

B I B L I O G R A P H Y

Roscoe B. White

I. Papers Published in Journals and Conference Proceedings

- 1 The Bethe-Salpeter Equation and the Role of Central Interactions
I. M. Dremin, I. I. Roizen, R. B. White, and D. S. Chernavsky
J. Exptl. Theoret. Phys. (USSR) [48], 952-964 (March 1965)
Sov. Phys.-JETP [21], 633-641 (September 1965)
- 2 U(12) Symmetry and Weak Interactions
K. Kawarabayashi and R. B. White
Phys. Rev. Lett. [14], 527-530 (March 1965)
- 3 The (56, 56) Contribution to the Nucleon Form Factors
R. B. White and R. Delbourgo
Nuovo Cimento [40], 1228-1232 (December 1965)

- 4 Electric-Charge Form Factor According to SL(6, C)
G. Cocho, C. Fronsdal, H. Ar-Rashid, and R. B. White
Phys. Rev. Lett. [17], 275-279 (August 1966)
- 5 Strong Vertex According to SL(6, C)
C. Fronsdal and R. B. White
Phys. Rev. [151], 1287-1292 (November 1966)

- 6 SL(6, C) and Meson Decays
K. C. Tripathy and R. B. White
Phys. Rev. [159], 1374-1377 (July 1967)
- 7 Relativistic Harmonic Oscillator and Superconvergent Amplitudes
G. Cocho, C. Fronsdal, I. T. Grodsky, and R. B. White
Phys. Rev. [162], 1662-1671 (October 1967)
- 8 Infinite Multiplets and Crossing Symmetry. I. Three Point Amplitudes
C. Fronsdal and R. B. White
Phys. Rev. [163], 1835-1843 (November 1967)

- 9 Exact Relativistic SU(6)
R. B. White
Ninth Latin American School of Physics, Santiago, Chile, 1968
in [Proceedings of the Ninth Latin American School of Physics] (W. A. Benjamin Inc., New York, 1968)

- 10 Current Algebras, Sum Rules and Canonical Field Theories
G. Cocho, C. Fronsdal, and R. B. White
Phys. Rev. [180], 1547-1555 (April 1969)

- 11 Electron Plasma Waves and Free Streaming Electron Bursts
H. Ikezi, P. Barrett, R. B. White, and A. Wong
Phys. Fluids [14], 1997-2005 (September 1971)
- 12 Ion Acoustic Waves in a Multi-Ion Plasma
B. D. Fried, R. B. White, and T. Samec
Phys. Fluids [14], 2388-2392 (November 1971)

- 13 Turbulent Resistivity, Diffusion, and Heating
B. D. Fried, C. F. Kennel, K. Mackenzie, F. V. Coroniti, J. M. Kindel, R. Stenzel, R. J. Taylor, R. B. White, A. Y. Wong, W. Bernstein, J. M. Sellen, Jr., D. Forslund, and R. Z. Sagdeev
Fourth International Conference on Plasma Physics and Controlled Nuclear Fusion Research, Madison, WI, June 1971
in [Proceedings of the Fourth International Conference on Plasma Physics and Controlled] [Nuclear Fusion Research] (International Atomic Energy Agency, Vienna, 1972) Vol. II, p. 55-65

- 14 Shock Wave Structure in Two Component Plasmas
R. B. White, B. D. Fried, and F. V. Coroniti
Phys. Fluids [15], 1484-1490 (August 1972)
- 15 Nonlinear Mode Coupling and Relaxation Oscillations
R. B. White, Y. C. Lee, and K. Nishikawa
Phys. Rev. Lett. [29], 1315-1318 (November 1972)
- 16 Instability of Ring Current Protons Beyond the Plasmapause During Injection Events
F. V. Coroniti, R. W. Fredricks, and R. B. White
J. Geophys. Res. [77], 6243-6248 (November 1972)

- 17 Parametric Decay of Obliquely Incident Radiation
R. B. White, C. S. Liu, and M. N. Rosenbluth
Phys. Rev. Lett. [31], 520-523 (August 1973)
- 18 Parametric Scattering Instabilities in Inhomogeneous Plasmas
C. S. Liu, M. N. Rosenbluth, and R. B. White
Phys. Rev. Lett. [31], 697-700 (September 1973)
- 19 Temporal Evolution of a Three-Wave Parametric Instability
M. N. Rosenbluth, R. B. White, and C. S. Liu
Phys. Rev. Lett. [31], 1190-1193 (November 1973)
- 20 Turbulence in Electrostatic Ion Acoustic Shocks
R. W. Means, F. V. Coroniti, A. Y. Wong, and R. B. White
Phys. Fluids [16], 2304-2318 (December 1973)

- 21 Absolute Parametric Instabilities in Inhomogeneous Plasmas
R. B. White, P. K. Kaw, D. Pesme, M. N. Rosenbluth, R. Huff, G. Laval, and R. Varma
Nucl. Fusion [14], 45-51 (January 1974)
- 22 Formation of Ion Acoustic Shocks
R. B. White, B. D. Fried, and F. V. Coroniti
Phys. Fluids [17], 211-213 (January 1974)
- 23 Nonlinear Schrodinger-Equation Model of the Oscillating Two-Stream Instability
G. J. Morales, Y. C. Lee, and R. B. White
Phys. Rev. Lett. [32], 457-460 (March 1974)
- 24 Raman and Brillouin Scatterings of Electromagnetic Waves in Inhomogeneous Plasmas
C. S. Liu, R. B. White, and M. N. Rosenbluth
Phys. Fluids [17], 1211-1219 (June 1974)
- 25 Amplification and Absorption of Electromagnetic Waves in Overdense Plasmas
R. B. White and F. F. Chen
Plasma Phys. and Controlled Fusion [16], 565-587 (July 1974)

- 26 Numerical Study of Nonlinear Evolution of Kink and Tearing Modes in Tokamaks
R. B. White, D. A. Monticello, M. N. Rosenbluth, H. Strauss and B. B. Kadomtsev
Princeton University, Plasma Physics Laboratory Report PPPL-1101 (January 1975) 9 pp. Fifth
International Conference on Plasma Physics and Controlled Nuclear Fusion Research, Tokyo, Japan,
November 1974
in [Proceedings of the Fifth International Conference on Plasma Physics and Controlled] [Nuclear
Fusion Research] (International Atomic Energy Agency, Vienna, 1975) Vol. I, p. 495-504
- 27 Parametric Instabilities in Inhomogeneous, Spherical Plasmas
C. S. Liu, M. N. Rosenbluth, and R. B. White
Fifth International Conference on Plasma Physics and Controlled Nuclear Fusion Research, Tokyo,
Japan, November 1974
in [Proceedings of the Fifth International Conference on Plasma Physics and Controlled] [Nuclear
Fusion Research] (International Atomic Energy Agency, Vienna, 1975) Vol. II, p. 515-524

- 28 Nonlinear Growth of the $M = 1$ Tearing Mode
B. V. Waddell, M. N. Rosenbluth, D. A. Monticello, and R. B. White
Princeton University, Plasma Physics Laboratory Report MATT-1242 (April 1976) 15 pp.
Nucl. Fusion [16], 528-532 (July 1976)

- 29 Numerical Studies of Nonlinear Evolution of Kink Modes in Tokamaks
M. N. Rosenbluth, D. A. Monticello, H. Strauss, and R. B. White
Princeton University, Plasma Physics Laboratory Report MATT-1101 (January 1975) 9 pp.
Phys. Fluids [19], 1987-1996 (December 1976)

- 30 Nonlinear Tearing Modes in Tokamaks
R. B. White, D. A. Monticello, M. N. Rosenbluth, and B. V. Waddell
Princeton University, Plasma Physics Laboratory Report PPPL-1282 (September 1976) 9 pp. Sixth
International Conference on Plasma Physics and Controlled Nuclear Fusion Research, Berchtesgaden,
Germany, October 1976
in [Proceedings of the Sixth International Conference on Plasma Physics and Controlled] [Nuclear
Fusion Research] (International Atomic Energy Agency, Vienna, 1977) Vol. I, p. 569-577
- 31 Nonlinear Helical Perturbations of a Tokamak
H. Strauss, D. A. Monticello, M. N. Rosenbluth, and R. B. White
Phys. Fluids [20], 390-395 (March 1977)
- 32 Saturation of the Tearing Mode
R. B. White, D. A. Monticello, M. N. Rosenbluth, and B. V. Waddell
Princeton University, Plasma Physics Laboratory Report MATT-1267 (July 1976) 21 pp.
Phys. Fluids [20], 800-805 (May 1977)
- 33 Simulation of Large Magnetic Islands: A Possible Mechanism for a Major Tokamak Disruption
R. B. White, D. A. Monticello, and M. N. Rosenbluth
Princeton University, Plasma Physics Laboratory Report PPPL-1364 (August 1977) 12 pp.
Phys. Rev. Lett. [39], 1618-1621 (December 1977)

- 34 Nonlinear Numerical Algorithms for Studying Tearing Modes
B. V. Waddell, M. N. Rosenbluth, D. A. Monticello, R. B. White, and B. Carreras
ICTP College on Theoretical and Computational Plasma Physics, Trieste, Italy, March 1977
in [Theoretical and Computational Plasma Physics] (International Atomic Energy Agency, Vienna,
1978) p. 79-91
- 35 Theory of Universal Eigenmodes in a Sheared Magnetic Field
L. Chen, P. N. Guzdar, R. B. White, P. K. Kaw, and C. R. Oberman
Princeton University, Plasma Physics Laboratory Report PPPL-1446 (May 1978) 15 pp.
Phys. Rev. Lett. [41], 649-653 (August 1978)
- 36 Reply to Comments on "Simulation of Large Magnetic Islands: A Possible Mechanism for a Major
Tokamak Disruption"
R. B. White, D. A. Monticello, and M. N. Rosenbluth
Phys. Rev. A [18], 2735 (December 1978)

- 37 Feedback Stabilization of Magnetic Islands in Tokamaks
D. A. Monticello, R. B. White, and M. N. Rosenbluth
Princeton University, Plasma Physics Laboratory Report PPPL-1477 (September 1978) 12 pp. Sev-
enth International Conference on Plasma Physics and Controlled Nuclear Fusion Research, Innsbruck,
Austria, August 1978
in [Proceedings of the Seventh International Conference on Plasma Physics and Controlled] [Nuclear
Fusion Research] (International Atomic Energy Agency, Vienna, 1979) Vol. I, p. 605-614
- 38 Theory of Drift and Trapped Electron Instabilities
L. Chen, C. Z. Cheng, E. A. Frieman, P. N. Guzdar, P. K. Kaw, W. W. Lee, W. M. Nevins, C. R.
Oberman, H. Okuda, G. Rewoldt, P. H. Rutherford, W. M. Tang, and R. B. White
Princeton University, Plasma Physics Laboratory Report PPPL-1467 (August 1978) 15 pp. Seventh
International Conference on Plasma Physics and Controlled Nuclear Fusion Research, Innsbruck,
Austria, August 1978
in [Proceedings of the Seventh International Conference on Plasma Physics and Controlled] [Nuclear
Fusion Research] (International Atomic Energy Agency, Vienna, 1979) Vol. I, p. 763-775
- 39 High Beta Tearing and Ballooning Modes in Tokamaks
R. B. White, W. Park, D. A. Monticello, and H. Strauss
Symposium on Current Disruption in Toroidal Devices, Garching, Germany, February 1979
in [Proceedings of the Symposium on Current Disruption in Toroidal Devices], edited by K. Lackner
and H. P. Zehrfeld (Max-Planck-Institut fur Plasmaphysik, Garching, 1979) D4

- 40 Theory of Dissipative Drift Instabilities in Sheared Magnetic Fields
L. Chen, P. N. Guzdar, J. Y. Hsu, P. K. Kaw, C. R. Oberman, and R. B. White
Princeton University, Plasma Physics Laboratory Report PPPL-1423 (July 1978) 50 pp.
Nucl. Fusion [19], 373-387 (March 1979)
- 41 Calculation of the Kolmogorov Entropy for Motion Along a Stochastic Magnetic Field
A. B. Rechester, M. N. Rosenbluth, and R. B. White
Princeton University, Plasma Physics Laboratory Report PPPL-1523 (March 1979) 11 pp. Sherwood Meeting on Theoretical Aspects of Controlled Thermonuclear Research, Mt. Pocono, PA, April 1979
Phys. Rev. Lett. [42], 1247-1250 (May 1979)
- 42 An Interactive Code for Solving Differential Equations Using Phase Integral Methods
R. B. White
Princeton University, Plasma Physics Laboratory Report PPPL-1428 (March 1978) 33 pp.
J. Comput. Phys. [31], 409-424 (June 1979)
- 43 Unstable Drift Waves in a Sheared Magnetic Field
W. W. Lee, W. M. Nevins, H. Okuda, and R. B. White
Princeton University, Plasma Physics Laboratory Report PPPL-1519 (March 1979) 14 pp.
Phys. Rev. Lett. [43], 347-350 (July 1979)
- 44 Numerical Studies of MHD Instabilities
J. L. Johnson, M. S. Chance, R. L. Dewar, A. H. Glasser, R. C. Grimm, J. M. Greene, S. C. Jardin, J. Manickam, A. E. Miller, D. A. Monticello, A. M. M. Todd, K. E. Weimer, and R. B. White
Ninth European Conference on Controlled Fusion and Plasma Physics, Oxford, UK, September 1979 in [Proceedings of the Ninth European Conference on Controlled Fusion and Plasma Physics], (Oxford, UK, September 1979) Paper EP-33

- 45 Impurity Effects on Ion-Drift-Wave Eigenmodes in a Sheared Magnetic Field
W. M. Tang, R. B. White, and P. N. Guzdar
Princeton University, Plasma Physics Laboratory Report PPPL-1541 (May 1979) 29 pp.
Phys. Fluids [23], 167-173 (January 1980)
- 46 Nonlinear Drift Tearing Modes
D. A. Monticello and R. B. White
Princeton University, Plasma Physics Laboratory Report PPPL-1547 (May 1979) 25 pp.
Phys. Fluids [23], 366-371 (February 1980)
- 47 Magnetohydrodynamical Interchange Instability in Low-Beta Plasmas in Sheared Systems
S. Yoshikawa and R. B. White
Sherwood Meeting on Theoretical Aspects of Controlled Thermonuclear Research, Mt. Pocono, PA, April 1979
Phys. Fluids [23], 791-793 (April 1980)
- 48 Stability of High Beta Tokamaks to Ballooning Modes
H. R. Strauss, W. Park, D. A. Monticello, R. B. White, S. C. Jardin, M. S. Chance, A. M. M. Todd, and A. H. Glasser
Princeton University, Plasma Physics Laboratory Report PPPL-1535 (April 1979) 13 pp.
Nucl. Fusion [20], 638-642 (May 1980)
- 49 Calculation of Turbulent Diffusion for the Chirikov Taylor Model
A. B. Rechester and R. B. White
Phys. Rev. Lett. [44], 1586-1589 (June 1980)
- 50 Magnetic Driving Energy of the Collisional Tearing Modes
E. A. Adler, R. M. Kulsrud, and R. B. White
Princeton University, Plasma Physics Laboratory Report PPPL-1597 (October 1979) 18 pp. Bull. Am. Phys. Soc. [24], 1047 (October 1979)
Phys. Fluids [23], 1375-1379 (July 1980)
- 51 Nonlinear Saturation of the Internal Kink Mode
W. Park, D. A. Monticello, R. B. White, and S. C. Jardin
Princeton University, Plasma Physics Laboratory Report PPPL-1635 (February 1980) 17 pp.
Nucl. Fusion [20], 1181-1185 (September 1980)
- 52 Linear and Nonlinear Ballooning Modes
W. Park, D. A. Monticello, R. B. White, H. R. Strauss, S. C. Jardin, M. S. Chance, R. L. Dewar, A. M. Glasser, R. C. Grimm, J. L. Johnson, J. M. Greene, J. Manickam, and A. M. M. Todd
US/Japan Workshop on Computational MHD Theory, Nagoya, Japan, October 1980

- 53 Statistical Description of Stochastic Orbits in a Tokamak
A. B. Rechester, M. N. Rosenbluth, and R. B. White
J. Phys. Colloq. (Paris, France) [41], C3-351 (December 1980)

- 54 Linear and Nonlinear Studies of High Beta Tokamaks
D. A. Monticello, W. Park, S. C. Jardin, M. S. Chance, R. L. Dewar, R. B. White, R. C. Grimm, J. Manickam, H. R. Strauss, J. L. Johnson, J. M. Greene, A. H. Glasser, P. K. Kaw, P. H. Rutherford, and E. J. Valeo
Eighth International Conference on Plasma Physics and Controlled Nuclear Fusion Research, Brussels, Belgium, July 1980
in [Proceedings of the Eighth International Conference on Plasma Physics and Controlled Nuclear Fusion Research] (International Atomic Energy Agency, Vienna, 1981) Vol. I, p. 227-234
- 55 Theory of Stochastic Magnetic Fluctuations and Anomalous Electron Thermal Conductivity in Tokamaks
K. Molvig, S. P. Hirshman, A. B. Rechester, R. B. White, M. N. Rosenbluth, J. F. Drake, N. T. Gladd, A. B. Hassam, C. S. Liu, and C. L. Chang
Eighth International Conference on Plasma Physics and Controlled Nuclear Fusion Research, Brussels, Belgium, July 1980
in [Proceedings of the Eighth International Conference on Plasma Physics and Controlled Nuclear Fusion Research] (International Atomic Energy Agency, Vienna, 1981) Vol. I, p. 73-81
- 56 Alfvén Wave Cyclotron Resonance Heating
R. B. White, S. Yoshikawa, and C. R. Oberman
Fourth Topical Conference on RF Plasma Heating, Austin, TX, February 1981
in [Proceedings of the Fourth Topical Conference on RF Plasma Heating], edited by R. D. Bengtson and M. E. Oakes (The University of Texas, Austin, 1981) A18
- 57 Solving the Chirikov-Taylor Model by the Method of Paths in Fourier Space
[Journal Title]: Fourier Space Paths Applied to the Calculation of Diffusion for the Chirikov-Taylor Model
A. B. Rechester, M. N. Rosenbluth, and R. B. White
Princeton University, Plasma Physics Laboratory Report PPPL-1678 (July 1980) 22 pp.
Bull. Am. Phys. Soc. [25], 995 (October 1980)
Phys. Rev. A [23], 2664-2672 (May 1981)
- 58 Finite Gyroradius Stabilization of Ballooning Modes in a Toroidal Geometry
W. M. Tang, J. W. Connor, and R. B. White
Princeton University, Plasma Physics Laboratory Report PPPL-1778 (April 1981) 8 pp.
Nucl. Fusion [21], 891-892 (July 1981)
- 59 Confinement of High Energy Trapped Particles in Tokamaks
R. J. Goldston, R. B. White, and A. H. Boozer
Princeton University, Plasma Physics Laboratory Report PPPL-1789 (April 1981) 7 pp.
Phys. Rev. Lett. [47], 647-649 (August 1981)
- 60 3-D Nonlinear Resistive Studies of High-Beta PDX Discharges
W. Park, D. A. Monticello, R. B. White, K. McGuire, and M. F. Reusch
US/Japan Workshop on 3-D Studies, Oak Ridge, TN, October 1981

- 61 Effect of Noise on the Standard Mapping
C. F. F. Karney, A. B. Rechester, and R. B. White
Princeton University, Plasma Physics Laboratory Report PPPL-1752 (March 1981) 25 pp.
Physica [4D], 425-438 (March 1982)
- 62 Alfvén Wave Cyclotron Resonance Heating
R. B. White, S. Yoshikawa, and C. R. Oberman
Princeton University, Plasma Physics Laboratory Report PPPL-1750 (February 1981) 19 pp.
Phys. Fluids [25], 384-388 (February 1982)
- 63 Particle Diffusion in Tokamaks With Partially Destroyed Magnetic Surfaces
A. H. Boozer and R. B. White
Princeton University, Plasma Physics Laboratory Report PPPL-1872 (February 1982) 16 pp.
Phys. Rev. Lett. [49], 786-789 (February 1982)

- 64 Drift Hamiltonian in Magnetic Coordinates
R. B. White, A. H. Boozer, and R. Hay
Princeton University, Plasma Physics Laboratory Report PPPL-1880 (February 1982) 9 pp.
Phys. Fluids [25], 575-576 (March 1982)

- 65 Confinement in Toroidal Systems With Partially Destroyed Magnetic Surfaces
R. B. White, A. H. Boozer, R. J. Goldston, R. G. Hay, J. Albert, and C. F. F. Karney
Ninth International Conference on Plasma Physics and Controlled Nuclear Fusion Research, Baltimore, MD, September 1982
in [Proceedings of the Ninth International Conference on Plasma Physics and Controlled Nuclear Fusion Research] International Atomic Energy Agency, Vienna, 1983), Vol. [III] p. 391-401
- 66 Statistical Description of the Chirikov-Taylor Model in the Presence of Noise
A. B. Rechester, M. N. Rosenbluth, R. B. White, and C. F. F. Karney Proc. Workshop on Long-Time Prediction in Conservative Nonlinear Dynamical Systems, Austin, TX, March 1981
in [Long-Time Prediction in Dynamics], edited by C. W. Horton, L. E. Reichl, and V. G. Szebehely
Wiley-Interscience Series on Nonequilibrium Problems in the Physical Science and Biology, Vol. [II], 471-483, (Wiley, New York, 1983)
- 67 Resistive Instabilities and Field Line Reconnection
R. B. White
Handbook of Plasma Physics, Vol. 1, 612-676, North Holland (1983)
- 68 3-D MHD Simulations of a High-Beta Tokamak
W. Park, R. Izzo, D. A. Monticello, and R. B. White
Tenth Conference on Numerical Simulation of Plasmas, Sponsored by Theoretical Science Department, GA Technologies, Inc., San Diego, CA, January 1983
in [Proceedings of the Tenth Conference on Numerical Simulation of Plasmas], Sponsored by Theoretical Science Department, GA Technologies, Inc. (San Diego, CA, January (1983)
- 69 Study of High Beta Magnetohydrodynamic Modes and Fast-Ion Losses in PDX
K. McGuire et. al.
PPPL-1946 (October 1982) 18 pp.
Phys. Rev. Lett. [50], 891-895 (March 1983)
- 70 An Invariant Probability Distribution of an Attractor in the Presence of Noise
A. B. Rechester and R. B. White
Phys. Rev. A [27], 1203-1206 (April 1983)
- 71 Bean-Shaped Tokamak Configurations
M. S. Chance, L. Chen, R. L. Dewar, H. P. Furth, R. J. Goldston, R. C. Grimm, S. C. Jardin, J. Manickam, D. A. Monticello, M. Okabayashi, F. W. Perkins, M. F. Reusch, P.H. Rutherford, T. H. Stix, W. M. Tang, A. M. M. Todd, and R. B. White
Eleventh European Conference on Controlled Fusion and Plasma Physics Aachen, Germany (September 1983)
in [Proceedings of the Eleventh European Conference on Controlled Fusion and Plasma Physics] Vol. 2, p. 107
- 72 Theory of Mode-Induced Beam Particle Loss in Tokamaks
R. B. White, R. J. Goldston, K. McGuire, A. H. Boozer, D. A. Monticello, and W. Park
Princeton University, Plasma Physics Laboratory Report PPPL-1992 (April 1983) 34 pp.
Phys. Fluids [26], 2958-2965 (October 1983)

- 73 Collisional Diffusion in a Torus With Imperfect Magnetic Surfaces
R. B. White
in [Statistical Physics and Chaos in Fusion Plasma], edited by Dr. G. W. Horton and Dr. L. E. Reschl
(John Wiley and Sons) pp. 209-224 (1984)
- 74 Modeling the Fishbone Instability in PDX
R. B. White, L. Chen, and R. Hay
in [Proceedings of the Fourth International Symposium on Heating in Toroidal Plasma], Rome, Italy (1984) edited by H. Knoepfel and E. Sindoni, ENEA, (1984) pp. 57-58
- 75 Reconnection Rates of Magnetic Fields Including the Effects of Viscosity
W. Park, D. A. Monticello, and R. B. White
Princeton University, Plasma Physics Laboratory Report PPPL-2014 (May 1983) 50 pp.
Phys. Fluids [27], 137-149, (January 1984)

- 76 Hamiltonian Guiding Center Drift Orbit Calculation for Toroidal Plasmas of Arbitrary Cross Section
R. B. White and M. S. Chance
Princeton University, Plasma Physics Laboratory Report PPPL-2089 (February 1984) 47 pp.
Phys. Fluids [27], 2455-2467 (October 1984)
- 77 Excitation of Internal Kink Modes by Trapped Energetic Beam Ions
L. Chen, R. B. White, and M. N. Rosenbluth
Princeton University, Plasma Physics Laboratory Report PPPL-2044 (October 1983) 14 pp.
Phys. Rev. Lett. [52], 1122-1125 (March 1984)
- 78 Magnetic Reconnection in Tokamaks
W. Park, D. A. Monticello, and R. B. White
US-Japan Workshop on Magnetic Reconnection, Austin, TX, (December 1984) in [Proceedings of the
US-Japan Workshop on Magnetic Reconnection], (Austin, TX, December 1984)

- 79 Studies of Bean-Shaped Tokamaks and Beta Limits for Reactor Design
M. Okabayashi et. al.
Princeton University, Plasma Physics Laboratory Report PPPL-2141 (September 1984) 9 pp. Tenth
International Conference on Plasma Physics and Controlled Nuclear Fusion Research London, UK
(September 1984)
in [Proceedings of the Tenth International Conference on Plasma Physics and Controlled Nuclear
Fusion Research], (London, UK, September 1984) (International Atomic Energy Agency, Vienna,
Austria, 1985) Vol. [I], 229-238 (1985)
- 80 Canonical Magnetic and Particle Drift Hamiltonians
A. H. Boozer, G. Kuo-Petravic, H. E. Mynick, R. B. White, and M. S. Chance
Proceedings 1984 IAEA Meeting, London, UK, (September 1984) (International Atomic Energy
Agency, Vienna, Austria, 1985) Vol. [I], xx (1985)
- 81 Theory and Simulation of Fishbone Type Instabilities in Beam-Heated Tokamaks
L. Chen, D. C. Barnes, C. Z. Cheng, F. Romanelli, M. N. Rosenbluth, S. T. Tsai, R. Hay, J. W. Van
Dam, J. Weiland, and R. B. White
Princeton University, Plasma Physics Laboratory Report PPPL-2138 (September 1984) 16 pp.
in [Proceedings of Tenth Conference on Plasma Physics and Controlled Thermonuclear Fusion Re-
search], (London, UK) (September 1984) Paper IAEA-CN-44/E-II-1 (International Atomic Energy
Agency, Vienna, Austria, 1985) Vol. [I], xx (1985)
- 82 Trapped Particle Destabilization of the Internal Kink Mode
R. B. White, L. Chen, F. Romanelli, and R. Hay
Princeton University, Plasma Physics Laboratory Report PPPL-2115 (June 1984) 33 pp.
Phys. Fluids [28], 278 (1985)
- 83 Measurements of Current Penetration During PDX Discharge Start-up
D. D. Meyerhofer, R. J. Goldston, R. Kaita, A. Cavallo, B. Grek, D. Johnson, D. C. McCune, K.
McGuire, and R. B. White
Princeton University, Plasma Physics Laboratory Report PPPL-2169 (November 1984) 38 pp.
Nucl. Fusion [25], 321-333 (March 1985)
- 84 Feedback Control of Resistive Instabilities
R. B. White, P. H. Rutherford, H. P. Furth, W. Park, and L. Chen
Princeton University, Plasma Physics Laboratory Report PPPL-2265 (December 1985) 21 pp.
in [Magnetic Reconnection and Turbulence], edited by M. Dubois, et al., (Editions de Physique,
Orsay, France, 1985) p. 299 in [Proceedings of the Cargese Workshop, 1985]
- 85 Compound Sawteeth and Heat Pulse Propagation in TFTR
K. McGuire, J. D. Callen, R. J. Colchin, P. C. Efthimion, E. Fredrickson, K. Hill, V. Pare, W. Park,
N. Sauthoff, G. Taylor, R. White, and H. Yamada
Twelfth European Conference on Controlled Fusion and Plasma Physics, Budapest, Hungary, Septem-
ber 1985
in [Proceedings of the Twelfth European Conference on Controlled Fusion and Plasma Physics], (Eu-
ropean Physical Society, Budapest, Hungary, September 1985) (edited by L. Pocs and A. Montraí)
Vol. [I] p.134

- 86 Resistive Reconnection
R. B. White
Rev. Modern Phys. [58], 183 (1986)

- 87 Summary of the Course and Workshop on Basic Physical Processes of Toroidal Fusion Plasmas
R. H. Rutherford, M. S. Chance, H. P. Furth, A. H. Glasser, H. Hsuan, J. Manickam, W. Stodiek, A. M. M. Todd, and R. B. White
Course and Workshop on Basic Physical Processes of Toroidal Fusion Plasmas, Varenna, Italy, 1985 (Commission of the European Communities, Luxemburg, Brussels, 1986) EUR 10418 EN, Vol. [I], p. 7 (1986)
- 88 The Sawtooth-Suppressed Tokamak
P. H. Rutherford, M. S. Chance, H. P. Furth, A. H. Glasser, H. Hsuan, D. W. Ignat, J. Manickam, W. Stodiek, A. M. M. Todd, and R. B. White
IAEA Specialists' Meeting on Tokamak Concept Innovations, Vienna, Austria, 1986 in [Proceedings of the IAEA Specialists' Meeting on Tokamak Concept Innovations] (International Atomic Energy Agency, Vienna, Austria, January 1986) IAEA-TECDOC 373 (1986) p. 157-160
- 89 A Compact Ignition Experiment
J. Schmidt et. al.
Eleventh International Conference on Plasma Physics and Controlled Nuclear Fusion Research, Kyoto, Japan, November 1986
in [Proceedings of the Eleventh International Conference on Plasma Physics and Controlled Nuclear Fusion Research] (Kyoto, Japan, November 1986) (International Atomic Energy Agency) Paper IAEA-CN-47/H-I-2, (IAEA, Vienna, Austria, 1986) Vol. [III], 259-265
- 90 Theory of Resistive Magnetohydrodynamic Instabilities Excited by Energetic Trapped Particles in Large-Size Tokamaks
H. Biglari, L. Chen, and R. B. White
Eleventh International Conference on Plasma Physics and Controlled Nuclear Fusion, Kyoto, Japan, November 1986
in [Proceedings of the Eleventh International Conference on Plasma Physics and Controlled Nuclear Fusion], (Kyoto, Japan, November 1986) (International Atomic Energy Agency, Vienna, Austria, 1986) Paper IAEA-CN-47/E-II-2-1
- 91 Anomalous Thermal Confinement in Ohmically Heated Tokamaks
F. Romanelli, W. M. Tang, and R. B. White
Princeton University, Plasma Physics Laboratory Report PPPL-2310 (February 1986) 41 pp.
Nucl. Fusion [26], 1515-1528 (November 1986)

- 92 Physics Aspects of the Compact Ignition Tokamak
D. Post et. al.
Princeton University, Plasma Physics Laboratory Report PPPL-2389 (November 1986) 70 pp.
Physica Scripta T [16], 89-106 (1987)
- 93 Transport in Systems with Destroyed Magnetic Flux Surfaces
R. B. White
in [Turbulence and Anomalous Transport in Magnetized Plasmas], in [Proceedings of the Cargese Workshop], (1987) edited by D. Gresillon and M. A. Dubois, (Editions de Physique, Orsay, France, 1987)

- 94 Sawtooth Stabilization by Energetic Trapped Particles
R. B. White, P. H. Rutherford, P. Colestock, and M. N. Bussac
Princeton University, Plasma Physics Laboratory Report PPPL-2507 (March 1988) 15 pp.
Phys. Rev. Lett. [60], 2038-2041 (May 1988)

- 95 Stability of TFTR Plasmas
J. Manickam et. al.
Twelfth International Conference on Plasma Physics and Controlled Nuclear Fusion Research, Nice, France, October 1988
in [Proceedings of the Twelfth International Conference on Plasma Physics and Controlled Nuclear Fusion Research], (International Atomic Energy Agency, Vienna, Austria, 1989) Vol. [I], 395-407
- 96 Theory of Energetic/Alpha Particle Effects on Magnetohydrodynamic Modes in Tokamaks
L. Chen, R. B. White, G. Rewoldt, P. Colestock, P. H. Rutherford, Y. P. Chen, F. J. Ke, S. T. Tsai, and M. N. Bussac
Twelfth International Conference on Plasma Physics and Controlled Nuclear Fusion, Nice, France, October 1988
in [Proceedings of the Twelfth International Conference on Plasma Physics and Controlled Nuclear Fusion], (Nice, France, October 1988) (International Atomic Energy Agency, Vienna, Austria), Vol.[II],

- p. 77 Paper IAEA-CN-50/D-II-3-1 Princeton University, Plasma Physics Laboratory Report PPPL-2581 (January 1989) 14 pp.
- 97 Alpha Particle Confinement in Tokamaks
R. B. White and H. E. Mynick
Princeton University, Plasma Physics Laboratory Report PPPL-2563 (November 1988) 12 pp.
Phys. Fluids B [1], (5), 980-982 (1989)
- 98 Alpha Particle Loss in Tokamaks
R. B. White, M. S. Chance, J. L. Johnson, H. E. Mynick, F. W. Perkins, and A. H. Reiman
Twelfth International Conference on Plasma Physics and Controlled Nuclear Fusion Research, Nice, France, October 1988
in [Proceedings of the Twelfth International Conference on Plasma Physics and Controlled Nuclear Fusion Research], (Nice, France, October 1988) (International Atomic Energy Agency, Vienna, Austria, 1989) Vol. [II], p. 111-119
- 99 Alpha Particle Losses in Tokamaks
H. E. Mynick and R. B. White
Theory of Fusion Plasmas, International School of Plasma Physics, October 1989, (eds. J. Vaclavik, F. Troyon, E. Sindoni, pp. 385-400, 1989).
- 100 Nonlinear Self-Sustainment of Magnetic Islands
R. B. White and F. Romanelli
Princeton University, Plasma Physics Laboratory Report PPPL-2492 (January 1988) 14 pp.
Phys. Fluids B[1], (5) 977-979 (1989)
- 101 High Beta, Sawtooth-Free Tokamak Operation Using Energetic Trapped Particles
R. B. White, M. N. Bussac, and F. Romanelli
Princeton University, Plasma Physics Laboratory Report PPPL-2540 (August 1988) 14 pp.
Phys. Rev. Lett. [62], 539-542 (1989)
- 102 Escaping 1 MeV Tritons in TFTR
S. J. Zweben, J. D. Strachan, R. Boivin, C. W. Barnes, A. Cavallo, E. D. Fredrickson, K. McGuire, H. E. Mynick, and R. B. White
Sixteenth European Conference on Controlled Fusion and Plasma Physics, Venice, Italy, March 1989
in [Proceedings of the Sixteenth European Conference on Controlled Fusion and Plasma Physics], (Venice, Italy, March 1989) Paper P 2 A4 1
- 103 Alpha Particle Loss in Tokamaks
R. B. White and H. E. Mynick
Sixteenth European Conference on Controlled Fusion and Plasma Physics, Venice, Italy, March 1989
in [Proceedings of the Sixteenth European Conference on Controlled Fusion and Plasma Physics], (Venice, Italy, March 1989)
- 104 Nonlinear Interaction of Energetic Ring Current Protons with Magnetospheric Hydromagnetic Waves
A. A. Chan, L. Chen, and R. B. White
Princeton University, Plasma Physics Laboratory Report PPPL-2647 (September 1989) 17 pp.
Geophys. Res. Lett. [16], (10) 1133-1136 (October 1989)
- 105 Alpha Particle Losses From Toroidicity Induced Alfvén Eigenmodes
D. J. Sigmar, C. T. Hsu, R. B. White, and C. Z. Cheng
MIT Plasma Fusion Center Report PFC/JA-89-58 (December 1989) 13 pp. IAEA Technical Meeting on Alpha Particles in Fusion Research, Kiev, USSR, October 1989
in [Proceedings of the International Atomic Energy Agency Technical Meeting on Alpha Particles in Fusion Research], (Kiev, USSR, October 1989)

- 106 Canonical Hamiltonian Guiding Center Variables
R. B. White
Princeton University, Plasma Physics Laboratory Report PPPL-2663 (November 1989) 11 pp.
Phys. Fluids B[2], (4), 845-847 (1990)
- 107 Experiments on Alpha-Like Confinement in TFTR
S. J. Zweben, C. Barnes, R. Boivin, R. Duvall, H. Mynick, J. D. Strachan, and R. B. White
IAEA Technical Committee Meeting on Alpha Particles/Confinement and Heating, Kiev, USSR, October 1989
Fusion Technol. [18], 573-577 (1990)

- 108 Influence of an Energetic Ion Population on Tokamak Plasma Stability
R. B. White, F. Romanelli, and M. N. Bussac
Phys. Fluids B[2], (4), 745-753 (1990)
- 109 MeV Ion Confinement in the TFTR Tokamak
S. J. Zweben, R. L. Boivin, R. E. Duvall, E. D. Fredrickson, R. J. Goldston, H. E. Mynick, J. D. Strachan, and R. B. White
Phys. Fluids B[2], (6), 1411-1414 (June 1990)
- 110 Mode Particle Resonances During Near-Tangential Neutral Beam Injection in Large Tokamaks
R. Kaita, R. B. White, A. W. Morris, E. D. Fredrickson, K. McGuire, S. S. Medley, and S. D. Scott
Princeton University, Plasma Physics Laboratory Report PPPL-2493 (January 1988)
Phys. Fluids B, [2], 1584-1588 (July 1990)

- 111 Physics Objectives and Design of CIT
D. J. Sigmar et. al.
Thirteenth International Conference on Plasma Physics and Controlled Nuclear Fusion Research, Washington, DC, October 1990
in [Proceedings of the Thirteenth International Conference on Plasma Physics and Controlled Nuclear Fusion Research], (Washington, DC, October 1990) (International Atomic Energy Agency, Vienna, Austria, 1991) Vol. [III], p. 455-471
- 112 Alpha Particle Effects on Global MHD Modes, and Alpha Particle Transport in Ignited Tokamaks
C. Z. Cheng, R. B. White, G. Y. Gu, L. Chen, D. J. Sigmar, C. T. Hsu, A. Beklemishev, H. L. Berk, B. Breizman, S. C. Guo, Z. Guo, D. Lindberg, and J. W. Van Dam
Princeton University, Plasma Physics Laboratory Report PPPL-2730 (October 1990) 10pp Thirteenth International Conference on Plasma Physics and Controlled Nuclear Fusion Research, Washington, DC, October 1990
in [Thirteenth International Conference on Plasma Physics and Controlled Nuclear Fusion Research], (Washington, DC, October 1990) (International Atomic Energy Agency, Vienna, Austria, 1991) Paper IAEA-CN-53/D-3-6 Princeton University, Plasma Physics Laboratory Report PPPL-2730 (February 1991) 10 pp.
- 113 Symbolic Kinetic Analysis of Two-Dimensional Maps
A. B. Rechester and R. B. White
Phys. Lett. A [158], 51-56 (August 1991)
- 114 Sawtooth Stabilization by Localized Electron Cyclotron Heating in a Tokamak Plasma
K. Hanada, H. Tanaka, M. Ida, S. Ide, T. Minami, M. Nakamura, T. Maekawa, Y. Terumichi, S. Tanaka, M. Yamada, J. Manickam, and R. White
Princeton University, Plasma Physics Laboratory Report PPPL-2725 (November 1990) 13 pp.
Phys. Rev. Lett. [66], 1974-1977 (April 1991)
- 115 Stability of Internal Kink Modes with Energetic Trapped Particles
F. Romanelli, L. Chen, and R. B. White
Nucl. Fusion [31], 631-646 (April 1991)
- 116 Diffusion of Alpha-Like MeV Ions in TFTR
S. J. Zweben, R. L. Boivin, C. S. Chang, G. Hammett, H. E. Mynick, and R. B. White
Eighteenth European Conference on Controlled Fusion and Plasma Physics, Berlin, Germany, June 1991
in [Proceedings of the Eighteenth European Conference on Controlled Fusion and Plasma Physics], (Berlin, Germany, June 1991)
- 117 Symbolic Kinetic Equation for a Chaotic Attractor
A. B. Rechester and R. B. White
Phys. Lett A [156], 419-424 (July 1991)
- 118 Sawtooth Stabilization by Electron Cyclotron Heating at $q=1$ Surface in the WT-3
S. Tanaka, K. Hanada, H. Tanaka, M. Iida, S. Ide, T. Minami M. Nakamura, T. Maekawa, Y. Terumichi, M. Yamada, J. Manickam, and R. B. White
Phys. Fluids B [3], 2200-2204 (August 1991)

- 119 ICRF Heating on TFTR
C. Kieras-Phillips et. al.
Ninth Topical Conference on Radio Frequency Power in Plasmas, Charleston, NC, August 1991
in [Proceedings of the Ninth Topical Conference on Radio Frequency Power in Plasmas], (Charleston, SC, August 1991) American Institute of Physics (New York, NY, 1992) pp. 88-95

- 120 Fusion Product and Fast Ion Losses in TFTR
D. S. Darrow, R. L. Boivin, E. D. Fredrickson, H. E. Mynick, R. Nazikian, M. Tuszewski, R. B. White, K. L. Wong, and S. J. Zweben
Transport Task Force Meeting, Oak Ridge, TN, March 1992
- 121 Effective Diffusion and Nonlocal Heat Transport in a Stochastic Magnetic Field
J. M. Rax and R. B. White
Phys. Rev. Lett. [68], 1523-1526 (March 1992)
- 122 Multispecies Transport theory for Axisymmetric Rotating Plasmas
M. Tassarotto and R. B. White
Phys. Fluids B[4], (4), 859-871 (April 1992)
- 123 Observations of Beam Ion Losses in TFTR During TAE Modes and Other MHD Activity
D. S. Darrow, E. D. Fredrickson, H. E. Mynick, R. Nazikian, R. B. White, K. L. Wong, S. J. Zweben and M. Tuszewski
Nineteenth European Physical Society Meeting on Controlled Fusion, Innsbruck, Austria, June/July 1992
in [Proceedings of the Nineteenth European Physical Society Meeting on Controlled Fusion and Plasma Physics], (Innsbruck, June/July 1992) Part [I], 431-434 (1992) Princeton University, Plasmas Physics Laboratory Report PPPL-2884 (April 1993) 4 pp.
- 124 Alpha Particle Loss from Toroidicity Induced Alfvén Eigenmodes
D. J. Sigmar, C. T. Hsu, R. White, and C. Z. Cheng
Phys. Fluids B [4], 1506-1516 (June 1992)
- 125 Ion Cyclotron Range of Frequencies Stabilization of Sawtooth on Tokamak Fusion Test Reactor
C. Kieras-Phillips et. al.
Princeton University, Plasma Physics Laboratory Report PPPL-2820 (January 1992) 36 pp.
Thirty-third Annual Meeting of the American Physical Society, Division of Plasma Physics, Tampa, FL, November 1991
Phys. Fluids B[4], 2155-2164 (July 1992)
- 126 Three-Dimensional Hybrid Gyrokinetic Magnetohydrodynamics Simulation
W. Park, S. Parker, H. Biglari, M. Chance, L. Chen, C. Z. Cheng, T. S. Hahm, W. W. Lee, R. Kulsrud, D. Monticello, L. Sugiyama, and R. White
Phys. Fluids B [4], 2033-2037 (July 1992)

- 127 Charged Fusion Product and Fast Ion Loss in TFTR
S. J. Zweben et. al.
Princeton University, Plasma Physics Laboratory Report PPPL-2891 (March 1993) 18 pp. Fourteenth International Conference on Plasma Physics and Controlled Nuclear Fusion Research, Wurzburg, Germany, September 1992
in [Proceedings of the Fourteenth International Conference on Plasma Physics and Controlled Nuclear Fusion Research], (Wurzburg, Germany, September 1992) (International Atomic Energy Agency, Vienna, Austria) Paper IAEA-CN-56/A-6-3, Vol. [I], 363-382
- 128 Alpha Effects on TAE Modes and Alpha Transport
C. Z. Cheng, G. Y. Fu, H. E. Mynick, R. Budny, R. B. White, S. J. Zweben, C. T. Hsu, J. Sigmar, D. A. Spong, B. A. Carreras, and C. L. Hedrick
Fourteenth International Conference on Plasma Physics and Controlled Nuclear Fusion Research, Wurzburg, Germany, September 1992
in [Proceedings of the Fourteenth International Conference on Plasma Physics and Controlled Nuclear Fusion Research], (Wurzburg, Germany, September 1992) (International Atomic Energy Agency, Vienna, Austria) Paper IAEA-CN-56/D-2-1(C)
- 129 Alpha-Particle Physics for ITER
S. Putvinski et. al.
Fourteenth International Conference on Plasma Physics and Controlled Nuclear Fusion Research, Wurzburg, Germany, September 1992
in [Proceedings of the Fourteenth International Conference on Plasma Physics and Controlled Nuclear Fusion Research], (Wurzburg, Germany, September 1992) (International Atomic Energy Agency, Vienna, Austria) Paper IAEA-F1-CN-60
- 130 Collisionless Transport in a Stochastic Magnetic Field
R. B. White and Yanlin Wu
Princeton University, Plasma Physics Laboratory Report PPPL-2857 (September 1992) 15 pp.
Plasma Phys. Control. Fus. [35], 595-599 (1993)

- 131 Study of Stochastic Toroidal Field Ripple Losses of Charges Fusion Products at the Midplane of TFTR
R. L. Boivin, S. J. Zweben, and R. B. White
Nucl. Fusion [33], (3) 449-465 (1993)
- 132 Observations of Fast Ion Losses Due to Toroidal Alfvén Eigenmodes in TFTR
D. S. Darrow, S. J. Zweben, Z. Chang, C. Z. Cheng, E. D. Fredrickson, E. Mazzucato, R. Nazikian, C. Kieras-Phillips, R. B. White, J. R. Wilson, and K. L. Wong
in [Proceedings of the International Atomic Energy Agency Technical Committee Meeting on Alpha Particles in] [Fusion Research], (Trieste Italy, May 1993), 27-37
- 133 The Effect of Internal Magnetic Structure on Energetic Ion Confinement in Tokamaks
D. W. Roberts et. al.
Princeton University, Plasma Physics Laboratory Report PPPL-2815 (January 1992) 19 pp.
Phys. Rev. Lett. [71], 1011-1014 (August 1993)
- 134 Numerical Simulation of Bootstrap current
Y. Wu and R. B. White
Princeton University, Plasma Physics Laboratory Report PPPL-2906 (May 1993) 20 pp.
Phys. Fluids B[5], (9), 3291-3298 (September 1993)
- 135 Theory of Runaway Collisional Transport
M. Tessarotto and R. B. White
Phys. Fluids B[5], (11), 3942-3960 (November 1993)

- 136 Particle Dynamics in Chirped-Frequency Fluctuations
C. T. Hsu, C. Z. Cheng, P. Helander, D. J. Sigmar, and R. B. White
Phys. Rev. Lett. [72], 2503-2507 (1994)
- 137 Particle and Heat Transport in a Partially Stochastic Magnetic Field
M. N. Bussac, R. B. White, and L. Zuppiroli
Phys. Lett. A[190], 101-105 (1994)
- 138 Self-Consistent Study of the Alpha Particle Driven TAE Mode
Y. Wu and R. B. White
Princeton University, Plasma Physics Laboratory Report PPPL-2984 (April 1994) 27 pp.
Phys. Plasmas [1], (8), 2733-2740 (1994)
- 139 Anomalous Losses of Deuterium-Deuterium Fusion Products in the the Tokamak Fusion Test Reactor
S. J. Zweben et. al.
Phys. Plasmas [1], 1469-1478 (May 1994)
- 140 Alpha Particle Effects on the Internal Kink and Fishbone Modes
Y. Wu, C. Z. Cheng, and R. B. White
PPPL-2994 (June 1994) 25pp
Phys. Plasmas [1], 3369-3377 (October 1994)
- 141 Deuterium-Tritium Experiments in TFTR
N. L. Bretz et. al.
in [Proceedings of the 1994 International Conference on Plasma Physics], Iguacu, Brazil, October 1994 submitted for publication in Nuovo Cimento (1994)
- 142 Review of Recent D-T Experiments from TFTR
R. J. Hawryluk et. al.
Princeton University, Plasma Physics Laboratory Report PPPL-3037 (January 1995) 22 pp.
in [Proceedings of the Fifteenth International Conference on Plasma Physics and Controlled Nuclear Fusion Research], (Seville, Spain, September 1994) (International Atomic Energy Agency, Vienna, Austria, 1994)
- 143 Anomalous Losses of Deuterium-Deuterium Fusion Products in the Tokamak Test Reactor
S. J. Zweben et. al.
Princeton University, Plasma Physics Laboratory Report PPPL-3079 (March 1995) 11 pp.
Phys. Plasmas [1], 1469-1478 (1994)
- 144 Construction of Monte Carlo Operators in Collisional Transport Theory
M. Tessarotto, R. B. White and L. J. Zheng
Phys. Plasmas 1, 951 (1994)
- 145 Probabilistic Approach to Monte Carlo Operators
M. Tessarotto, R. B. White and L. J. Zheng
Phys. Plasmas 1, 259 (1994)

- 146 Monte Carlo approach for non-linear delta-f weighting schemes
M. Tessarotto, R. B. White, and L.-J. Zheng
Theory of Fusion Plasmas 1994, ed. by E.Sindoni, et. al. (Società Italiana di Fisica/Editrice Compositori, Bologna, 1994), p.397.
- 147 Monte Carlo Approach to Collisional Transport
M. Tessarotto, R. B. White and L. J. Zheng
Phys. Plasmas 1, 2603 (1994)

- 148 Toroidal Alfvén Eigenmode Induced Ripple Trapping
R. B. White, E. Fredrickson, D. Darrow, M. Zarnstorff, R. Wilson, S. Zweben, K. Hill, Y. Chen, and G. Y. Fu
Phys Plasmas 2, 2871-2873 (August,1995)
- 149 Measurements of DT Alpha Particle Loss Near the Outer Midplane of TFTR
S. J. Zweben, D. S. Darrow, H. W. Herrmann, M. H. Redi, J. Schivell, and R. B. White
Princeton University, Plasma Physics Laboratory Report PPPL-3118 (July 1995) 23 pp.
Nucl. Fusion 35, 1445 (1995)
- 150 Review of D-T Results From TFTR
K. M. McGuire et. al.
Princeton University, Plasma Physics Laboratory Report PPPL-3096 (May 1995) 42 pp.
Phys. Plasmas [2], 2176-2188 (1995)
- 151 Theory and experiments on RF plasma heating, current drive and profile control in Tore Supra
D. Moreau et. al.
Fusion Engineering and Design [26], 29-48 (1995)
- 152 Collisional Stochastic Ripple Diffusion of Alpha Particles and Beam Ions on TFTR
M. H. Redi, M. C. Zarnstorff, R. B. White, R. V. Budny, J. F. Schivell, S. D. Scott, A. Janos, and J. Zweben
Princeton University, Plasma Physics Laboratory Report PPPL-3011-R (July 1995) 62 pp.
Nucl. Fusion [35], 1191-1211 (1995)
- 153 Analytical and Numerical Studies of Sawtooth Stabilization with On-Axis ICRF on Tore Supra
M. Zabiego, V. Basiuk, A. Becoulet, X. Garbet, B. Saoutic, R. B. White, and Y. Wu
15th International Conference on Plasma Physics and Controlled Nuclear Fusion Research, Sevilla, 1994 (IAEA editor Vienna, 1995), IAEA-CN-60/D-III-4
- 154 Alpha Particle Physics for ITER
S. Putvinski et. al.
15th International Conference on Plasma Physics and Controlled Nuclear Fusion Research, Sevilla, 1994 (IAEA editor Vienna, 1995), p535-541,IAEA-CN-60/D-III-4
- 155 Energetic/Alpha Particle Effects on MHD Modes and Transport
C. Z. Cheng, R. Budny, L. Chen, M. Chu, D. S. Darrow, E. D. Fredrickson, G. Y. Fu, T. S. Hahn, C. T. Hsu, E. Mazzucato, H. E. Mynick, R. Nazikian, W. Park, N. Pomphrey, D. J. Sigmar, Y. Wu, R. B. White, and S. J. Zweben
Fifteenth International Conference on Plasma Physics and Controlled Nuclear Fusion Research, Seville, Spain, September 26-October 1, 1994
in [Proceedings of the Fifteenth International Conference on Plasma Physics and Controlled Nuclear Fusion Research], (Seville, Spain, September/October 1994) (International Atomic Energy Agency, Vienna, Austria, 1994) Paper IAEA-CN-60/D-3-III-2 Princeton University, Plasma Physics Laboratory Report PPPL-3033 (January 1995) 22 pp.
- 156 Nonlinear Evolution of the Alpha Particle Driven Toroidicity- Induced Alfvén Eigenmode
Y. Wu, R. B. White, Y. Chen, and M. N. Rosenbluth
Princeton University, Plasma Physics Laboratory Report PPPL-3103 (June 1995) 34 pp.,
Phys. Plasmas 2, 4555 (1995)
- 157 Rapid Guiding Center Calculations
R. B. White and A. H. Boozer
PPPL-3094 (April 1995) 16 pp.
Phys. Plasmas 2, 2915 (1995)
- 158 Modelling TF ripple loss of alpha particles in TFTR DT experiments
M. H. Redi et. al.
Nuclear Fusion 35, 1509-1516 (1995)

- 159 Overview of DT Results from TFTR
M. G. Bell et. al.
Nucl Fus 35, 1429-1436 (1995)
- 160 Non-linear Analysis of the Toroidicity Induced Alfvén Eigenmode
R. B. White, Y. Wu, Y. Chen, E. D. Fredrickson, D. S. Darrow, M. C. Zarnstorff, J. R. Wilson, S. J. Zweben, K. W. Hill, G. Y. Fu, and M. N. Rosenbluth
Nucl. Fusion [35] 1707-1712 (1995)
- 161 Extended representation for ballooning modes in the presence of shear flows
M. Tessarotto, M. Chance, R. B. White, and L. J. Zheng,
Phys. Letters A [202] 288 (1995).
- 162 Recent D-T Results on TFTR
D. W. Johnson et. al.
PPPL-3147(October 1995)
Plasma Phys./Control. Fus. 37, A69-A85 (1995)
- 163 TF Ripple Loss of Alpha Particles in TFTR DT Experiments
M. H. Redi et. al.
PPPL-3139 (August 1995)
Proceedings of the Twenty-second European Physical Society Conference on Controlled Fusion and Plasma Physics, (Bournemouth, United Kingdom, 3-7 July 1995) Vol. 19c, 105(1995)

- 164 First Observation of Alpha Particle Loss Induced by Kinetic Ballooning Modes in TFTR Deuterium-Tritium Experiments
Z. Chang et. al.
Phys Rev Lett 76, 1071-1074 (1996)
- 165 Simulations of alpha particle ripple loss from the International Thermonuclear Experimental Reactor
M. H. Redi, R. V. Budny, D. C. McCune, C. O. Miller, and R. B. White
Phys. Plasmas [3] 3037-3042 (1996)
- 166 Ripple Induced Energetic Particle Loss in Tokamaks
R. B. White, R. J. Goldston, M. H. Redi and R. V. Budny
Physics Plasmas [3] 3043-3054 (1996)
- 167 Existence of weakly non-axisymmetric scalar-pressure magnetostatic equilibria
M. Tessarotto, J.L. Johnson, R. B. White, and L. J. Zheng,
Phys. Letters A [218], 304 (1996).
- 168 Quasi-helical magnetohydrodynamic equilibria in the presence of flow
M. Tessarotto, J.L. Johnson, R. B. White, and L. J. Zheng
Phys. Plasmas [3] 2653 (1996).
- 169 Alpha Particle Losses from Tokamak Fusion Test Reactor Deuterium-Tritium Plasmas
D. S. Darrow et. al.
PPPL-3164,
Phys. Plasmas 3, 1875-1880 (May 1996)
- 170 Occurrence of Sawteeth in ITER and their effects on Alpha Particles and Stability
R. V. Budny, G. Y. Fu, N. N. Gorelenkov, J. Manickam, M. P. Petrov, M. H. Redi, S. Sabbagh, R. B. White, L. Zaknarov, Y. Zhao, and S. J. Zweben
Proceedings of the Twenty third European Physical Society Conference on Controlled Fusion and Plasma Physics (Kiev, Ukraine, 1996) Vol. I, pp55-58
- 171 TF Ripple Loss of Alpha Particles from the ITER Interim Design: Simulation and Theory
M. H. Redi, R. J. Goldston, R. B. White, R. V. Budny, D. C. McCune, C. O. Miller, and S. J. Zweben
PPPL-3198,
Proceedings of the Twenty third European Physical Society Conference on Controlled Fusion and Plasma Physics (Kiev, Ukraine, 1996) Vol. I, pp55-58
- 172 Review of D-T Results from TFTR
R. J. Hawryluk et. al.
Princeton University, Plasma Physics Laboratory Report PPPL-3197 (1996) 12 pp.
Twelfth Topical Meeting on Technology of Fusion Energy, Reno NV, June 17-20, 1996, 12 pp.
- 173 Recent Progress in Linear and Nonlinear Studies of Toroidal Alfvén Eigenmodes
G. Y. Fu, Y. Chen, R. Budny, Z. Chang, C. Z. Cheng, D. S. Darrow, E. Fredrickson, E. Mazzucato, R. Nazikian, W. Park, R. B. White, K. L. Wong, Y. Wu, and S. Zweben
in [Proceedings of sixteenth Conference on Plasma Physics and Controlled Thermonuclear Fusion Research], (Montreal, Canada) (October 1996) Paper IAEA-FI-CN-64/D2-6

- 174 Sawtooth Mixing of Alpha Particles in TFTR D-T Plasmas
M. P. Petrov et. al.
in [Proceedings of sixteenth Conference on Plasma Physics and Controlled Thermonuclear Fusion Research], (Montreal, Canada) (October 1996) Paper IAEA-CN-64/A2-2

- 175 Physics of High Performance Deuterium-Tritium Plasmas in TFTR
K. M. McGuire et. al.
in [Proceedings of sixteenth Conference on Plasma Physics and Controlled Thermonuclear Fusion Research], (Montreal, Canada) (October 1996) Paper IAEA-CN-64/A2-2
Plasma Phys. Control. Nucl. Fus. Res. (1997)
- 176 Collisional δf method
Yang Chen and Roscoe. B. White
Phys. Plasmas [4] 3591-3598 (October, 1997)
- 177 Self-similarity and transport in the standard map
S. Benkadda, S. Kassibrakis, R. B. White and G. M. Zaslavsky
Phys. Rev E [55] 4909-4917 (May, 1997)
- 178 Symbolic Analysis of Chaotic Signals and Turbulent Fluctuations
M. Lehrman, A. B. Rechester, and R. B. White
Phys. Rev Lett [78] 54-57 (Jan, 1997)
- 179 The effect of toroidal field ripple on confined alphas in TFTR DT plasmas
H.H. Duong, R. K. Fisher, S. S. Medley, M. P. Petrov, N. N. Gorelenkov, R. V. Budny, D. K. Mansfield, J. M. McChesney, P.B. Parks, A. L. Roquemore, R. B. White, S. J. Zweben
Nuclear Fusion [37] 271-282 (1997)
- 180 Observations of Neutral Beam and ICRF Tail Losses Due to Alfvén Modes in TFTR
D. S. Darrow, S. J. Zweben, Z. Chang, C. Z. Cheng, E. D. Fredrickson, E. Mazzucato, R. Nazikian, C. Kieras-Phillips, S. Popovichev, M. H. Redi, R. B. White, J. R. Wilson, and K. -L. Wong
Nuclear Fusion [37] 939-954 (1997)
- 181 Alpha Particle Driven Toroidal Alfvén Eigenmodes in the Tokamak Fusion Test Reactor
R. Nazikian et. al.
Phys. Rev Lett [78] 2976-2979 (April, 1997)
- 182 Alpha driven magnetohydrodynamics (MHD) and MHD induced alpha loss in the Tokamak Fusion Test Reactor
Z. Chang et. al.
Phys. Plasmas [4] 1610-1616 (May, 1997)
- 183 Deuterium tritium plasmas in novel regimes in the Tokamak Fusion Test Reactor
M. G. Bell, S. H. Batha, M. Beer, M. G. Bell, et. al
Phys. Plasmas [4] 1714-1724 (May, 1997)
- 184 Energetic particle orbits in the National Spherical Tokamak Experiment
D. R. Mikkelsen, R. B. White, R. J. Akers, S. M. Kaye, D. C. McCune, and J. E. Menard
Phys. Plasmas [4] 3667-3675 (October, 1997)
- 185 Calculations of alpha particle loss for reversed magnetic shear in the Tokamak Fusion Test Reactor
M. H. Redi, R. B. White, S. H. Batha, F. M. Levinton, and D. C. McCune
Phys. Plasmas [4] 4001-4008 (November, 1997)
- 186 Simulation of α particle redistribution due to sawteeth on the Tokamak Fusion Test Reactor
Yi Zhao, and R. B. White
Phys. Plasmas [4] 1103-1109 (April, 1997)
- 187 Alpha-driven magnetohydrodynamics (MHD) and MHD-induced alpha loss in the Tokamak Fusion Test Reactor
Z. Chang et al
Phys. Plasmas [4] 1610-1616 (May, 1997)
- 188 Alpha particle physics in the Tokamak Fusion Test Reactor DT experiment
S. J. Zweben et. al.
Plasma Phys. Control. Fusion [39] A275-A283 (1997)
- 189 TFTR DT experiments
J. Strachan et. al.
Plasma Phys. Control. Fusion [39]B103-B114 (1997)

- 190 Plasma Wall Interaction and Tritium Retention in TFTR During D-T Plasma Discharges
 C. H. Skinner et. al.
 PPPL-3189 (May 1996)
 Twelfth INTnl. Conf. on Plasma Surface Interactions in Controlled Fusion Devices, Saint Raphael,
 France, May 20-24, 1996
 J. Nucl. Mater. 214-226 (1997)

- 191 Effects of $q(r)$ on the Alpha Particle Ripple Loss in TFTR
 S. J. Zweben, D. S. Darrow, S. H. Batha, R. V. Budny, M. Diesso, H. W. Hermann, J. Giarrusso, M.
 H. Redi, H. Takahashi, S. Von Goeler, R. B. White, and R. M. Wieland
 Nuclear Fusion [38] 739-760 (May, 1998)
- 192 Summary of Alpha Particle Transport
 S. J. Zweben, S. S. Medley, and R. B. White
 Nuclear Fusion [38] 1-8 (1998)
- 193 Toroidal Alfvén eigenmodes in TFTR deuterium-tritium plasmas
 R. Nazikian, et. al.
 Physics of Plasmas [5] 1703-1711 (May, 1998)
- 194 Fusion Plasma experiments on TFTR: a 20 year retrospective
 R. J. Hawryluk et. al.
 Phys. Plasmas [5] 1577-1589 (May, 1998)
- 195 Theory of resonance influence of sawtooth crashes on ions with large orbit width
 Y. I. Kolesnichenko, V. V. Lutsenko, Yu. V. Yakovenko, R. B. White
 Phys. Plasmas [5] 2963-2976 (August, 1998)
- 196 Chaos in trapped particle orbits
 R. B. White
 Phys. Rev E [58] 1774-1779 (August, 1998)
- 197 Turbulent Transport Reduction by Zonal Flows: Massively Parallel Simulations,
 Z. Lin, T.S. Hahm, W.W. Lee, W.M. Tang, and R.B. White,
 Science (281), 1835-1837 (Sept, 1998)
- 198 Near Threshold anomalous transport in the standard map
 R. B. White, S. Benkadda, S. Kassibrakis, and G. M. Zaslavsky
 Chaos [8] 757-767 (Dec, 1998)
- 199 Confined trapped alpha behavior in TFTR deuterium-tritium plasmas
 S. Medley, R. Budny, H. Duong, R. Fisher, M. Petrov, N. Gorelenkov, M. Redi, A. Roquemore, R.
 B. White
 Nucl. Fus., Vol. 38, No. 9, 1283-1302 Sep (1998)

- 200 Linear and Nonlinear Study of Fast Particle Excitation of Alfvén Eigenmodes
 N.N. Gorelenkov, C. Z. Cheng, Y. Chen, G. Y. Fu, R. Nazikian, R. B. White, M. V. Gorelenkova, H.
 L. Berk
 17th IAEA Fusion Energy Conference, Yokohama, 1998 (IAEA editor Vienna, 1999), IAEA-F1-CN-
 69/THP2/21
- 201 Numerical and Theoretical Studies of Turbulence and Transport with ExB Shear Flows
 Z. Lin, M. S. Chance, T. S. Hahm, J. A. Krommes, W. W. Lee, I. Manuilskiy, H. E. Mynick, H. Qin,
 G. Rewoldt, W. M. Tang, R. B. White
 17th IAEA Fusion Energy Conference, Yokohama, 1998 (IAEA editor Vienna, 1999), IAEA-CN-
 69/THP2/28
- 202 Collisionless simulation of edge pedestal and Er-layer formation by X-transport in a diverted tokamak
 C. S. Chang, S. H. Ku, H. Weitzner, R. B. White,
 17th IAEA Fusion Energy Conference, Yokohama, 1998 (IAEA editor Vienna, 1999), IAEA-CN-
 94/THP3-01
- 203 Measurements of prompt and MHD-induced fast ion loss from National spherical torus experiment
 plasmas
 D. S. Darrow et all,
 17th IAEA Fusion Energy Conference, Yokohama, 1998 (IAEA editor Vienna, 1999), IAEA-CN-
 94/THP3-01

- 204 Energetic Particle Transport and alpha driven instabilities in advanced confinement D-T plasmas on TFTR
B. C. Stratton, R. V. Budny, D. S. Darrow, R. K. Fisher, E. D. Fredrickson, G. Y. Fu, S.S. Medley, R. Nazikian, M. P. Petrov, M. H. Redi, E. Ruskov, G. Taylor, R. B. White, S. J. Zweben
17th IAEA Fusion Energy Conference, Yokohama, 1998 (IAEA editor Vienna, 1999), IAEA-CN-69/OV4/2
- 205 Chapter 5: Physics of Energetic ions
J. Jacquinet, S. Putvinski, G. Bosia et al
Nucl. Fus., Vol. 39, No. 12, 2471-2494 Dec (1999)
- 206 Theory of radial electric field and rotation generation by ICRH in tokamaks
C. S. Chang, S. J. Zweben, R. B. White, C. K. Phillips, H. Park, M. Zarnstorff, P. T. Bonoli, J. E. Rice, J. J. Greenwald, J. Degraessie
17th IAEA Fusion Energy Conference, Yokohama, 1998 (IAEA editor Vienna, 1999), IAEA-F1-CN-69/THP2/34
- 207 Results from D-T experiments on TFTR and implications for achieving an ignited plasma
R. J. Hawryluk et. al.
Phil. Trans. R. Soc. Lond. A 443-469 (1999)
- 208 Numerical Study of the nonlinear evolution of Toroidicity-induced Alfvén Eigenmodes
Yang Chen, R. B. White, Guo-yong Fu, Raffi Nazikian
Phys. Plasmas [6] 226-237 (1999)
- 209 Reply to “Comment on ‘Self-similarity and transport in the standard map’”
S. Benkadda, S. Kassibrakis, R. B. White, and G. M. Zaslavsky
Phys Rev. E [59] 3761-3764 (March, 1999)
- 210 Distribution of alpha particles escaping to the wall during sawtooth oscillations in the Tokamak Fusion Test Reactor
Y. I. Kolesnichenko, V. V. Lutsenko, Yu. V. Yakovenko, R. B. White, S. J. Zweben
Phys. Plasmas [6] 1117-1130 (April, 1999)
- 211 Generation of plasma rotation by ion cyclotron resonance heating in tokamaks
C. S. Chang, C.K. Phillips, R. B. White, S. J. Zweben, P.T. Bonoli, J. E. Rice, J.J. Greenwald, J. deGrassie
Phys. Plasmas [6] 1969-1977 (May, 1999)
- 212 Role of Alfvén instabilities in energetic ion transport
S. Bernabei et. al.
Phys. Plasmas [6] 1880-1884 (May, 1999)
- 213 Effective temperatures, sawtooth mixing, and stochastic diffusion ripple loss of fast H+ minority ions driven by ion cyclotron heating in the Tokamak Fusion Test Reactor
M. P. Petrov, R. Bell, R. V. Budny, N. N. Gorelenkov, S.S. Medley, R. B. White and S. J. Zweben
Phys. Plasmas [6] 2430-2436 (June, 1999)
- 214 Anomalous beam-ion loss in TFTR reversed magnetic shear plasmas
E. Ruskov, M. Bell, R. V. Budny, D. C. McCune, S. S. Medley, M. H. Redi, S. Scott, E. J. Synakowski, S. von Goeler, R. B. White, and S. J. Zweben
Phys. Rev Lett 82, 924-927 Feb (1999)
- 215 Neoclassical Simulations of Fusion Alpha Particles in Pellet Charge Exchange Experiments on the Tokamak Fusion Test Reactor
M. H. Redi, S. H. Batha, R. V. Budny, D. S. Darrow, F. M. Levinton, D. C. McCune, S. S. Medley, M. P. Petrov, S. vonGoeler, R. B. White, M. C. Zarnstorff, S. J. Zweben and the TFTR Team
PPPL 3342, February, 1999,
Phys. Plas. [6], 2826-2833 (July 1999)
- 216 Fusion Performance Analysis of plasmas with reversed magnetic shear in the tokamak fusion test reactor
E. Ruskov, M. Bell, R. V. Budny, D. C. McCune, S. S. Medley, R. Nazikian, S. von Goeler, R. B. White, and S. J. Zweben
Phys. of Plasmas [6], 3247-3262 (August, 1999)
- 217 Energetic particle transport in compact quasi-axisymmetric stellarators
M. H. Redi, H. E. Mynick, M. Siewattana, R. B. White, and M. C. Zarnstorff
Phys. Plas. [6], 3509-3520 Sept (1999)
- 218 Physics of compact stellarators
S. Hirshman et al
Phys. Plas. [6], 1858-1864 May (1999)

- 219 Physics design of a high- β quasi-axisymmetric stellarator
A. Reiman et. al.
Plasma Phys. Control. Fus. [41], B273-B283 (1999)
- 220 Saturation of alpha particle driven instability in Tokamak Fusion Test Reactor
N. N. Gorelenkov and Y. Chen and R. B. White and H. L. Berk,
Phys. Plasmas, [6], 629-632 (1999)

- 221 Effect of sawtooth oscillations on energetic ions
Y. I. Kolesnichenko, V. V. Lutsenko, Yu. V. Yakovenko, R. B. White
Nucl. Fus., Vol. 40, No. 7, 1325-1341 (2000)
- 222 Numerical and theoretical studies of turbulence and transport with ExB shear flows
Z. Lin et al
Nucl. Fus., Vol. 40, No. 7, 737-741 Mar (2000)
- 223 Small Action Particles in a Tokamak in the Presence of an n=1 Mode
Y. I. Kolesnichenko, V. V. Lutsenko, R. B. White Yu. V. Yakovenko
Phys Rev Lett 84, 2152-2155, (March, 2000)
- 224 Generation of Plasma Rotation in a Tokamak by Ion-Cyclotron Absorption of Fast Alfvén Waves
F. W. Perkins, R. B. White, and P. Bonoli
Proceedings of European Physical Society Meeting, Budapest June (2000)
- 225 Rotation and Particle Loss in Tore Supra
R. B. White, F. W. Perkins, X. Garbet, C. Bourdelle, V. Basiuk, L. G. Eriksson
Proceedings of European Physical Society Meeting, Budapest June (2000)
- 226 Zonal Flow Excitation by Drift Waves in Toroidal Plasmas
Liu Chen, Zhihong Lin, Roscoe White
Proceedings of European Physical Society Meeting, Budapest June (2000)
- 227 Excitation of Zonal Flow by Drift Waves in Toroidal Plasmas
Liu Chen, Zhihong Lin, Roscoe White
Phys. Plasmas [7] 3129-3132 (2000)
- 228 The KSTAR project: An advanced steady state superconducting tokamak experiment
G. S. Lee, J. Kim, S. M. Hwang, et al
Nuclear Fusion 40 3y 575-582 (2000)
- 229 Gyrokinetic simulations in general geometry and applications to collisional damping of zonal flows
Zhihong Lin, TS Hahm, WW Lee, W. Tang, Roscoe White
Phys. Plasmas [7] 1857-1862 May (2000)
- 230 Fast particle destabilization of toroidicity-induced Alfvén eigenmodes in the National Spherical Torus Experiment
N. Gorelenkov, CZ Cheng, Gy Fu, S. Kaye, R. White, MV Gorelenkova
Phys. Plasmas [7] 1433-1436 May (2000)
- 231 Expulsion of Energetic Ions from the Plasma Core in the Presence of Sawtooth Oscillations in Spherical Tokamaks
Y. I. Kolesnichenko, V. V. Lutsenko, R. B. White Yu. V. Yakovenko
Research Coordination Meeting of the IAEA Coordinated Research Project "Comparison of Compact Toroid Configuration" at IAEA Headquarters, Vienna, 10-14 July 2000

- 232 Physics of the compact advanced stellarator NCSX
M. Zarnstorff et. al.
Plasma Phys. Control. Fus. [43], A237-A249 Dec (2001)
- 233 Expulsion of energetic ions from the plasma core in the presence of sawtooth oscillations in spherical tokamaks
Ya.I. Kolesnichenko, V.V. Lutsenko, R.B. White, Yu.V. Yakovenko
Comparison of Compact Toroid Configurations (Report of the second Research Co-ordination Meeting, 10-14 July 2000), Reproduced by the IAEA, Vienna, 2001, p.98.
- 234 Generation of plasma rotation in a tokamak by ion cyclotron absorption of fast Alfvén Waves.
F. W. Perkins, R. B. White, P. T. Bonoli and V. S. Chan,
Physics of Plasmas 8, 2181-2187 May (2001)

- 235 The combined effect of EPMS and TAEs on energetic ion confinement and sawtooth stabilization,
S. Bernebei et al,
Nucl Fus 41, 513-518 May (2001)
- 236 Transport of energetic ions during relaxation oscillations in plasmas of spherical tori,
Ya. I. Kolesnichenko, V. V. Lutsenko, R. B. White, Yu. V. Yakovenko,
Physics Letters A 287, 131-136 Aug (2001)
- 237 Low frequency fishbone mode induced by circulating particles in spherical tori,
Ya. I. Kolesnichenko, V. S. Marchenko, and R. B. White,
Physics of Plasmas 8, 3143-3145 July (2001)
- 238 The toroidicity induced Alfvén eigenmode structure in DIII-D: implications of soft x-ray and beam-
ion loss data,
E. M. Carolipio, W. W. Heidbrink, C. Z. Cheng, G. Y. Fu, D. A. Spong, A. D. Turnbull, and R. B.
White,
Physics of Plasmas 8, 3391-3401 July (2001)
- 239 Non linear zonal dynamics of drift and drift Alfvén turbulence in tokamak plasmas,
L. Chen, Z. Lin, R. B. White, and F. Zonca,
Nucl Fus 41, 747-753 June (2001)
- 240 On resonant heating below the cyclotron frequency,
Liu Chen, Zhihong Lin and Roscoe White,
Phys Plasmas 8, 4713-4716 Nov (2001)
- 241 Ion heating by Fast particle induced Alfvén turbulence,
D. A. Gates, N. N. Gorelenkov, and R. B. White
Phys Rev Lett 87, 205003 Nov (2001)
- 242 Recent advances in the design of quasiaxisymmetric stellarator plasma configurations,
A. Reiman et al.,
Physics of Plasmas 8, 2083-2094 May (2001)
- 243 Comparison of Theory with Rotation Measurements in JET ICRH Plasmas
R. V. Budny, C. S. Chang, C. Giroud, R. J. Goldston, D. McCune, J. Ongena, F. W. Perkins, R. B.
White, K. D. Zastrow
EPS Conference Madeira Portugal (2001)

- 244 On plasma rotation induced by traveling fast Alfvén Waves
F. W. Perkins, R. B. White, and V. S. Chan,
Physics of Plasmas 9, 511-516 Feb (2002)
- 245 Resonant heating below the cyclotron frequency
R. B. White, Liu, Chen, and Zhihong Lin,
Physics of Plasmas 9, 1890-1897 May (2002)
- 246 Mechanisms of stochastic diffusion of energetic ions in spherical tori
Y. Kolesnichenko, R. B. White, Y. Yakovenko,
Physics of Plasmas 9, 2639-2654 June (2002)
- 247 Effect of trapped energetic ions on MHD activity in spherical tori,
Ya. I. Kolesnichenko, V. V. Lutsenko, V. S. Marchenko, and R. B. White
Physics Lett A 305, 245-250 Dec (2002)
- 248 Simulations of beam ion transport during tearing modes in the DIII-D tokamak
E. M. Carolipio, W. W. Heidbrink, C. B. Forest, and R. B. White
Nucl Fus 42, 853-862 Aug(2002)
- 249 The effect of MHD instabilities on performance of the National Spherical Torus experiment
E. D. Fredrickson, C. Z. Cheng, D. Darrow, N. Gorelenkov, D. Johnson, S. Kaye, J. Menard, Roscoe
White
Proceedings of European Physical Society Meeting, June (2002)
- 250 Calculation of neutral beam ion confinement for the National Spherical Torus experiment
M. H. Redi, D. Darrow, J. Egedal, S. Kaye, Roscoe White
Proceedings of European Physical Society Meeting, June (2002)
- 251 Lagrangian description of nonadiabatic particle motion in spherical tori
Yu. Yakovenko, Ya. I. Kolesnichenko, and R. B. White
Proceedings of European Physical Society Meeting, June (2002)

- 252 Compressional Alfvén eigenmode instability in NSTX
 N. Gorelenkov, C.Z. Cheng, E. Fredrickson, E. Belova, D. Gates, S. Kaye, G. Kramer, R. Nazikian, and R. B. White
 Nucl Fus 42, 977-985 Aug (2002)
- 253 First results of SXR profile measurements in the MST reversed field pinch
 B. E. Chapman, P. Franz, L. Marrelli, P. Martin, R. Pasqualotto, P. Piovesan, I. Predebon, G. Spizzo, R. B. White, and C. Xiao
 Proceedings of European Physical Society Meeting, June (2002)

- 254 Hamiltonian guiding center equations in toroidal magnetic configurations,
 Roscoe White and Leonid Zakharov,
 Phys Plasmas 10, 573-576 March (2003)
- 255 Neoclassical Transport in stellarators
 C. D. Beidler, S. V. Kasilov, W. Kernbichler, H. Massberg, D. R. Mikkelsen, S. Murakami, V. V. Nemov, M. Schmidt, D. A. Spong, V. Tribaldos, A. Wakasa, R. B. White
 Proceedings of European Physical Society Meeting, July (2003)
- 256 Precession of toroidally passing particles in tokamaks and spherical torii
 Ya. I. Kolesnichenko, and R. B. White, Yu. Yakovenko,
 Phys Plasmas 10, 1449-1457 May (2003)
- 257 Bounce precession fishbones in the national spherical torus experiment
 Eric Fredrickson, Liu Chen, and R. B. White,
 Nuclear Fusion, 43, 1258-1264 Oct (2003)
- 258 Destabilization of fast magnetoacoustic waves by circulating energetic ions in toroidal plasmas
 V. S. Belikov, Ya. I. Kolesnichenko, and R. B. White,
 Phys Plasmas 10, 4771-4775 Dec (2003)
- 259 Wave driven fast ion loss in the national spherical torus experiment
 Eric. Fredrickson, C. Z. Cheng, D. Darrow, G. Fu, N.N. Gorelenkov, G. Kramer, S.S. Medley, J. Menard, L. Roquemore, D. Stutman, and R. B. White,
 Phys Plasmas 10, 2852-2862 (2003)
- 260 Theory and observations of high frequency Alfvén eigenmodes in low aspect ratio plasmas
 N. N. Gorelenkov, E. Fredrickson, E. Belova, C. Z. Cheng, D. Gates, S. Kaye, and R. B. White,
 Nuclear Fusion, 43, 228-233 (2003)
- 261 Overview of quasi single helicity experiments in reversed field pinches
 P. Martin et al
 Nuclear Fusion, 43, 1855-1862 Dec (2003)

- 262 Alfvén continuum and Alfvén eigenmodes in the National Compact Stellarator Experiment
 O. P. Fesenyuk, Ya. I. Kolesnichenko, V. V. Lutsenko, R. B. White, and Yu. V. Yakovenko
 Phys Plasmas 11, 5444 Nov (2004)
- 263 Double kink fishbone instability caused by circulating ions
 Ya. I. Kolesnichenko, V. V. Lutsenko, V. S. Marchenko, and R. B. White,
 Phys Plasmas 11, 1803 May (2004)
- 264 Energetic ion transport and concomitant change in fusion activity during reconnection events in spherical torii
 Ya. I. Kolesnichenko, V. V. Lutsenko, R. B. White et al
 Phys Plasmas 11, 11, 5302 Nov (2004)
- 265 Collisional transport in a low aspect ratio tokamak
 D. Gates, H. Mynick, and R. B. White,
 Phys Plasmas 11, L45-L48 Sept (2004)
- 266 Zonal flow dynamics and size scaling of anomalous transport,
 L. Chen, R. B. White, and F. Zonca
 Phys Rev Lett 92, 075004 Feb (2004)
- 267 Nonlinear paradigm for drift wave-zonal flow interplay: coherence, chaos, and turbulence,
 F. Zonca, R. B. White, and L. Chen
 Phys Plasmas 11, 2488-2496 May (2004)

- 268 Ignited spherical tokamaks and plasma regimes with Li walls,
L. E. Zakharov, N. N. Gorelenkov, R. B. White, S. I. Krasheninnikov and G. V. Pereverzev
Fusion Engineering and Design 72, 149 (2004)
- 269 Influence of helically shaped fields on particle transport in the RFP
I. Predebon, L. Marrelli, P. Martin, R. B. White
Proceedings of 31st European Physical society conference on Plasma Physics, London, June (2004),
ECA Vol 28G, P 2.112 (2004)
- 270 Influence of $q=0$ surface on transport in the RFP
A. Cravotta, S. Cappello, D. F. Escande, L. Marrelli, P. Martin, I. Predebon, G. Spizzo, R. B. White
Proceedings of 31st European Physical society conference on Plasma Physics, London, June (2004),
ECA Vol 28G, P 2.107 (2004)
- 271 Observation of multiple magnetic islands in the core of a reversed field pinch
P. Franz, L. Marrelli, P. Piovesan, BE Chapman, P. Martin, I. Predebon, G. Spizzo, R. White, C.
Xiao
Phys Rev Lett 92, 125001 Mar (2004)
- 272 Particle transport analysis in reversed field pinch helical states,
I. Predebon, L. Marrelli, R. B. White, and P. Martin
Phys Rev Lett 93, 145001 Oct (2004)
- 273 Global δf particle simulation of neoclassical transport and ambipolar electric field in general geometry,
W. X. Wang, W. M. Tang, F. L. Hinton, L. E. Zakharov, R. B. White, J. Manickam
Computer Physics Communications 164, (2004), p178-182
- 274 On the stabilization of fast magnetoacoustic waves by toroidally trapped energetic ions
Belikov, V. S.; Kolesnichenko, Y. I.; White, R. B.
Physics of Plasmas Volume: 11 Issue: 12 Pages: 5409-5412 (2004)

- 275 Non conventional fishbone instabilities
Y. Kolesnichenko, V. Lutsenko, V. Marchenko, R. White,
18th IAEA Fusion Energy Conference, Portugal, 2004 (IAEA editor Vienna, 2005), IAEA-CN-
94/THP4-42
- 276 Transport in a small aspect ratio torus
R. White, D. Gates, H. Mynick
18th IAEA Fusion Energy Conference, Portugal, 2004 (IAEA editor Vienna, 2005), IAEA-CN-
94/THP4-42
- 277 Overview of results in the MST reversed pinch
S. C. Prager et al
18th IAEA Fusion Energy Conference, Portugal, 2004 (IAEA editor Vienna, 2005), IAEA-CN-
94/OV4-2
- 278 Zonal flow dynamics and anomalous transport,
R. B. White, L. Chen, and F. Zonca
Phys Plasmas 12, 057304 (2005)
- 279 Stabilization of sawtooth oscillations by the circulating energetic ions,
Ya. Kolesnichenko, V.s. Marchenko, R. B. White
Phys Plasmas 12, 022501 (2005)
- 280 Ion acceleration in plasmas with Alfvén waves
O. Ya. Kolesnichenko, V. V. Lutsenko, R. B. White
Phys Plasmas 12, 102101 (2005)
- 281 Imaging of a double helical structure in the reversed field pinch
F. Bonomo, B. E. Chapman, P. Franz, L. Marrelli, P. Martin, P. Piovesan, I. Predebon, G. Spizzo,
and R. B. White
IEEE transactions on plasma science, vol 33, 458 (2005)
- 282 Progress towards high performance plasmas in the National Spherical Torus Experiment (NSTX)
Kaye, SM; Bell, MG; Bell, RE; et al.
Nuclear Fusion Volume: 45 Issue: 10 Pages: S168-S180 (2005)
- 283 Trapped particles in the RFP single helicity states
Predebon, I.; Marrelli, L.; White, R. B.; et al.
Ieee Transactions on Plasma Science Volume: 33 Issue: 2 Pages: 460-461 (2005)

- 284 Interchange and infernal fishbone modes in plasmas with tangentially injected beams,
Ya. Kolesnichenko, V.s. Marchenko, R. B. White
Phys Plasmas 13, 052504 (2006)
- 285 Transport barrier inside the reversal surface in the chaotic regime of the reversed pinch
G. Spizzo, S. Cappello, A. Cravotta, D. F. Escande, I. Predebon, L. Marrelli, P. Martin, and R. B. White
Phys Rev Lett 96, 025001 (2006)
- 286 Nonlocal neoclassical transport in tokamak and spherical torus experiments,
W. X. Wang, G. Rewoldt, W. M. Tang, F. L. Hinton, J. Manickam, L. E. Zakharov, R. B. White and S. Kaye
Phys Plasmas 13, 082501 (2006)
- 287 High frequency shear Alfvén instability driven by circulating energetic loss in NSTX,
Ya. Kolesnichenko, V. V. Lutsenko, V.S. Marchenko, R. B. White
Phys Plasmas 13, 122503 (2006)
- 288 Effect of plasma shaping on performance in the National Spherical Torus Experiment,
D. Gates et al
Phys Plasmas 13, 056122 (2006)
- 289 Improved particle confinement in transition from multiple-helicity to quasi-single-helicity regimes of a reversed-field pinch
Frassinetti, L.; Predebon, I.; Koguchi, H.; et al.
Physical Review Letters Volume: 97 Issue: 17 (2006)

- 290 Stabilization of the quasi-interchange mode by circulating energetic ions,
Ya. Kolesnichenko, V. V. Lutsenko, V.S. Marchenko, R. B. White
Phys Plasmas 14, 012504 (2007)
- 291 Improved particle confinement,
Ya. Kolesnichenko, V. V. Lutsenko, V.S. Marchenko, R. B. White
Phys Plasmas 14, x (2007)
- 292 Maintaining the quasi-steady state central current density profile in hybrid discharges,
M. S. Chu, D. P. Brennan, V. S. Chan, M. Choi, R. J. Jayakumar, L. L. Lao, R. Nazikian, P.A. Politzer, H. E. St John, A. D. Turnbull, M. A. Van Zeeland and R. B. White
Nucl. Fusion 47 No 5, 434-442 (2007)
- 293 Magnetohydrodynamic activity and energetic ions in fusion plasmas,
Ya. Kolesnichenko, V. V. Lutsenko, V.S. Marchenko, A. Weller, R. B. White, Yu V Yakovenko and K. Yamazaki
Plasma Phys Control. Fusion 49 (2007) A159-A166
- 294 Ion and electron local transport inside single helicity islands in the reversed field pinch
M. Gobbin, L. Marrelli, P. Martin, and R. B. White
Phys Plasmas 14, 072305 (2007)
- 295 Chaos generated pinch effect in toroidal confinement devices
G. Spizzo, R.B. White, S. Cappello, Phys Plasmas 14, 102310 (2007)
- 296 Anomalous flattening of the Fast-Ion Profile during Alfvén-Eigenmode Activity
W. W. Heidbrink, N. N. Gorelenkov, Y. Luo, M. A. Van Zeeland, R. B. White, B. Alper, H. L. Berk, D. Borba, R. V. Budny, M. E. Austin, K. H. Burrell, G. J. Kramer, M. A. Makowski, G. R. McKee, R. Nazikian, and the DIII-D team
Phys Rev Lett 99 245002 (2007)
- 297 Overview of recent physics results from the national spherical torus experiment (NSTX)
Menard, J. E.; Bell, M. G.; Bell, R. E.; et al.
Nuclear Fusion Volume: 47 Issue: 10 Pages: S645-S657 (2007)

- 298 Tearing Modes in Tokamaks
R.B. White, *Proceedings of the first ITER Summer School*, Aix en Provence, 2008.
- 299 High Energy Particles in Tokamaks
R.B. White, *Proceedings of the first ITER Summer School*, Aix en Provence, 2008.

- 300 Resonance between passing fast ions and MHD instabilities both in the tokamak and the RFP configurations
M. Gobbin, R.B. White, L. Marrelli, P. Martin,
Nucl Fusion **48** (2008) 075002.
- 301 Central flattening of the fast-ion profile in reversed shear DIII-D discharges
W. W. Heidbrink et al
Nucl Fusion **48** (2008) 084001.
- 302 Excitation of Alfvén eigenmodes by low energy beam ions in the DIII-D and JET tokamaks
R. Nazikian, N. N. Gorelenkov, B. Alper, H. L. Berk, D. Borba, R. V. Budny, G. Y. Fu, W. W. Heidbrink, G. J. Kramer, M. A. Makowski, S. D. Pinches, S. E. Sharapov, W. M. Solomon, E. J. Strait, R. B. White, M. A. Van Zeeland, and JET-EFDA contributors
Phys of Plasmas **15** 056107 (2008)

- 303 Numerical studies of transport mechanisms in RFX-mod low magnetic chaos regimes
M Gobbin, L Marrelli and R B White
Plasma Phys. Control. Fusion **51** (2009) 065010.
- 304 Nonlocal transport in the reversed field pinch
G. Spizzo, R B White, S. Cappello, and L. Marrelli
Plasma Phys. Control. Fusion **51** (2009) 124026.
- 305 Numerical simulations of fast ion loss measurements induced by magnetic islands in the ASDEX Upgrade tokamak
M. Gobbin, L. Marrelli, H.U. Fahrbach, M. Garcia-Munoz, S. Gunter, P. Martin, R.B. White and the ASDEX Upgrade Team
Nuclear Fusion **49** (2009) 095021.
- 306 Overview of RFX-mod results
P. Martin et al
Nuclear Fusion **49** (2009) 104019.
- 307 Nonlinear interaction between ions and multiple electrostatic waves
Zeng-Mao Sheng, Limin Yu, and Roscoe White
Phys. of Plasmas **16** (2009)
- 308 Overview of results from the National Spherical Torus Experiment (NSTX)
Gates, D. A.; Ahn, J.; Allain, J.; et al.
Nuclear Fusion Volume: 49 Issue: 10 (2009)
- 309 Modeling fast-ion transport during toroidal Alfvén eigenmode avalanches in National Spherical Torus Experiment
E. D. Fredrickson, N. A. Crocker, R. E. Bell, D. S. Darrow, N. N. Gorelenkov, G. J. Kramer, S. Kubota, F. M. Levinton, D. Liu, S. S. Medley, M. Podest, K. Tritz, R. B. White, and H. Yuh
Phys. Plasmas **16**, 122505 (2009)
- 310 Principal physics developments evaluated in the ITER design review
Hawryluk, R. J.; Campbell, D. J.; Janeschitz, G.; et al.
Nuclear Fusion Volume: 49 Issue: 6 (2009)

- 311 Fishbone modes in compressible plasmas
Ya Kolesnichenko et al
NUCLEAR FUSION Volume: 50 8 SI 084017 (2010)
- 312 Effects of energetic-ion-driven instabilities on plasma heating, transport and rotation in toroidal systems
Ya Kolesnichenko et al
NUCLEAR FUSION Volume: 50 8 SI 084011 (2010)
- 313 Mode coupling in Alfvén instabilities
Yu Yakovenko et al
NUCLEAR FUSION Volume: 50 8 SI 084015 (2010)
- 314 Beam distribution modification by Alfvén waves
R. B. White, N. N. Gorelenkov, W. W. Heidbrink, M. A. Van Zeeland,
Phys. of Plasmas **17** 056107 (2010)
- 315 Particle distribution modification by low amplitude modes
R. B. White, N. N. Gorelenkov, W. W. Heidbrink, M. A. Van Zeeland,
Plasmas Physics Controlled Fusion **52** 045012 (2010)

- 316 Anomalous electron transport due to multiple high frequency beam driven Alfvén eigenmodes
N. N. Gorelenkov, D. Stutman, K. Tritz, A. Boozer, L. Delgado-Aparicio, E. Fredrickson, S. Kaye, and R. B. White
Nucl. Fusion 50 084012 (2010)
- 317 Neoclassical transport in the helical reversed field pinch
M. Gobbin, G. Spizzo, L. Marrelli, and R. B. White
Phys. Rev. Letters 105, 195006 (2010)

- 318 Transport of Energetic Ions due to Microturbulence, Sawteeth, and Alfvén Eigenmodes
D. C. Pace et al
23rd IAEA Fusion Energy Conference, Daejeon, 2010 (IAEA editor Vienna, 2011), IAEA-CN/EXW/4-2
- 319 Non-linear dynamics of toroidicity-induced Alfvén eigenmodes on NSTX
M. Podesta et al
23rd IAEA Fusion Energy Conference, Daejeon, 2010 (IAEA editor Vienna, 2011), IAEA-CN/EXW/PZ-23
- 320 Modification of particle distributions by MHD instabilities II
R B White
Plasma Phys. Control. Fusion 53 (2011) 085018
- 321 Measurement and modeling of Alfvén eigenmode induced fast ion transport and loss in DIII-D and ASDEX Upgrade
M. A. Van Zeeland, W. W. Heidbrink, R. K. Fisher, M. Garcia Munoz, G. J. Kramer, D. C. Pace, R. B. White, S. Aekaeslompolo, M. E. Austin, J. E. Boom, I. G. J. Classen, S. da Gracia, B. Geiger, M. Gorelenkova, N. N. Gorelenkov, A. W. Hyatt, N. Luhmann, M. Maraschek, G. R. McKee, R. A. Moyer, C. M. Muscatello, R. Nazikian, H. Park, S. Sharapov, W. Suttrop, G. Tardini, B. J. Tobias, Y. B. Zhu, and DIII-D and ASDEX Upgrade Teams
Phys. of Plasmas 18 056114 (2011)
- 322 Overview of physics results from NSTX
Raman, R.; Ahn, J-W.; Allain, J. P.; et al.
Nuclear Fusion Volume: 51 Issue: 9 (2011)
- 323 Overview of the RFX fusion science program
Martin, P.; Adamek, J.; Agostinetti, P.; et al.
Nuclear Fusion Volume: 51 Issue: 9 (2011)

- 324 Modification of particle distributions by MHD instabilities I
R B White
Commun Nonlinear Sci. Numer. Simulations 17, 2200 (2012)
- 325 Energetic Particle Instabilities in Fusion Plasmas,
S. E. Sharapov et al
IAEA OV-4/3 (2012)
- 326 Alfvén eigenmode stability and fast ion loss in DIII-D and ITER reversed magnetic shear plasmas
M. Van Zeeland et al
Nuclear Fusion 52, 9, SI 094023 (2012)
- 327 Edge topology and flows in the reversed-field pinch
G. Spizzo, M. Agostini, P. Scarin, N. Vianello, R. B. White, S. Cappello, M. E. Puiatti, M. Valisa
Nuclear Fusion 52 , 5, 054015 (2012)
- 328 Investigation of a transient energetic charge exchange flux enhancement ('spike-on-tail') observed in neutral-beam-heated H-mode discharges in the National Spherical Torus Experiment
S. Medley et al
Nuclear Fusion 52, 1 , 013014 (2012)
- 329 Mode particle resonance in toroidal fusion devices
R.B. White, *Proceedings of the fifth ITER Summer School*, Aix en Provence, 2011. AIP Conference Proceedings, 1478, 2012

- 330 Perturbative study of energetic particle redistribution by Alfvén eigenmodes in ITER
N N Gorelenkov and R B White
Plasma Phys Controlled Fusion 55 015007 (2013) DOI: 10.1088/0741-3335/55/1/015007

- 331 Representation of Ideal Magnetohydrodynamic Modes
White, R. B.
Phys. Plasmas 20, 022105 (2013) DOI: 10.1063/1.4791661
- 332 Guiding Center Equations for Ideal Magnetohydrodynamic Modes
White, R. B.
Phys. Plasmas 20, 042116 (2013)DOI: 10.1063/1.4802094
- 333 Guiding Center Equations of high accuracy
R. White, G. Spizzo, M. Gobbin
Plasma Phys Controlled Fusion xx xx (2013)DOI: 10.1088/0741-3335/55/11/115002
- 334 Stochastic orbit loss of neutral beam ions from NSTX due to toroidal Alfvén eigenmode avalanches
D. Darrow et al
Nuclear Fusion 53, 1, 013009 (2013) DOI: 10.1088/0029-5515/53/1/13009
- 335 Properties of Alfvén eigenmodes in the toroidal Alfvén eigenmode range on the National Spherical Torus-Upgrade
M. Podesta, N. Gorelenkov, R. White, E. D. Fredrickson, S. P. Gerhardt, Kramer
Phys Plasmas 20, 082502 (2013) DOI: 10.1063/1.4817277
- 336 Energetic Particle Instabilities in Fusion Plasmas,
S. E. Sharapov et al
Nuclear Fusion 53 (2013) 104022 DOI: 10.1088/0029-5515/53/10/104022
- 337 Stochastic orbit loss of neutral beam ions from NSTX due to toroidal Alfvén eigenmode avalanches
Darrow, D. S. and Crocker, N. and Fredrickson, E. D. et al.
Nuclear Fusion 53:0, 2013
- 338 Perturbative study of energetic particle redistribution by Alfvén eigenmodes in ITER
Gorelenkov, N. N. and White, R. B.
Plasma Physics and Controlled Fusion 55:0, 2013
- 339 Fast-ion energy loss during TAE avalanches in the National Spherical Torus Experiment
Fredrickson E D, Crocker N A, Darrow D S, Gorelenkov N N, Kramer G J, Kubota S, Podesta M, White R B, Bortolon A, Gerhardt S P, Bell R E, Diallo A, LeBlanc B P, Levinton F M and Yuh H,
Nucl. Fusion 53 013006, 2013
- 340 Physics of radiation driven islands near the density limit
Gates, D. A. L. Delgado-Aparicio, White, R. B.
Nuclear Fusion 53, 063008, 2013

- 341 Reduced fast ion transport model for the tokamak transport code
Podesta M. and Gorelenkova M. and White R. B.
Plasma Phys. Control. Fusion 56, 055003 2014
- 342 Edge ambipolar potential in toroidal fusion plasmas
Spizzo, G. and Vianello, L. and White, R. B. et al
Physics of Plasmas 21, 2014
- 343 Density limit studies in the tokamak and the reversed field pinch
G. Spizzo et al
24th IAEA Fusion Energy Conference, St Petersburg, 2013 (IAEA editor Vienna, 2014), IAEA-CN/XXX editor Vienna, 2014), IAEA-CN/XXX
- 344 Developing and validating predictive models for fast ion relaxation in burning plasmas
N. Gorelenkov, W. W. Heidbrink, J. Lestz, M. Podesta, M. A. Van Zeeland, R. B. White
24th IAEA Fusion Energy Conference, St Petersburg, 2013 (IAEA editor Vienna, 2014), IAEA-CN/TH/P1-2
- 345 Effect of MHD instabilities on neutral beam current drive
M. Podesta et al
24th IAEA Fusion Energy Conference, St Petersburg, 2013 (IAEA editor Vienna, 2014), IAEA-CN/XXX
- 346 Plasma edge transport with magnetic islands- a comparison between tokamaks and reversed field pinches.
G. Ciaccio et al.
Nuclear Fusion 54 064008, 2014

- 347 Density limit studies in the tokamak and the reversed-field pinch
Spizzo, G., Pucella, G., Tudisco, O., et al.
Nuclear Fusion 55, 4 2015
- 348 An overview of recent physics results from NSTX
Kaye, S. M., Abrams, T., Ahn, J.W. et al.
Nuclear Fusion 55, 10, 2015
- 349 Overview of the RFX-mod contribution to the international Fusion Science Program
Puiatti, M. E. Dal Bello, S. Marrelli, L. et al.
Nuclear Fusion ISSN 0029-5515, 55 10 104012, 2015
- 350 Thermal island destabilization and the Greenwald limit
White, R. B., D. Gates and D. Brennan
Physics of Plasmas 22, 022514, 2015
- 351 The tokamak density limit: a Thermo-resistive Disruption Mechanism
D. A. Gates and D. P. Brennan, L. Delgado Apricio and R. B. White
Phys Plasma 22, 060701, 2015
- 352 Effects of MHD instabilities on Neutral Beam current drive
Podesta, Mario; Gorelenkova, Marina; Darrow, Doug; Fredrickson, Eric; Gerhardt, Stefan; White,
Nuclear Fusion 100408, 2015
- 353 Local wave particle resonant interaction causing energetic particle prompt loss in DIII-D plasmas
R.B. Zhangl, G.Y. Fu, R.B. White and X.G. Wang
Nucl. Fusion 55, 122002, 2015
- 354 Helical modulation of the electrostatic plasma potential due to edge magnetic islands induced by resonant magnetic perturbation fields at TEXTOR
G. Ciaccio, O. Schmitz, G. Spizzo, S. S. Abdullaev, T. E. Evans, H. Frerichs and R. B. White
Phys. Plasmas 22, 102516 (2015)
- 355 Determination of broken KAM surfaces for particle orbits in toroidal confinement systems
R. B. White
Plasma Phys. Control. Fusion 57, 115008, 2015

- 356 Observation of critical gradient behavior in Alfvén eigenmode induced fast ion transport
C. S. Collins, W. W. Heidbrink, M. E. Austin, G. E. Kramer, D. C. Pace, C. C. Petty, I. Stagner,
M. A. Van Zeeland, R. B. White, Y. B. Zhu
Phys. Rev. Lett 116, 095001 (2016)
- 357 The dynamics of a neoclassical tearing mode (NTM) influenced by energetic ions on EAST
E. Li, V. Igochine, L. Xu, T. Shi, H. Zhao, Y. Liu, A. Ti, R. White, Y. Zhu,
Plasma Phys. Control. Fusion 58, 045012, 2016
- 358 Runaway electron mitigation by applied magnetic perturbations in RFX-mod tokamak plasmas”
M. Gobbin, M. Valisa, R. B. White, D. Cester, L. Marrelli, M. Nocente, P. Piovesan, L. Stevanato,
M. Puiatti, M. Zuin
Nuclear Fusion: NF-101027.R2, 2016
- 359 Saturation of Alfvén modes in tokamaks
R. B. White, N. Gorelenkov, M. Gorelenkova, M. Podesta, S. Ethier and Y. Chen
Plasma Physics and Controlled Fusion, Volume 58, Number 11, 2016
- 360 Collisional dependence of Alfvén mode saturation in tokamaks
M. Zhou, R. B. White
Plasma Physics and Controlled Fusion, Volume xx, Number xx, 2016
- 361 Validating predictive models for fast ion profile relaxation in burning plasmas”
N. Gorelenkov, W. W. Heidbrink, G. Kramer, J. Lestz, M. Podesta, M. Van Zeeland, R. B. White
Nuclear Fusion 56, 11 (2016)
- 362 A predictive model for the tokamak density limit
Q. Teng, D.P. Brennan, L. Delgado-Aparicio, D.A. Gates, J. Swerdlow and R.B. White
Nuclear Fusion, Volume 56, Number 10 (2016)
- 363 Nonlinear asymmetric tearing mode evolution in cylindrical geometry
Q. Teng, N. Ferraro, D. Gates, S. Jardin, R. White
Physics of Plasmas (Vol.23, (2016).

II. Books, Chapters in Books, or Articles in Encyclopedias

- 1 Resistive Instabilities and Field Line Reconnector R. B. White in [Handbook of Plasma Physics], Vol. [I], Edited by M. N. Rosenbluth and R. Z. Sagdeev (North Holland, 1983), pp. 611-676
- 2 Statistical Description of the Chirikov Taylor Model in the Presence of Noise A. B. Rechester, M. N. Rosenbluth, R. B. White, and C. F. F. Karney in [Long Time Prediction in Dynamics], (edited by C. W. Horton, Jr., L. E. Reichl, and V. G. Szebehely), John Wiley and Sons, New York, 1993
- 3 Observations of MHD Activity in TFTR N. Sauthoff, K. McGuire, A. Boozer, J. D. Callen, R. J. Colchin, P. C. Efthimion, E. Fredrickson, K. Hill, D. Monticello, V. Pare, W. Park, G. Taylor, R. B. White, and H. Yamada in [Magnetic Reconnection and Turbulence] (edited by M. A. Dubois et al., Editor) (Editions de Physique, Orsay, France, 1985) 233-238
- 4 Nonlinear Tokamak Dynamics R. B. White in [From Particles to Plasma], (edited by James W. Van Dam) Addison-Wesley, 1988
- 5 Theory of Tokamak Plasmas R. B. White (North-Holland Physics, Elsevier Science Publishers B.V., The Netherlands, 1989)
- 6 Transport in a Stochastic Magnetic Field R. B. White, J. M. Rax, and Yaulin Wu in [Statistical Description of Transport in Plasma, Astro- and Nuclear Physics], edited by J. Misguich, G. Pelletier, and P. Schuck, Nova Science Publishers, Inc., (1993) pp. 75-89
- 7 Transport Near Stochastic Threshold R. B. White, J. M. Rax, Yaulin Wu, M. N. Bussac, and L. Zuppiroli in [Transport, Chaos, and Plasma Physics], edited by S. Benkadda, F. Doveil, and Y. Elskens, World Scientific, Singapore, (1993), pp. 153-164
- 8 The Theory of Toroidally Confined Plasmas, R. B. White (Imperial College Press, London, 2001) Third edition 2013
- 9 Asymptotic Analysis of Differential Equations, R. B. White (Imperial College Press, London, 2005) Revised edition 2010