Supernovae?" (with J. E. Gunn), *Astrophysical Journal Letters*, **164**, L95-L104 (1971).
34. "A Magnetic Dipole Model for the Crab Explosion," in The Crab Nebula, ed. J. G. Davies and F. G. Smith (D. Reidel: Dordrecht, Holland), pp. 392-393 (1971).
35. "The Coherent Acceleration of Cosmic Rays" (with J. E. Gunn and R. M. Kuksrud), *Physical Review Letters*, **28**, 636-639 (1972).
36. "Runaway Stars in the Gum Nebula" (with J. R. Gott, III), Proceedings of Conference on the Gum Nebula and Related Problems, ed. S. P. Maran, J. C. Brandt, T. P. Stecher, (Goddard Space Flight Center, Greenbelt, Maryland, May, 1971) pp. 42-55 (1973).
37. "A Note on Mass Loss During Collisions between Galaxies and the Formation of Giant Systems" (with J. S. Gallagher), *Astronomical Journal*, **77**, 288-291 (1972).
38. "Rapidly Rotating Stars, VIII. Zero-Viscosity Polytropic Sequences" (with P. Bodenheimer), *Astrophysical Journal*, **180**, 159-170 (1973).
39. "On the Oscillations and Stability of Rapidly Rotating Stars. III. Zero Viscosity Polytropic Sequences" (with P. Bodenheimer), *Astrophysical Journal*, **180**, 171-180 (1973).
40. "Some Remarks about the X-Rays from η Carinae" (with K. Davidson), *Nature*, **236**, 46-47 (1972).
41. "On the Evolution of Globular Clusters" (with L. Spitzer and R. A. Chevalier), *Astrophysical Journal Letters*, **176**, L51-L56 (1972).
42. "On the Critical Luminosity and Boundary Conditions for Stellar Envelopes" (with E. E. Salpeter and P. Joss), *Astrophysical Journal*, **181**, 429-438 (1973).
43. "Neutron Star Accretion in a Stellar Wind - Model for a Pulsed X-Ray Source" (with K. Davidson), *Astrophysical Journal*, **179**, 585-598 (1973).
44. "Radio Halos Around Old Pulsars - Ghost Supernova Remnants" (with R. Blandford, F. Pacini and M. Rees), *Astronomy and Astrophysics*, **23**, 145-156 (1973).
45. "Winds and X-Rays from Clusters of Galaxies" (with A. Yahil), *Astrophysical Journal*, **185**, 787-796 (1973).
46. "Dust Cooling of Hot Gas" (with J. Silk), *Astrophysical Journal Letters*, **184**, L113 (1973).
47. "A Numerical Study of the Stability of Flattened Galaxies: or, Can Cold Galaxies Survive?" (with P. J. Peebles), *Astrophysical Journal*, **186**, 467-480 (1973).
48. "Deuterium Abundance in Young Stars" (with P. Bodenheimer), *Astrophysical Journal Letters*, **184**, L15-L18 (1973).

49. "Nuclear Fusion in Accreting Neutron Stars" (with M. N. rosenbluth, M. Ruderman, F. Dyson, J. N. Bahcall and J. Shaham), *Astrophysical Journal*, **184**, 907-910 (1973).
50. "The Luminosity Function of Galactic X-Ray Sources: A Cut-Off and a 'Standard Candle'?" (with B. Margon), *Astrophysical Journal*, **186**, 91-96 (1973).
51. "Do Pulsars Make Supernovae? II. Calculations of Light Curves of Type II Events" (with P. Bodenheimer), *Astrophysical Journal*, **191**, 465-472 (1974).
52. "The Nature of Cygnus X-3: A Prototype for Old Population Binary X-Ray Sources" (with A. Davidsen), *Astrophysical Journal*, **189**, 331-338 (1974).
53. "The Accuracy of the Mass Determination of Non-Pulsating Binary X-Ray Sources" (with E. P. J. van den Heuvel), *Nature Physical Science*, **245**, 99 (1973).
54. "On the Numbers, Birth Rates, and Final States of Moderate and High Mass Stars" (with D. O. Richstone and T. X. Thuan), *Astrophysical Journal Letters*, **188**, L87-L89 (1974).
55. "Gravitational Radiation from Stellar Collapse" (with T. X. Thuan), *Astrophysical Journal Letters*, **191**, L105-L108 (1974).
56. "The 71-Sec Variation of DQ Herculis" (with W. Herbst and J. E. Hesser), *Astrophysical Journal*, **193**, 679-688 (1974).
57. "The Size and Mass of Galaxies, and the Mass of the Universe" (with P. J. E. Peebles and A. Yahil), *Astrophysical Journal Letters*, **193**, L1-L4 (1974).
58. "A Multiple Pulsar Model for Quasi-Stellar Objects and Active Galactic Nuclei" (with J. Arons and R. Kuksrud), *Astrophysical Journal*, **198**, 687-708 (1975).
59. "The Formation of Galactic Nuclei" (with S. Tremaine and L. Spitzer), *Astrophysical Journal*, **196**, 407-412 (1975).
60. "Galactic Evolution: I. Single Zone Models" (with T. X. Thuan and M. H. Hart), *Astrophysical Journal*, **201**, 756-772 (1975).
61. "Galactic Evolution: II. Disc Galaxies with Massive Halos" (with T. X. Thuan), *Astrophysical Journal*, **202**, 353-364 (1975).
62. "Explosive Events in the Early Universe" (with J. Schwarz and A. Yahil), *Astrophysical Journal*, **202**, 1-6 (1975).
63. "Massive Black Holes in Globular Clusters?" (with J. Bahcall), *Nature Physical Science*, **256**, 23 (1975).
64. "Is Deuterium of Cosmological or of Galactic Origin?" (with B. Tinsley), *Astrophysical Journal Letters*, **201**, L51-L54 (1975).
65. "Another Evolutionary Correction to the Luminosity of Giant Galaxies" (with S. D. Tremaine), *Astrophysical Journal Letters*, **202**, L113-L117 (1975).

66. "X-Ray Pulses from Globular Clusters" (with J. N. Bahcall), *Nature Physical Science*, **262**, 37-38 (1976).
67. "The Development of Compact Dust Bounded H II Regions. I. Their Relation to Infrared Objects and Maser Sources" (with W. D. Cochran), *Astrophysical Journal*, **211**, 392-399 (1977).
68. "A New Luminosity Limit for Spherical Accretion onto Compact X-Ray Sources" (with R. McCray, R. Weaver and A. Yahil), *Astrophysical Journal Letters*, **208**, L61-L65 (1976).
69. "Cooling, Dynamics and Fragmentation of Massive Gas Clouds: Clues to the Masses and Radii of Galaxies and Clusters" (with M. J. Rees), *Monthly Notices Royal Astronomical Society*, **179**, 541-559 (1977).
70. "The Mass-to-Light Ratio of Late type Binary Galaxies: Luminosity vs. Number Weighted Averages" (with E. L. Turner), *Astrophysical Journal*, **217**, 24-26 (1977).
71. "A Theory of the Interstellar Medium: Three Components Regulated by Supernova Explosions in an Inhomogeneous Substrate" (with C. F. McKee), *Astrophysical Journal*, **218**, 148-169 (1977).
72. "Cannibalism Among the Galaxies: Dynamically Produced Evolution of Cluster Luminosity Functions" (with M. A. Hausman), *Astrophysical Journal Letters*, **217**, L125-L130 (1977).
73. "The Acceleration of High Velocity Clouds in Supernova Remnants" (with C. F. McKee and L. L. Cowie), *Astrophysical Journal Letters*, **219**, L23-L28 (1978).
74. "Binaries in Open Clusters: The Effect of Rotation on Determinations of Frequency and Mass Ratio" (with V. L. Trimble), *Astronomy and Astrophysics*, **63**, 433-438 (1978).
75. "Double Core Evolution. I. A 16-Solar Mass Star with a 1-Solar Mass Neutron-Star Companion" (with R. E. Taam and P. Bodenheimer), *Astrophysical Journal*, **222**, 269-280 (1978).
76. "Particle Acceleration by Astrophysical Shocks" (with R. Blandford), *Astrophysical Journal Letters*, **221**, L29-L32 (1978).
77. "Galactic Cannibalism III: The Morphological Evolution of Galaxies and Clusters" (with M. Hausman), *Astrophysical Journal*, **224**, 320-336 (1978).
78. "Time Dependent Spherically Symmetric Accretion Onto Compact X-Ray Sources" (with L. L. Cowie and A. A. Stark), *Astrophysical Journal*, **226**, 427-441 (1978).
79. "Halos of Spiral Galaxies: Photometry and Mass-to-Light Ratios" (with H. Spinrad, R. P. S. Stone, L. T. G. Chiu and C. Bruzual), *Astrophysical Journal*, **225**, 56-66 (1978).
80. "The Mass and Light Distribution of the Galaxy: A Three-Component Model" (with J. A. R. Caldwell), in The Large-Scale Characteristics of the Galaxy, ed. W. B. Burton (D. Reidel: Dordrecht) pp. 441-450 (1979); IAU Symp. #84.

81. "The Correlation Between Luminosity and Separation in Binary Galaxy Systems: An Effect of Dynamical Friction?" (with E. L. Turner), *Astrophysical Journal*, **234**, 785-792 (1979).
82. "Supernova Shock Acceleration of Cosmic Rays in the Galaxy" (with R. D. Blandford), *Astrophysical Journal*, **237**, 793-808 (1980).
83. "Supernova Remnant Evolution in an Inhomogeneous Medium. I. Numerical Models" (with L. L. Cowie and C. F. McKee), *Astrophysical Journal*, **247**, 908-924 (1981).
84. "On the Contribution of Young Galaxies to the X-Ray Background" (with J. Bookbinder, L. L. Cowie and J. H. Krolik), *Astrophysical Journal*, **237**, 647-654 (1980).
85. "Variations on a Spherically Symmetrical Accretion Flow" (with J. A. Petterson and J. Silk), *Monthly Notices Royal Astronomical Society*, **191**, 571-580 (1980).
86. "An Early Type Binary Model for SS433" (with E. P. J. van den Heuvel and J. A. Petterson), *Astronomy and Astrophysics*, **81**, L7-L10 (1980).
87. "Galactic Cannibalism IV: The Evidence-Correlations Between Dynamical Timescales and Bautz-Morgan Type" (with T. A. McGlynn), *Astrophysical Journal*, **241**, 915-924 (1980).
88. "Galaxy Formation in an Intergalactic Medium Dominated by Explosions" (with L. L. Cowie), *Astrophysical Journal Letters*, **243**, L127-L131 (1981).
89. "Binaries in Open Clusters: II. Discrimination Between Double and Rotating Stars (with V. L. Trimble), *Astronomy and Astrophysics*, **97**, 403-406 (1981).
90. "The Mass Distribution Within Our Galaxy: A Three-Component Model" (with J. A. R. Caldwell), *Astrophysical Journal*, **251**, 61-87 (1981).
91. "The Dynamics of the Nucleus of M31" (with S. D. Tremaine), *Astrophysical Journal*, **256**, 435-446 (1982).
92. "The Structure and Expansion Law of a Shock Wave in an Expanding Universe" (with S. Ikeuchi and K. Tomisaka), *Astrophysical Journal*, **265**, 583-596 (1983).
93. "The Statistics of Gravitational Lenses: I. Apparent Changes in the Luminosity Function of Distant Sources due to Passage of Light Through a Single Galaxy" (with M. Vietri), *Astrophysical Journal*, **267**, 488-510 (1983).
94. "Physical Properties of the Intergalactic Medium and the Lyman Alpha Absorbing Clouds" (with S. Ikeuchi), *Astrophysical Journal Letters*, **268**, L63-L68 (1983).
95. "On the Trail of the Crab" (with R. Blandford, C. F. Kennel and C. F. McKee), *Nature*, **301**, 586-587 (Feb. 17, 1983).
96. "Viscous Drag on an Accretion Disc due to an Embedded Stellar System" *Astrophysical Journal*, **273**, 99-104 (1983).

97. "Shocks in Spherically Accreting Black Holes: A Model for Classical Quasars" (with P. Meszaros), *Astrophysical Journal Letters*, **273**, L59-L65 (1983).
98. "Are Cosmologically Distant Objects Obscured by Dust? A Test Using Quasars" (with J. Heisler), *Astrophysical Journal*, **278**, 1-10 (1984).
99. "Astrophysical Blastwaves" (with C. F. McKee), *Reviews of Modern Physics*, **Vol. 60**, No. 1, 1-68 (1988).
100. "The Statistics of Gravitational Lenses: The Distribution of Image Angular Separations and Lens Redshifts" (with E. L. Turner and J. R. Gott), *Astrophysical Journal*, **284**, 1-22 (1983).
101. "Gravitational Lensing by Stars in a Galaxy Halo: Theory of Combined Weak and Strong Scattering" (with R. Nityananda), *Journal of Astrophysics and Astronomy (India)*, **Vol. 5**, 235-250 (1984).
102. "Spheroidal Luminosities: A Quantitative Basis for the Galaxian Sequence" (with A. Meisels), *Astronomical Journal*, **89**, 1451-1460 (1984).
103. "Evolution of the Intergalactic Medium: What Happened During the Epoch $z = 3-10$?" (with S. Ikeuchi), *Astrophysical Journal*, **301**, 522-543 (1986).
104. "Explosions in the Early Universe" (with E.T. Vishniac and E. Bertschinger), *Astrophysical Journal*, **291**, 399-416 (1985).
105. "Standing Shocks in Accretion Flows onto Black Holes" (with K.M. Chang), *Astrophysical Journal*, **288**, 428-437 (1985).
106. "Physical Interactions Between Stars," in *Dynamics of Star Clusters*, ed. J. Goodman and P. Hut (Reidel: Dordrecht), pp. 347-360 (1985).
107. "Massive Black Holes in Galactic Halos" (with C.M. Lacey), *Astrophysical Journal*, **299**, 633-652 (1985).
108. "Statistics of Gravitational Lensing III: Astrophysical Consequences of Quasar Lensing" (with M. Vietri), *Astrophysical Journal*, **300**, pp. 68-76 (1986).
109. "Are Some BL-Lacs Artifacts of Gravitational Lensing?" (with M. Vietri), *Nature*, **318**, 446-448 (1985).
110. "Evolution of N-Body Systems with Tidally Captured Binaries through the Core Collapse Phase" (with T. Statler and H. Cohn), *Astrophysical Journal*, **316**, 626-659 (1987).
111. "Generation of Microwave Background Fluctuations from Nonlinear Perturbations of the Era of Galaxy Formation" (with E. Vishniac), *Astrophysical Journal Letters*, **306**, L51-L54 (1986).
112. "Cross Sections for Tidal Capture Binary Formation and Stellar Merger" (with H.M. Lee), *Astrophysical Journal*, **310**, 176-188 (1986).

113. "The Evolution and Final Disintegration of Spherical Stellar Systems in a Steady Galactic Tidal Field" (with H.M. Lee), *Astrophysical Journal*, **322**, 123-132 (1987).
114. "The Effect of Gravitational Lenses on the Microwave Background: The Case of 1146+111 B,C" (with E. Vishniac), *Nature*, **322**, 804 (1986).
115. "Models of the Quasar Population: I. A New Luminosity Function" (with J. Heisler), *Astrophysical Journal*, **325**, 103-113 (1988).
116. "Cosmological Effects of Superconducting Strings" (with C. Thompson and E. Witten), *Physics Letters*, **180**, 231-239 (1986).
117. "On the Flattening of Dark Haloes" (with J.J. Binney and A. May) *Monthly Notices of the Royal Astronomical Society*, **226**, 149-156 (1987).
118. "The Velocity Dispersion of Giant Molecular Clouds: A Viscous Origin" (with C. Jog), *Astrophysical Journal*, **328**, 404-426 (1988).
119. "The Pulsar in Type II Supernova in SN1987a," *Nature*, **327**, 287 (1987).
120. "Quasar Ionization of Lyman-Alpha Clouds: The Proximity Effect, A Probe of the UV Background at High Redshift" (with R.C. Duncan and S. Bajtlik), *Astrophysical Journal*, **327**, 570-583 (1988).
121. "Distortion of the Cosmic Background Radiation by Superconducting Strings" (with C. Thompson), *Astrophysical Journal Letters*, **323**, L97-L102 (1987).
122. "Models of the Quasar Population: II. The Effects of Dust Obscuration" (with J. Heisler), *Astrophysical Journal*, **332**, 543-574 (1988).
123. "Clustering and Voids in the Lyman-alpha Forest" (with S. Bajtlik, and R.C. Duncan), *Astrophysical Journal Letters*, **327**, L35-L40 (1988).
124. "On the Evolution of Globular Cluster Systems: I. Present Characteristics and Rate of Destruction in our Galaxy" (with L. Aguilar and P. Hut), *Astrophysical Journal*, **335**, 720-747 (1988).
125. "Dust in QSO Absorption-Line Systems" (with D.G. York and M.S. Vogeley), *Astrophysical Journal*, **364**, 405-411 (1990).
126. "On the Generation of a Bubbly Universe: A Quantitative Assessment of the CfA Slice" (with M. Strassler), *Astrophysical Journal*, **338**, 579-593 (1989).
127. "Superclustering in the Explosion Scenario" (with D. Weinberg and A. Dekel), *Astrophysical Journal*, **336**, 9-45 (1989).
128. The Column-Density Distribution of Lyman- α Clouds: A "Break" in $f(N)$ Due to Neutral Core Formation (with R.C. Duncan), *Astrophysical Journal*, submitted/not published (1988).
129. "Voids in the Ly α Forest" (with R.C. Duncan and S. Bajtlik), *Astrophysical Journal*, **345**, 39-51 (1989).

130. "Superclustering in the Explosion Scenario. II. Prolate Spheroidal Shells from Superconducting Cosmic Strings" (with D. Borden and D. H. Weinberg), *Astrophysical Journal*, **345**, 607-617 (1989).
131. "An Estimate of the Velocity Correlation Tensor: Cosmological Implications" (with E. Groth and R. Juszkiewicz), *Astrophysical Journal*, **346**, 558 (1989).
132. "The Effect of Galaxy Triaxiality on Globular Clusters" (with J. J. Binney and P. Saha), *Monthly Notices of the Royal Astronomical Society*, **241**, 849-871 (1989).
133. "The Stability of a Collisionless Cosmological Shell" (with S. White), *Astrophysical Journal*, **349**, 22-34 (1990).
134. "Self-Consistent Spherical Accretion Shocks Around Black Holes" (with A. Babul and P. Meszaros), *Astrophysical Journal*, **347**, 59-67 (1989).
135. "Spherical Accretion onto Black Holes: A New Higher Efficiency Type of Solution with Significant Pair Production" (with M. Park), *Astrophysical Journal*, **347**, 679-683 (1989).
136. "The Mach Number of the Cosmic Flow: A Critical Test for Current Theories" (with Y. Suto), *Astrophysical Journal*, **348**, 378-382 (1990).
137. "What Produces the Ionizing Background at Large Redshift?" (with J. Miralda-Escudé), *Astrophysical Journal*, **350**, 1-22 (1990).
138. "Are Some BL Lacs Artefacts of Gravitational Lensing: A Reprise?" (with M. Vietri), *Nature*, **344**, 45-47 (1990).
139. "Pulsar Populations and their Evolution" (with R. Narayan), *Astrophysical Journal*, **352**, 222-246 (1990).
140. "Would a Galactic Bar Destroy the Globular Cluster System?" (with K. Long and L. Aguilar), *Astrophysical Journal*, **388**, 362-371 (1992).
141. "The Universe in a Box: Thermal Effects in the Standard Cold Dark Matter Scenario" (with R.Y. Cen, A. Jameson, and F. Liu), *Astrophysical Journal Letters*, **362**, L41-L45 (1990).
142. "Lyman-Alpha Depression of the Continuum from High-Redshift Quasars: A New Technique Applied in Search of the Gunn-Peterson Effect" (with E.B. Jenkins), *Astrophysical Journal*, **376**, 33-42 (1991).
143. "Expansion-Cooled Lyman-Alpha Clouds" (with R.C. Duncan and E.T. Vishniac), *Astrophysical Journal Letters*, **368**, L1-L5 (1991).
144. "The Velocity Dispersion of Giant Molecular Clouds II: Mathematical and Numerical Refinements" (with C.F. Gammie, and C.J. Jog), *Astrophysical Journal*, **378**, 565-575 (1991).
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