

CURRICULUM VITAE

Name: Chuan Sheng Liu
Professor of Physics
(U.S. Citizen)

Education:

B.S.	Tunghai University	1960
M.A.	University of California, Berkeley	1964
Ph.D.	University of California, Berkeley	1968

Experience in Higher Education:

1993-1994	University of Maryland Acting Chairman, Department of Physics
1990-1993	University of Maryland Member, East-West Space Science Center
1990	Tunghai University Visiting Professor
1989 Summer	University of Maryland Chairman, Department of Physics and Astronomy
1985-1990	University of Maryland Chairman, Department of Physics and Astronomy
1980	Ecole Polytechnique Federale, Lausanne, Switzerland Invited Professor
1979-1980	University of Maryland Professor and Acting Director, Laboratory for Plasma and Fusion Energy Studies
1975-Present	University of Maryland Professor of Physics
1968-1970	University of California, Los Angeles Asst. Professor in Residence
1967-1968	University of California, Berkeley Acting Instructor

Research Experience:

1982-1985 GA Technologies (Gulf General Atom Co.) San Diego
Director, Division of Theoretical Sciences

1981-1982 Gulf General Atomic
Manager, Department of Plasma Theory

1980's Lawrence Livermore Laboratory
Consultant, Science Application Company

1974
Summer University of Colorado
Associate Research Physicist

1973
Summer University of California, Los Angeles
Associate Research Physicist

1972
Summer Princeton Plasma Physics Laboratory
Associate Research Physicist

1971-1974 Institute for Advance Study
Member, Long-term (5 years)

1970-1971 Gulf General Atomic
Visiting Scientists

Honors & Awards:

1990 Honorary Society
Sigma Pi-Sigma

1994 Honorary Doctor of Science
Chalmers University of Technology, Sweden

1995 Distinguished International Service Award
University of Maryland

1995 Honorary Professor
Anhui University, Chinese University of Electronic Science

1995 Guest Professor
Peking University

1997 Guest Professor
University of Chinese Science and Technology

Professional Activities:

Fellow, American Physical Society

Chair, Committee on Plasma Science, National Research Council (1997)

Chairman, Division of Plasma Physics, American Physical Society (1993)

16. Ordinary-Mode Electromagnetic Instability in a Counter-Streaming Plasma (with J. Gaffey and W. B. Thompson). *J. Plasma Phys.* 7, 189 (1972).
17. Instability of a Large Amplitude Plasma Wave Due to Inverted Trapped Particle Population. *J. Plasma Phys.* 8, 169 (1972).
18. Current-Driven Drift Wave Instability in a Sheared Magnetic Field (with M. N. Rosenbluth). *Phys. Fluids* 15, 1801 (1972).
19. Electron Temperature Gradient Instability and Anomalous Skin Effect in Tokamaks (with M. N. Rosenbluth and C. W. Horton, Jr.). *Phys. Rev. Lett.* 29, 1489 (1972).
20. Wave Influence on Cross Field Diffusion (with M. N. Rosenbluth), Fifth European Conf. on Controlled Fusion and Plasma Physics (1972).
21. Neoclassical Diffusion in Axisymmetric Torus in the "Intermediate Region" (with D. K. Bhadra and T. Ohkawa). *Phys. Fluids* 15, 1338 (1972).
22. Plasma Diffusion Across a Magnetic Field Due to Thermal Vortices (with Y. C. Lee). *Phys. Rev. Lett.* 30, 361 (1973).
23. Excitation of Plasma Waves by Two Laser Beams (with M. N. Rosenbluth). *Phys. Rev. Lett.* 29, 701 (1972).
24. Parametric Decay of Obliquely Incident Radiation (with R. B. White and M. N. Rosenbluth). *Phys. Rev. Lett.* 31, 520 (1973).
25. Parallel Velocity Shear Instabilities in an Inhomogeneous Plasma with a Sheared Magnetic Field (with P. J. Catto and M. N. Rosenbluth). *Phys. Fluids* 16, 1719 (1973).
26. Three-Dimensional Plasma Diffusion in Very Strong Magnetic Field (with D. Montgomery and G. Vahala). *Phys. Fluids* 15, 815 (1972).
27. Temporal Evolution of Three Wave Parametric Instability (with R. White and M. N. Rosenbluth). *Phys. Rev. Lett.* 31, 1190 (1973).
28. Parametric Scattering Instabilities in Inhomogeneous Plasmas (with M. N. Rosenbluth and R. White). *Phys. Rev. Lett.* 31, 697 (1973).
29. Raman and Brillouin Scattering in Inhomogeneous Plasmas (with M. N. Rosenbluth and R. White). (*Phys. Fluids* 17, 1211, 1974).
30. Langmuir Wave Turbulence - Collapse and Condensation (with K. Nishikawa and Y. C. Lee). *Comments on Plasma Physics and Controlled Fusion* 2, 65 (1975).

31. Electromagnetic Instability of the Ordinary Mode with Computer-Streaming Ions of Anisotropy Temperature (with J. Gaffey and W. E. Thompson). *J. Plasma Phys.* 9, 17 (1973).
32. Self-Focusing and Filamentation of Laser Beams (with H. Chen, Y. C. Lee, and K. Nishikawa). *Proc. 5th International Conference on Plasma Physics and Controlled Fusion* (1974).
33. Backlund Transformation of Modified Korteweg-deVries Equation (with H. Chen). *Institute for Advanced Study Report C00-3237-37* (1974).
34. Instability of a Finite-B Inhomogeneous Plasma in a Sheared Magnetic Field (with A. El-Nadi, P. Catto, and M. N. Rosenbluth). *Nucl. Fusion* 14, 405 (1974).
35. Parametric Instability of Electromagnetic Waves in Plasmas (with J. Drake, et al.) *Phys. Fluids* 17, 776 (1974).
36. Raman and Brillouin Side Scattering from Spherical Inhomogeneous Plasma (with M. N. Rosenbluth and R. White). *Proc. 5th IAEA International Conference on Plasma Physics and Controlled Fusion* (1974).
37. Two-Energy-Component Toroidal Fusion Devices (with H. P. Furth et al.). *Proc. 5th Conference on Plasma Physics and Controlled Nuclear Fusion Research*, 1974).
38. General Formalism of Parametric Processes in Plasmas (with K. Nishikawa). *Advance of Plasma Physics*, Vol. 6, ed. by A. Simon and W. B. Thompson, Wiley, 1975.
39. Parametric Instabilities in Inhomogeneous Plasmas, *Advance of Plasma Physics*, Vol. 6, ed. by A. Simon and W. B. Thompson, Wiley, 1975.
40. Parametric Instabilities in Inhomogeneous Plasmas, *Advance of Plasma Physics*, Vol. 6, ed. by A. Simon and W. B. Thompson, Wiley, 1975.
41. Parametric Decay of Electromagnetic Waves into Two Plasmons and Its Consequences (with M. N. Rosenbluth). *Phys. Fluids* 19, 967 (1976).
42. Cross Field Energy Transport by Plasma Waves (with M. N. Rosenbluth). *Phys. Fluids* 19, 815 (1976).
43. Finite-b and Resonant Electron Effects on Trapped Electron Instabilities (with Tang et al.). *Nucl. Fusion* 16, 191 (1976).
44. Explosive Instability of Drift Cone Modes in Mirror Machines (with Aamodt). *Phys. Rev. Lett.* 36, 95 (1976).

45. Backlund Transformation Solutions of the Toda Lattice Equation (with H. H. Chen). *J. Math. Phys.* 16, 1428 (1975).
46. Dissipative University Instabilities Due to Trapped Particles in Toroidal Systems (with M. N. Rosenbluth and W. M. Tang). *Phys. Fluids* 19, 1040 (1976).
47. Solitons, in Nonuniform Media (with H. H. Chen). *Phys. Rev. Lett.* 37, 693 (1976).
48. Nonlinear Evolution of Runaway-Electron Distribution and Time-Dependent Cyclotron Emission from Tokamak (with Y. Mok). *Phys. Rev. Lett.* 38, 338 (1977).
49. Upper Hybrid Resonance Absorption of Laser Radiation in a Magnetized Plasma (with C. Grebogi and V. K. Tripathi). *Phys. Rev. Lett.* 39, 338 (1977).
50. Nonlinear Dynamics of Runaway Electrons and Their Interaction with Tokamak (with Y. C. Mok, K. Papadopoulos, F. Engelmann and M. Bonatici). *Phys. Rev. Lett.* 39, 701 (1977).
51. Unified Formalism of Lower Hybrid Parametric Instabilities in Plasmas (with V. K. Tripathi and C. Grebogi). *Phys. Fluids* 9, 1525 (1977).
52. Soliton Generation at Resonance and Density Modification in Laser-Irradiated Plasmas (with H. H. Chen). *Phys. Rev. Lett.* 39, 881 (1977).
53. Soliton Formation and Saturation of Decay Instabilities of Electromagnetic Waves into Two Plasmons (with H. H. Chen). *Phys. Rev. Lett.* 39, 881 (1977).
54. Nonlinear Dynamics of Drift-Cyclotron Instabilities (with R. E. Aamodt, Y. C. Lee, and M. N. Rosenbluth). *Phys. Rev. Lett.* 39, 1660 (1977).
55. Kinetic Theory of the Internal $m=1$ Resistive Modes (with J. Drake, Y. C. Lee, et al.). *Nucl. Fusion* (1978).
56. Langmuir Solitons and Resonance Absorption in Laser-Irradiated Plasmas (with H. H. Chen). *Proc. 1976 Nobel Symposium on Nonlinear Plasma Physics* (Lerum, Sweden, 1976).
57. Influence of Stray Inhomogeneities and Magnetic Shear on Microstability Properties of Tormac Sheath, *Phys Fluids* 20, 1870 (1977).
58. Kinetic and Numerical Studies of Microinstability and Anomalous Transport in Theta Pinches (with Davidson, et al.). In Plasma Physics and Controlled Nuclear Fusion Research, Vol. III, 113 (IAEA-CN 35/E15, Vienna, 1977).

59. Synchrotron Emission from Tokamak Plasmas (with Boyd et al.). In Plasma Physics and Controlled Nuclear Fusion Research, Vol. I, 399 (1977).
60. Nonlinear Wave and Soliton Propagation in Media with Arbitrary Inhomogeneities (with H. H. Chen). Phys. Fluids 21, (1978).
61. Electrons of High Perpendicular Energy in the Low-Density Regime of Tokamaks (with M. Bornatici, F. Engelman, Y. Mok, and K. Papadopoulos). Proceedings of the Workshop, Varenna, Italy, 12-16 Sept. (1977).
62. The Internal $m=1$ Resistive Mode in High Temperature Plasma (with J. F. Drake, Y. C. Lee, L. Chen, P. H. Rutherford, P. K. Kaw, and J. Y. Hsu). Nucl. Fusion Lett. 18, 11 (1978) pp. 1583.
63. Parametric Decay of Lower Hybrid Waves in a Plasma: Effect of Ion Nonlinearity (with V. K. Tripathi and C. Grebogi). Phys. Fluids 22, 301 (1979).
64. Warm Plasma Effects on Drift Cyclotron Loss Cone Mode (with P. H. Ng and N. T. Gladd). Phys. Fluids 22, 1141 (1979).
65. Current Driven Drift Modes in Sheared Magnetic Field (with N. T. Gladd). Phys. Fluids 22, 1289 (1979).
66. Oscillating Two-Stream Instability of Ion Cyclotron Waves (with V. K. Tripathi). Phys. Fluids 22, 1761 (1979).
67. Nonlinear Stabilization of the Ion-Beam-Cyclotron Instability (with J. R. Myra). Phys. Rev. Lett. 43, 914 (1979).
68. Filamentation Instability of Electron and Positron Colliding Beams in Storage Ring (with H. S. Uhm). Phys. Rev. Lett. 43, 914 (1979).
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70. Nonlinear Development of an Electromagnetic Filamentation Instability (with David Montgomery). Phys. Fluids 22, 866 (1979).
71. Guiding Center Plasma with Gravitational or Gradient Drifts (with Glenn Joyce and David Montgomery). Phys. Fluids 23, 82 (1980).
72. Stability of Temperature Gradient Drift-Wave Eigenmodes in Sheared Magnetic Fields (with C. L. Chang). Phys. Fluids 23, 227 (1980).
73. Brillouin and Raman Scattering of an Extraordinary Mode in a Magnetized Plasma (with C. Grebogi). Phys. Fluids 23(7) 1330 (1980).

74. Stabilization of the Current-Driven Electrostatic Ion-Cyclotron Instability by Lower-Hybrid Waves (with N. S. Wolf, R. Majeski, H. Lashinsky, V. K. Tripathi), *Phys. Rev. Lett.* 45 (1980).
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77. Electron Temperature Gradient Microtearing Mode (with N. Gladd, J. F. Drake, C. L. Chang), *Phys. Fluids* 23, 1182 (1980).
78. Self-modulation of Ion Bernstein Waves (with J. R. Myra). *Phys. Fluids* 23, 2258 (1980).
79. Unstable Dissipative Drift Modes in a Sheared Magnetic Field (with C. L. Chang, J. F. Drake, N. T. Gladd). *Phys. Fluids* 23, 1998 (1980).
80. Parametric Decay of Extraordinary Electromagnetic Waves into Two Upper Hybrid Plasmons (with C. Grebogi). *J. Plasma Physics* 23, 147 (1980).
81. Convective Cell Formation and Anomalous Diffusion due to Electromagnetic Drift Wave Turbulence (with J. Weiland, H. Sanuki). *Phys. Fluids* 24, 55 (1981).
82. Optical Ray Tracing of Brillouin Backscatter from a Nonisothermal Plasma (with R. H. Lehnberg, V. K. Tripathi). *Phys. Fluids* 24, 703 (1981).
83. Tilting Instability of a Cylindrical Spheromak (with A. Bondeson, G. Marklin, Z. G. An, H. H. Chen, Y. C. Lee), *Phys. Fluids* 24, 1682 (1981).
84. Relativistic Effects on Strong Langmuir Turbulence (with H. P. Freund, R. M. Kulsrud), *J. Plasma Physics*, vol. 25, part 3, pp. 465-477 (1981).
85. Nonlinear Evolution of Drift Cyclotron Modes (with R. E. Aamodt, B. I. Cohen, Y. C. Lee, D. R. Nicholson, M. N. Rosenbluth), *Phys. Fluids* 24(1) (1981).
86. Enhanced Runaway Production by Waves in Plasmas (with Z. G. An, D. A. Boyd, Y. C. Lee, L. Muschietti, K. Appert, J. Vaclavik), *Comments on Plasma Phys. and Controlled Fusion*, 7(1), 21-28 (1982).
87. Convective Cell Turbulence and Anomalous Plasma Diffusion (with P. F. Shukla, K. H. Spatschek, M. Y. Yu), *Phys. Lett.* vol. 90A, no. 4 (1982).

88. Wave Enhancement of Electron Runaway Rate in a Collisional Plasma (with Z. G. An, Y. C. Lee, D. A. Boyd), *Phys. Fluids* 25(6) (1982).
89. Theory of Current Drive with Lower Hybrid Waves (with V. S. Chan), *Physics Scripta*, T2/1, 158-160 (1982).
90. Theory of Runaway-Current Sustainment by Lower-Hybrid Waves (with V. S. Chan, D. K. Bhadra, R. W. Harvey), *Phys. Rev. Lett.* 48(21) (1982).
91. Electromagnetic Oscillating Two-Stream Instability of Plasma Waves (with V. K. Tripathi), *Phys. Fluids* 25(4) (1982).
92. Laboratory Plasma Processes of Astrophysical Interest, University of Maryland Symposium on Plasma Astrophysics (1983).
93. Erratum to Wave Enhancement of Electron Runaway Rate in a Collisional Plasma [*Phys. Fluids* 25, 997 (1982)] (with Z. G. An, Y. C. Lee, D. A. Boyd, L. Muschietti, K. Appert, I. Vaclavik), *Phys. Fluids* 26(1), 345 (1983).
94. Reply to the Comments of B. K. Shivamoggi (with Y. Y. Lau), *Phys. Fluids* 26(3), 868 (1983).
95. Nonlinear Theory of Lower Hybrid Current Drive at Low Densities (with V. S. Chan, F. McClain, M. Rosenberg), *Proc. 5th Topical Conference on Radio Frequency Plasma Heating, Madison, WI* (1983).
96. Nonlinear Theory of Lower Hybrid Drive - a Two-Dimensional Fokker-Planck Study (with V. S. Chan, F. McClain), *Proc. of IAEA Technical Committee Meeting on Noninductive Current Drive in Tokamaks, Culham, England* (1983).
97. Electromagnetic Oscillating Two-Stream Instability Near the Electron Cyclotron Frequency in a Plasma (with V. K. Tripathi, S. T. Tsai), *Phys. Fluids* 27(1), 170-4 (1984).
98. Parametric Instabilities Near the Ion-Cyclotron Frequency in an Inhomogeneous Plasma (with O. P. Sharma, V. Tripathi), *Phys. Fluids* 27(5), 1160-8 (1984).
99. Density Threshold for Parametric Instability of Lower-Hybrid Waves in Tokamaks (with V. K. Tripathi, V. S. Chan, V. Stefan), *Phys. Fluids* 27(7), 1709-17 (1984).
100. Nonlinear Theory of Lower Hybrid Current Drive II in Heating in Toroidal Plasmas. *Proc. 4th Int. Symposium* (with V. S. Chan, F. McClain) (1984).
101. A Simple Model for Lower Hybrid Current Drive in Tokamaks (with P. L. Andrews, V. S. Chan), *Phys. Fluids* 28, 1148 (1985).

102. Nonlinear Ion Heating in Lower Hybrid Current Drive (with V. S. Chan) *Fusion Techn*, 7, 288 (1985).
103. Inductance Effect of Runaways on Lower-Hybrid-Current Ramping, (with V. S. Chan and Y. C. Lee), *Phys. Rev. Lett.* 55, 2583-2586, 1985.
104. Physics of the H-mode (with F. L. Hinton et al.) in Plasma Physics and Controlled Nuclear Fusion Research (Proceedings of the Tenth International Conference on), held in London, 1984. Published by International Atomic Energy Agency, 1985, pp. 3-11.
105. Laboratory Plasma Processes of Astrophysical Interest, In: Unstable Current Systems and Plasma Instabilities in Astrophysics, M. R. Kundu and G. D. Holman, eds. Koninklijke Wobrmann, BV, 1985, pp. 447-452.
106. Hot Electron Ring Formation in Tokamak Plasmas (with J. Y. Hsu, R. Prater, S. H. Lin), *Phys. Fluids*, 29, 507-511, (1986).
107. Kinetic Theory of Stabilization of the Interchange Mode by Ion Bernstein Waves (with V. K. Tripathi and S. C. Chiu), *Nuclear Fusion* 26, 963-966 (1986).
108. Parametric Instabilities in a Magnetized Plasma (with V. K. Tripathi) *Physics Reports*, 130, 143-216, 1986.
109. Tentative Interpretation of some Results on Parametric Instability in ICRF Heating of TFR, (with V. K. Tripathi), *Nuclear Fusion*, 26, 963-966, 1986.
110. Runaway Effects on Lower Hybrid Current Ramp-Up, (with V. S. Chan and Y. C. Lee), *Proceedings of 13th European Conference on Controlled Fusion and Plasma Heating*, held April 14-18, 1986, Schillersee, F.R.G.
111. Consequence of Filamentation on Stimulated Raman Scattering, (with V. K. Tripathi) *Physics of Fluids*, 29, 4188-4191 (1986).
112. A Model for Thermal Transport in Tokamaks, (with P. N. Guzdar, J. Q. Dong and Y. C. Lee), *Phys. Rev. Lett.*, 57, 2818-2821 (1986).
113. Collisionless Electron Temperature Gradient Instability, (with Y. C. Lee, J. Q. Dong and P. N. Guzdar) *Physics of Fluids*, 30, 1331-1339, 1987.
114. Kinetic Theory of Stabilization of the Interchange Mode by Ion Bernstein Waves, (with V. K. Tripathi and S. C. Chiu), *Nuclear Fusion*, 27, 287-297, 1987.
115. Explosive FEL Instability with an Electromagnetic Wiggler, (with V. K. Tripathi), *Physics Letters A*, 132, 47-50, 1988.

116. Thermal Equilibria of Detached Plasmas and Density Limits (with P. N. Guzdar and J. Q. Dong), *Nuclear Fusion*, 28, 1797-1799, 1988.
117. Temperature Gradient Modes, Streamers, and Anomalous Transport (with T. Antonsen, A. M. Dimits, J. Q. Dong, J. F. Drake, P. N. Guzdar, and A. B. Hassam), *Proceedings of 12th Int. Conference on Plasma Physics and Controlled Nuclear Fusion Research*, held in Nice, France, October 1988.
118. Sideband Excitation in an Electromagnetic Wiggler Pumped Free Electron Laser, (with V.K. Tripathi), *Physics of Fluids*, 31, 3799-3803, 1988.
119. Radiation Guiding in Free Electron Laser, (with Y. H. Seo and V. K. Tripathi), *Physics of Fluids*, B 1, 221-229, 1989.
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121. Auxiliary Heated Detached Plasma in Tokamaks, (with P. N. Guzdar), *Physics of Fluids*, B 2, 324-328, 1990.
122. Plasma Effects in a Free Electron Laser, (with V. K. Tripathi), *IEEE Trans. Plasma Science*, 18, 3, 466-471, 1990.
123. Transition from Solution to Chaos in Nonlinear Inhomogeneous Media with External Driving, (with W. Shyu, P. N. Guzdar, H. H. Chen and Y. C. Lee), *Physics Letters A*, 147, 1, 49-53, 1990.
124. The Effect of Induced Spatial Incoherence on the Absolute Raman Instability, (with P. N. Guzdar, W. Tan, Y. C. Lee and R. H. Lehmberg), *Physics Fluids B* 3, (3), 776-780, 1991.
125. Stimulated Raman Backscattering in Laser Wakefield and Beatwave Accelerators, (with V. K. Tripathi), *Physics of Fluids*, B 3, (2), 468-470, 1991.
126. Oscillating Two-Stream Instability of a Random Phase Pump in a Plasma, (with V. K. Tripathi), *Physics of Fluids*, 1991.
127. O-Mode Decay and Upshifted Electromagnetic Emissions Near Cyclotron Harmonics in the Ionosphere, (with V. K. Tripathi), *J. of Geophysical Research*, 1991.
128. The Effect of Bandwidth on the Convective Raman Instability in Inhomogeneous Plasmas, (with P. N. Guzdar, and Lehmberg), *Physics of Fluids*, 3, (10) 2882-2888, 1991.

129. Spontaneous Poloidal Spin up of Tokamaks and the transition to H mode with Hassam, Antonsen, Drake, Phys. Rev Lett. 6, 309-312 (1991).

Papers Published Since 1992

1992

1. The 4th European Fusion Theory Conference Report (with Rynton), Plasma Physics & Controlled Fusion, 34, 888-889.
2. Peeling of convection cells and the generation of sheared flow, (with J. Drake, J. Finn, P. N. Guzdar, V. Shapiro, V. Sheuchenko, F. Waelbroeck, A. Hassam, and R. Z. Sagdeev).
3. Loss of Static Equilibrium, Flow Generation and the Development of Turbulence at the Edge of Tokamaks, (with J. F. Drake, A. B. Hassam, and P. N. Guzdar), Nucl. Fusion Lett. 32, 1657.

1993

1. Physics Fluids B Letter Volume 4(3) 488-91 (1992) Induced Spatial incoherence effects on the Connective Raman instability with P.N. Guzdar and R.H. Lehmberg, Physics Fluids B 5 (3) 910-919 (1993).
2. Three dimensional Fluid Simulations of Nonlinear Drift Resistive Ballooning modes in Tokamak edge plasmas, with Guzdar, Drake, McCarthy, Hassam, Phy Fluids B, 5 3712 (1993).
3. Reply to Comment on "Peeling of Convection Cells and the generation of sheared flow, with Drake, et al, Phys. Fluid 5 (2) 658T.
4. Spontaneous and Driven perpendicular rotation in Tokamaks with Hassam, Drake, Antonsen, Guzdar, McCarthy, and Waelbroeck, Phys Fluids B 5 (7) 2519 - 24.

1994

1. Self-generated magnetic field in an amplitude modulated laser filament in a plasma, with V.K. Tripathi Phys Plasmas, Vol 1 No 12, 1(4) 990-2 (1994).

1995

1. New unstable branch of drift resistive ballooning modes in Tokamaks, with S.V. Novakovskii, P.N. Guzdar, J.F. Drake, and F. L. Waelbroeck; 2(3), 781-91, Phys. Plasmas, Vol. 2, No. 12 (1995).
2. Thermal effects on coupled self-focusing and Raman scattering of a laser in a self-consistent plasma channel, with V.K. Tripathi,; 2(8), 3111-4, Phys. Plasmas Vol 2 (1995).
3. Neoclassical rotation of tokamak plasmas in the plateau regime, with S.V. Novakovskii, A.A. Galeev, R.Z. Sagdeev, and A. B. Hassam, 2(10), 3566-8, Phys. Plasmas, Vol 2, No 12 (1995).
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1996

1. Physical mechanism of enhanced stability from negative shear in tokamaks; Implications for edge transport and the L-H transition, with T.M. Antonsen Jr., J.F. Drake, P.N. Guzdar, A.B. Hassam, Y.T. Lau, and S.V. Novakovskii, 3(6) 2221-3(L), Phys Plasmas, Vol 3, No 12 (1996).
2. Simulated Raman scattering in a plastic channel, with V.K. Tripathi, 3(9), 3410-3, Phys. Plasmas, Vol 3, No 12 (1996).
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