A. Farhat, E. Lunasin and E.S. Titi, *Data Assimilation algorithm for 3D Bénard convection in porous media employing only temperature measurements*, (submitted). arXiv:1506.08678[math.AP].

A. Larios and E.S. Titi, *A blow-Up criterion for the 3D Euler equations via the Euler-Voigt inviscid regularization*, (submitted). arXiv:1507.08203[math.AP]

J. Li and E.S. Titi, *A tropical atmosphere model with moisture: global well-posedness and relaxation limit*, (submitted). 1507.05231[math.AP]

E. Lunasin and E.S. Titi, *Finite determining parameters feedback control for distributed nonlinear dissipative systems - a computational study*, (submitted). arXiv:1506.03709[math.AP]


J. Li and E.S. Titi, *Global well-posedness of strong solutions to a tropical climate model*, Continuous and Discrete Dynamical Systems, (submitted). (An invited article for a special issue in honor of Professor Peter Lax on the occasion of his 90th birthday). arXiv:1504.05285[math.AP]


C. Cao, S. Chen and E.S. Titi, *A turbulence model for the 1D dispersive wave*, (Preprint).

ACCEPTED PAPERS TO APPEAR


PAPERS APPEARED IN PROCEEDINGS


5. C. Cao and E.S. Titi, *Asymptotic behavior of viscous 1-D scalar conservation laws with Neumann boundary conditions*, Third Palestinian Mathematics Conference, Bethlehem University, West Bank, Mathematics & Mathematics Education, S. Elaydi, E.S. Titi, M. Saleh, S.K. Jain and R. Abu Saris, editors, World Scientific, 2002.


PAPERS PUBLISHED IN JOURNALS


155. C. Cao, J. Li and E.S. Titi, *Global well-posedness of strong solutions to the 3D primitive equations with horizontal eddy diffusivity*, Journal of Differential Equations, **257** (2014), 4108-4132. arXiv:1401.1234

154. C. Cao, A. Farhat and E.S. Titi, *Global regularity for an inviscid three-dimensional slow limiting ocean dynamics model*, Communications in Information and Systems (CIS), **13(1)** (2013), 97-122. (An invited article for a special issue in honor of Professor Marshall Slemrod on the occasion of his 70th birthday). arXiv:1311.6064[Math.AP]


150. C. Foias, M. Jolly, R. Kravchenko and E.S. Titi, *A unified approach to determining forms for the 2D Navier-Stokes equations - the general interpolants case*, Uspekhi Matematicheskikh Nauk, **69(2)** (2014) 177-200; also Russian Mathematical Surveys,


146. A. Larios, E. Lunasin and E.S. Titi, Global well-posedness for the 2D Boussinesq system with anisotropic viscosity and without heat diffusion, Journal of Differential Equations, 255 (2013), 2636-2654.

145. C. Cao, S. Ibrahim, K. Nakanishi and E.S. Titi, Finite-time blowup for the inviscid primitive equations of oceanic and atmospheric dynamic, Communications in Mathematical Physics, 337 (2015), 473-482. DOI: 10.1007/s00220-015-2365-1. arXiv:1210.7337

144. J. Lowengrub, E.S. Titi and K. Zhao, Analysis of a mixture model of tumor growth, European Journal of Applied Mathematics, 24 (2013), 691-734.

143. C. Bardos, M. Lopes Filho, D. Niu, H. Nussenzveig Lopes and E.S. Titi, Stability of viscous, and instability of non-viscous, 2D weak solutions of incompressible fluids under 3D perturbations, SIAM, Journal on Mathematical Analysis, 45(3) (2013), 1871-1885.

142. L. Biferale and E.S. Titi, On the global regularity of a helical-decimated version of the 3D Navier-Stokes equations, Journal of Statistical Physics, 151 (2013), 1089-1098.


140. C. Bardos and E.S. Titi, Mathematics and turbulence: where do we stand? Journal of Turbulence, 14(3) (2013), 42-76.


138. C. Foias, M. Jolly, R. Kravchenko and E.S. Titi, A determining form for the 2D Navier-Stokes equations - the Fourier modes case, Journal of Mathematical Physics, 53
137. C.R. Doering, I. Kukavica and E.S. Titi, *Introduction to special issue: incompressible fluids, turbulence and mixing*, Journal of Mathematical Physics, **53** (2012), 115501.

136. C. Cao, A. Farhat and E.S. Titi, *Global well-posedness of an inviscid three-dimensional pseudo-Hasegawa-Mima model*, Communications in Mathematical Physics, **319**(1) (2013), 195-229.


134. A. Farhat, L. Panetta, E.S. Titi and M.B. Ziane, *Long-time behavior of a two-layer model of baroclinic quasi-geostrophic turbulence*, Journal of Mathematical Physics, **53** (2012), 115603. (An invite article for a special issue in honor of Professor P. Constantin on the occasion of his 60th birthday).

133. C. Cao and E.S. Titi, *Global well-posedness of the 3D primitive equations with partial vertical turbulence mixing heat diffusion*, Communications in Mathematical Physics, **310** (2012), 537-568. arXiv-1010.5286[Math.AP]

132. K. Hayden, E. Olson and E.S. Titi, *Discrete data assimilation in the Lorenz and 2D Navier–Stokes equations*, Physica D, **240** (2011), 1416-1425.

131. Z. Artstein, C.W. Gear, I.G. Kevrekidis, M. Slemrod and E.S. Titi, *Analysis and computation of a discrete KdV-Burgers type equation with fast dispersion and slow diffusion*, SIAM Journal on Numerical Analysis, **49**(5) (2011), 2124-2143.

130. A.V. Babin, A.A. Ilyin, and E.S. Titi, *On the regularization mechanism for the spatially periodic Korteweg-de Vries equation*, Communications in Pure and Applied Mathematics, **64** (2011), 591-648.

129. C. Cao and E.S. Titi, *Global regularity criterion for the 3D Navier-Stokes equations involving one entry of the velocity gradient tensor*, Archive of Rational Mechanics & Analysis, **202** (2011), 919-932.

128. H. Bessaih, F. Flandoli and E.S. Titi, *Stochastic attractors for shell phenomenological models of turbulence*, Journal of Statistical Physics, **140** (2010), 688-717.
127. F. Ramos and E.S. Titi, *Invariant measures for the 3D Navier-Stokes-Voigt equations and their Navier-Stokes limit*, Discrete and Continuous Dynamical Systems, **28**(1) (2010), 375-403. (An invite article for a special issue in honor of Professor R. Temam on the occasion of his 70th birthday).

126. A. Larios and E.S. Titi, *On the higher-order global regularity of the inviscid Voigt-regularization of three-dimensional hydrodynamic models*, Discrete and Continuous Dynamical Systems, **14**(2) (2010), 603-627. (An invite article for a special issue in honor of Professor P. Kloeden on the occasion of his 60th birthday).

125. J. Linshiz and E.S. Titi, *On the convergence rate of the Euler-α, inviscid second-grade fluid, model to the Euler equations*, Journal of Statistical Physics, **138**(1) (2010), 305-332.

124. C. Bardos and E.S. Titi, *Loss of smoothness and energy conserving rough weak solutions for the 3d Euler equations*, Discrete and Continuous Dynamical Systems, Series S, **3**(2) (2010), 185-197. (An invite article for a special issue on honor of Professor V. Solonnikov in the occasion of his 75th birthday).

123. Y. Cao and E.S. Titi, *On the rate of convergence of the two-dimensional α-models of turbulence to the Navier-Stokes equations*, Numerical Functional Analysis and Optimization, **30**(11&12) (2009), 1231-1271.

122. C. Bardos, J. Linshiz and E.S. Titi, *Global regularity and convergence of a Birkhoff-Rott-α approximation of the dynamics of vortex sheets of the 2D Euler equations*, Communications in Pure and Applied Mathematics, **63**(6) (2010), 697-746.

121. V.K. Kalantarov and E.S. Titi, *Global attractors and determining modes for the 3D Navier-Stokes-Voight equations*, Chinese Annals of Mathematics, Series B, **30**(6) (2009), 697-714. (An invited article for a special issue in honor of Professor A. Majda on the occasion of his 60th birthday).

120. C. Bardos, U. Frisch, W. Pauls, S.S. Ray, and E.S. Titi, *Entire solutions of hydrodynamical equations with exponential dissipation*, Communications in Mathematical Physics, **293** (2010), 519-543.

119. B. Levant, F. Ramos and E.S. Titi, *On the statistical properties of the 3D incompressible Navier-Stokes-Voigt model*, Communications in Mathematical Sciences, **8**(1) (2010), 277-293. (An invite article for a special issue in honor of Professor A. Majda in the occasion of his 60th birthday).

118. A.-C. Bennis, R. Lewandowski and E.S. Titi, *Simulations de l'écoulement turbulent marin avec un modèle de déconvolution*, Comptes Rendus De L'Académie Des Sciences, Paris, Série I, **347** (2009), 445-450.
117. Y. Cao, Z.H. Musslimani and E.S. Titi, *Modulation theory for self-focusing in the nonlinear Schrödinger-Helmholtz equation*, Numerical Functional Analysis and Optimization, **30** (2009), 46-69.


115. V.K. Kalantarov, B. Levant and E.S. Titi, *Gevrey regularity of the global attractor of the 3D Navier-Stokes-Voight equations*, Journal of Nonlinear Science, **19** (2009), 133-152.

114. C. Cao and E.S. Titi, *Regularity criteria for the three-dimensional Navier-Stokes equations*, Indiana University Mathematics Journal, **57**(6) (2008), 2643-2662. (An invite article for a special issue in honor of Professor C. Foias in the occasion of his 75th birthday).

113. E. Olson and E.S. Titi, *Determining modes and Grashof number in 2D turbulence – A numerical case study*, Theoretical and Computational Fluid Dynamics, **22**(5) (2008), 327-339.

112. B.J. Geurts, A. Kuczaj and E.S. Titi, *Regularization modeling for large-eddy simulation of homogeneous isotropic decaying turbulence*, Journal of Physics A, **41** (2008), 344008 (29pp). (An invite article for a special issue in honor of Professor D.D. Holm in the occasion of his 60th birthday).

111. Y. Cao, Z.H. Musslimani and E.S. Titi, *Nonlinear Schrödinger-Helmholtz equation as numerical regularization of the nonlinear Schrödinger equation*, Nonlinearity, **21** (2008), 879-898.

110. E. Lunasin, S. Kurien and E.S. Titi, *Spectral scaling of α-models for two-dimensional turbulence*, Journal of Physics A, **41** (2008), 344014 (10pp). (An invite article for a special issue in honor of Professor D.D. Holm in the occasion of his 60th birthday).

109. G. Katriel, R. Kupferman and E.S. Titi, *Long-time limit for a class of quadratic infinite-dimensional dynamical systems inspired by models of viscoelastic fluids*, Journal of Differential Equations, **245** (2008), 2771-2784.

108. C. Bardos, J. Linshiz and E.S. Titi, *Global regularity for a Birkhoff-Rott-a approximation of the dynamics of vortex sheets of the 2D Euler equations, Invited article in the occasion of 250 years for the Euler Equations*, Physica D, **237** (2008) 1905-1911. An invited article for a special issue in the occasion of 250 years for the Euler Equations.
107. Z. Artstein, J. Linshiz and E.S. Titi, *Young measure approach to computing slowly advancing fast oscillations*, SIAM, Multiscale Modeling and Simulation, 6(4) (2007), 1085-1097.

106. R. Kupferman, C. Mangoubi and E.S. Titi, *A Beale-Kato-Majda breakdown criterion for an Oldroyd-B fluid in the creeping flow regime*, Communications in Mathematical Sciences, 6(1) (2008), 235-256.

105. Z. Artstein, I.G. Kevrekidis, M. Slemrod and E.S. Titi, *Slow observables of singularly perturbed differential equations*, Nonlinearity, 20 (2007), 2463-2481.

104. V.V. Chepyzhov, E.S. Titi, and M.I. Vishik, *On convergence of trajectory attractors of 3D Navier--Stokes-α model as α approaches 0*, Matematicheskii Sbornik, 198:12 (2007), 3-36.


101. R. Benzi, B. Levant, I. Procaccia and E.S. Titi, *Statistical properties of nonlinear shell models of turbulence from linear advection models: rigorous results*, Nonlinearity, 20(6) (2007), 1431-1443.

100. B. Khouider and E.S. Titi, *An inviscid regularization for the surface quasi-geostrophic equation*, Communications in Pure and Applied Mathematics, 61(10) (2008), 1331-1346.

99. C. Cao, J. Qin and E.S. Titi, *Regularity criterion for solutions of three-dimensional turbulent channel flows*, Communications in Partial Differential Equations, 33(1-3) (2008), 419-428.

98. P. Constantin, B. Levant and E.S. Titi, *Sharp lower bounds for the dimension of the global attractor of the Sabra shell model of turbulence*, Journal of Statistical Physics, 127(6) (2007), 1173-1192.

97. A.A. Ilyin and E.S. Titi, *On the domain of analyticity and small scales for the solutions of the damped-driven 2D Navier-Stokes equations*, Dynamics of Partial Differential Equations, 4(2) (2007), 111-127.

96. P. Constantin, B. Levant and E.S. Titi, *A note on the regularity of inviscid shell model of turbulence*, Physics Review E, 75 (2007), 016304.
95. Y. Cao, E.M. Lunasin and E.S. Titi, Global well-posedness of three-dimensional viscous and inviscid simplified Bardina turbulence models, Communications in Mathematical Sciences, 4(4) (2006), 823-84.

94. P. Constantin, C. Fefferman, E.S. Titi and A. Zarnescu, Regularity of coupled two-dimensional Nonlinear Fokker-Planck and Navier-Stokes Systems, Communications in Mathematical Physics, 270(3) (2007), 789-812.

93. J. Linshiz and E.S. Titi, Analytical study of certain magnetohydrodynamics-a models, Journal of Mathematical Physics, 48 (2007), 065504.

92. S.I. Chernyshenko, P. Constantin, J.C. Robinson and E.S. Titi, A posteriori regularity of the three-dimensional Navier-Stokes equations from numerical computations, Journal of Mathematical Physics, 48 (2007), 065204.

91. Y. Cao and E.S. Titi, Trivial stationary solutions to the Kuramoto-Sivashinsky and certain nonlinear elliptic equations, Journal of Differential Equations, 231 (2006), 755-767.

90. A.A. Ilyin and E.S. Titi, The damped-driven 2D Navier-Stokes system on large elongated domains, Journal of Mathematical Fluid Mechanics, 10(2) (2007), 159-175.

89. V.V. Chepyzhov, E.S. Titi, and M.I. Vishik, On the convergence of solutions of the Leray-α model to the trajectory attractor of the 3D Navier-Stokes system, Journal of Discrete and Continuous Dynamical Systems - Serie A, 17(3) (2007), 33-52.

88. P. Constantin, B. Levant, E.S. Titi, Analytic study of shell models of turbulence, Physica D, 219(2) (2006), 120-141.

87. E. Olson and E.S. Titi, Viscosity versus vorticity stretching: global well-posedness for a family of the Navier-Stokes alpha-like models, Nonlinear Analysis Series A: Theory Methods, 66(11) (2007), 2427-2458.

86. A.A. Ilyin, E.M. Lunasin and E.S. Titi, A modified-Leray-α sub-grid scale model of turbulence, Nonlinearity, 19 (2006), 879-897.

85. C. Cao and E.S. Titi, Global well-posedness of the three-dimensional viscous primitive equations of large scale ocean and atmosphere dynamics, Annals of Mathematics, 166(1) (2007), 245-267.

84. A.A. Ilyin and E.S. Titi, Sharp estimates for the number of degrees of freedom for the damped-driven 2D Navier-Stokes equations, Journal of Nonlinear Science, 16(3) (2006), 233-253.

83. D. Holm and E.S. Titi, Computational models of Turbulence: The LANS-α model and the role of global analysis, Feature Article: SIAM News, 38(7), September 2005.
82. J.D. Gibbon and E.S. Titi, *Cluster formation in complex multi-scale systems*, Royal Society London, Proceedings, Series A, Mathematical, Physical & Engineering Sciences, **461** (2005), 3089-3097.

80. P. Constantin, E. S. Titi and J. Vukadinovic, *Dissipativity and Gevrey regularity of a Smoluchowski equation*, Indiana University Mathematics Journal, **54(4)** (2005), 949-970.

79. A. Ilyin, A. Miranville and E. S. Titi, *Small viscosity sharp estimates for the global attractor of the 2-D damped-driven Navier---Stokes equations*, Communications in Mathematical Sciences, **2(3)** (2004), 403-426.


77. C. Cao, E.S. Titi and M. Ziane, *A “horizontal” hyper--diffusion 3-D thermocline planetary geostrophic model: well-posedness and long time behavior*, Nonlinearity, **17** (2004), 1749-1776.

76. M. I. Vishik, E. S. Titi and V.V.Chepyzhov, *Trajectory attractor approximations of the 3D Navier-Stokes system by a Leray-α model*, Russian Mathematical Dokladi (Translated from Russian), **71** (2005), 92-95.

75. P. Constantin, I. G. Kevrekidis and E. S. Titi, *Remarks on a Smoluchowski equation*, Discrete and Continuous Dynamical Systems, **11** (2004), 101-112.

74. C. Cao, D. Holm and E.S. Titi, *Traveling wave solutions for a class of one-dimensional nonlinear shallow water wave models*, Journal of Dynamics and Differential Equations, **16(1)** (2004), 167-178.

73. A.A. Ilyin and E.S. Titi, *Attractors to the two-dimensional Navier-Stokes-α model: An alpha-dependence study*, Journal of Dynamics and Differential Equations, **15** (2003), 751-777.

72. H. Bellout, S. Benachour and E.S. Titi, *Finite-time singularity versus global regularity for hyperviscous Hamilton-Jabcobi-like equations*, Nonlinearity, **16** (2003), 1967-1989.

71. P. Constantin, I. Kevrekidis and E.S. Titi, *Remarks on a Smoluchowski equation*, Discrete and Continuous Dynamical Systems, **11** (2004), 101-112.

70. E. Olson and E.S. Titi, *Determining modes for continuous data assimilation in 2-D turbulence*, Journal of Statistical Physics, **113** (2003), 799-840.
69. L. Margolin, E. S. Titi and S. Wynne, *The postprocessing Galerkin and nonlinear Galerkin methods - a truncation analysis point of view*, SIAM, Journal of Numerical Analysis, **41** (2003), 695-714.

68. Y. Chung and E. S. Titi, *Inertial manifolds and Gevrey regularity for the Moore-Greitzer model of turbo-machine engine*, Journal of Nonlinear Science, **13** (2003), 1-26.

67. C. Cao and E. S. Titi, *Global well-posedness and finite dimensional global attractor for a 3-D planetary geostrophic viscous model*, Communications in Pure and Applied Mathematics, **56** (2003), 198-233.

66. P. G. Kevrekidis, I. G. Kevrekidis, A. R. Bishop and E. S. Titi, *A continuum approach to discreteness*, Physical Review E, **65** (2002), no. 4, 046613.

65. C. Cao, I. Kevrekidis and E. S. Titi, *Numerical criterion for the stabilization of steady states of the Navier-Stokes equations*, Indiana University Mathematics Journal, **50** (2001), 37-96. (A special Issue in Honor of C. Foias and R. Temam).

64. C. Foias, D. Holm and E. S. Titi, *The three-dimensional viscous Camassa-Holm equations and their relation to the Navier-Stokes equations and turbulence theory*, Journal of Dynamics and Differential Equations, **14** (2002), 1-35.

63. C. Foias, I. Kukavica, M. Jolly and E. S. Titi, *The Lorenz equations as a metaphor for the Navier-Stokes equations*, Discrete and Continuous Dynamical Systems, **7** (2001), 403-429.

62. C. Foias, D. Holm and E. S. Titi, *The Navier-Stokes-alpha model of fluid turbulence*, Physica D, **152** (2001), 505-519. (Special Issue in Honor of V. E. Zakharov on the Occasion of His 60th Birthday).

61. M. Oliver and E. S. Titi, *On the domain of spatial analyticity for solutions of second order nonlinear analytic parabolic and elliptic differential equations*, Journal of Differential Equations, **174** (2001), 55-74.

60. J. Novo, E. S. Titi and S. Wynne, *Efficient methods using high accuracy approximate inertial manifolds*, Numerische Mathematik, **87** (2001), 523-554.


58. M. Oliver and E. S. Titi, *Remark on the decay rate of higher order derivatives of solutions to the Navier-Stokes equations in R^n*, Journal of Functional Analysis, **172** (2000), 1-18.
57. M. Oliver and E.S. Titi, *Gevrey regularity for the attractor of a partially dissipative model of Bénard convection in a porous medium*, Journal of Differential Equations, **163** (2000), 292-311.


54. S. Chen, C. Foias, D. Holm, E. Olson, E.S. Titi and S. Wynne, *A connection between Camassa-Holm equations and turbulent flows in channels and pipes*, Physics of Fluids, **11** (1999), 2343-2353.


52. B. García-Archilla and E.S. Titi, *Postprocessing the Galerkin method: The finite elements case*, SIAM, Journal of Numerical Analysis, **37** (2000), 470-499.

51. C. Cao, M. Rammaha and E.S. Titi, *The Navier-Stokes equations on the rotating 2-D sphere: Gevrey regularity and asymptotic degrees of freedom*, Zeitschrift für Angewandte Mathematik und Physik (ZAMP), **50** (1999), 341-360.

50. H. Van Ly and E.S. Titi, *Global Gevrey regularity for 3-D Bénard convection in porous medium with zero Darcy-Prandtl number*, Journal of Nonlinear Science, **9** (1999), 333-362.

49. C. Cao, M. Rammaha and E.S. Titi, *Gevrey regularity for nonlinear analytic parabolic equations on the sphere*, Journal of Dynamics & Differential Equations, **12** (2000), 411-433.

48. B. García-Archilla, J. Novo and E.S. Titi, *An approximate inertial manifolds approach to postprocessing the Galerkin method for the Navier-Stokes equations*, Mathematics of Computation, **68** (1999), 893-911.

47. D. Jones, A. M. Stuart and E.S. Titi, *Persistence of invariant sets for partial differential equations*, Journal of Mathematical Analysis & Applications, **219** (1998), 479-502.

46. M. Oliver and E.S. Titi, *Analyticity of the global attractor and the number of determining nodes for a weakly damped driven nonlinear Schrödinger equation*, Indiana University Mathematics Journal, **47** (1998), 49-73.

44. H. Van Ly, K. Mease and E.S. Titi, *Controlling the viscous Burgers’ equation*, Numerical Functional Analysis and Optimization, **18** (1997), 143-188.

43. A. Ferrari and E.S. Titi, *Gevrey regularity for nonlinear analytic parabolic equations*, Communications in Partial Differential Equations, **23** (1998), 1-16.

42. M.J. Holst and E.S. Titi, *Determining projections and functionals for weak solutions of the Navier-Stokes equations*, Contemporary Mathematics, **204** (1997), 125-138.

41. C.D. Levermore, M. Oliver and E.S. Titi, *Global well-posedness for models of shallow water in a basin with a varying bottom*, Indiana University Mathematics Journal, **45** (1996), 479-510.

40. J. D. Gibbon and E.S. Titi, *Attractor dimension and small length scale estimates for the three-dimensional Navier-Stokes equations*, Nonlinearity, **10** (1997), 109-119.

39. P. Constantin, C.R. Doering and E.S. Titi, *Rigorous estimates of small scales in turbulent flows*, Journal of Mathematical Physics, **37** (1996), 6152-6156.

38. P. Collet and E.S. Titi, *Determining nodes for extended dissipative systems*, Nonlinearity, **9** (1996), 1089-1097.

37. B. Cockburn, D. Jones and E.S. Titi, *Estimating the number of asymptotic degrees of freedom for nonlinear dissipative systems*, Mathematics of Computation, **66** (1997), 1073-1087.

36. C.D. Levermore, M. Oliver and E.S. Titi, *Global well-posedness for the lake equations*, Physica D, **98** (1996), 492-509.


34. B. Cockburn, D. Jones and E.S. Titi, *Degrés de liberté déterminants pour équations nonlinéaires dissipatives*, Determining degrees of freedom for nonlinear dissipative equations, Comptes Rendus De L’Académie Des Sciences, Paris, Série I, **321** (1995), 63-68.

33. D. Jones and E.S. Titi, *C¹ approximating inertial manifolds for dissipative nonlinear equations*, Journal of Differential Equations, **127** (1996), 54-86.

32. C.R. Doering and E.S. Titi, *Exponential decay rate of the power spectrum for
solutions of the Navier-Stokes equations, Physics of Fluids, 7 (1995), 1384-1390.


30. D. Jones, L. Margolin and E.S. Titi, *On the effectiveness of the approximate inertial manifolds - computational study*, Theoretical and Computational Fluid Dynamics, 7 (1995), 243-260.

29. P. Constantin, W. E and E.S. Titi, *Onsager's conjecture on the energy conservation for solutions of Euler's equation*, Communications in Mathematical Physics, 165 (1994), 207--209.

28. Z. Shao and E.S. Titi, *Parameterizing the global attractor of the Navier-Stokes equations by nodal values*, Numerical Functional Analysis and Optimization, 16 (1995), 547-563.

27. C. Foias, M. Jolly, I.G. Kevrekidis and E.S. Titi, *On some dissipative fully discrete nonlinear Galerkin schemes for the Kuramoto-Sivashinsky equation*, Physics Letters A, 186 (1994), 87-96.

26. D. Jones and E.S. Titi, *Upper bounds on the number of determining modes, nodes, and volume elements for the Navier-Stokes equations*, Indiana University Mathematics Journal, 42 (1993), 875-887. (A special issue in honor of Professor C. Foias on the occasion of his 60th Birthday).

25. J. Duan, P. Holmes and E.S. Titi, *Regularity, approximation and asymptotic dynamics for a generalized Ginzburg-Landau equation*, Nonlinearity, 6 (1993), 915-933.

24. G. Ponce, R. Racke, T.C. Sideris and E.S. Titi, *Global stability of large solutions to the 3-D Navier-Stokes equations*, Communications in Mathematical Physics, 159 (1993), 329-341.


22. D. Jones and E.S. Titi, *A remark on quasi-stationary approximate inertial manifolds for the Navier-Stokes equations*, SIAM, Journal on Mathematical Analysis, 25 (1994), 894-914.

20. N. Aubry, W.-Y. Lian and E.S. Titi, *Preserving symmetries in the proper orthogonal decomposition*, SIAM Journal on Scientific and Statistical Computing, **14** (1993), 483-505.

19. J. Duan, P. Holmes and E.S. Titi, *Global existence theory for a generalized Ginzburg-Landau equation*, Nonlinearity, **5** (1992), 1303-1314.

18. C. Devulder, M. Marion and E.S. Titi, *On the rate of convergence of the nonlinear Galerkin methods*, Mathematics of Computation, **60** (1993), 495-514.

17. M. Graham, P. Steen and E.S. Titi, *Computational efficiency and approximate inertial manifolds for a Bénard convection system*, Journal of Nonlinear Science, **3** (1993), 153-167.

16. D. Jones and E.S. Titi, *Determining finite volume elements for the 2-D Navier-Stokes equations*, Physica D, **60** (1992), 165-174.

15. C. Foias, M. Jolly, I.G. Kevrekidis and E.S. Titi, *Dissipativity of numerical schemes*, Nonlinearity, **4** (1991), 591-613.

14. D. Jones and E.S. Titi, *On the number of determining nodes for the 2-D Navier-Stokes equations*, Journal of Mathematical Analysis & Applications, **168** (1992), 72-88.

13. C. Foias and E.S. Titi, *Determining nodes, finite difference schemes and inertial manifolds*, Nonlinearity, **4** (1991), 135-153.


11. M. Jolly, I. Kevrekidis and E.S. Titi, *Preserving dissipation in approximate inertial forms for the Kuramoto-Sivashinsky equation*, Journal of Dynamics and Differential Equations, **3** (1991), 179-197.

10. A. Mahalov, E.S. Titi and S. Leibovich, *Invariant helical subspaces for the Navier-Stokes equations*, Archive of Rational Mechanics & Analysis, **112** (1990), 193-222.

9. M. S. Jolly, and I.G. Kevrekidis and E.S. Titi, Approximate inertial manifolds for the Kuramoto-Sivashinsky equation: Analysis and Computations, Physica D, **44** (1990), 38-60.

8. E.S. Titi, *On approximate inertial manifolds to the Navier-Stokes equations*, Journal of Mathematical Analysis & Applications, **149** (1990), 540-557.


5. C. Foias, G.R. Sell and E.S. Titi, *Exponential tracking and approximation of inertial manifolds for dissipative nonlinear equations*, Journal of Dynamics and Differential Equations, **1** (1989), 199-244.

4. P. Constantin and E.S. Titi, *On the evolution of nearly circular vortex patches*, Communications in Mathematical Physics, **119** (1988), 177-198.

3. V. Barcilon, P. Constantin and E.S. Titi, *Existence of solutions to the Stommel-Charney model of the Gulf Stream*, SIAM Journal on Mathematical Analysis, **19** (1988), 1355-1364.

2. E.S. Titi, *On a criterion for locating stable stationary solutions to the Navier-Stokes equations*, Nonlinear Analysis, Theory, Methods and Applications, **11** (1987), 1085-1102.

1. E.S. Titi, *Estimations uniformes pour la résolvante des opérateurs de Navier-Stokes linearisés*, Comptes Rendus De L’Acad’émie Des Sciences, Paris, Série I, **301** (1985), 723-726.