List of publications of Alessandro Torcini

Papers published in peer reviewed journals :

1) S. Isola, A. Politi, S. Ruffo, A. Torcini, "Lyapunov spectra of coupled map lattices", *Phys. Lett. A*, **143** (1990) p.365

2) A. Torcini, A. Politi, G.P. Puccioni, G. D'Alessandro, "Fractal dimensions of spatially extended systems", *Physica D*, **53** (1991) p. 85

3) A. Politi and A.Torcini " Towards a Statistical Mechanics of SpatioTemporal Chaos" , *Phys. Rev. Lett.*, **69** (1992) p. 3421

4) U. Balucani, A. Torcini, R. Vallauri, "Microscopic Dynamics in Liquid Alkali Metals", *Phys. Rev. A*, **46** (1992) p. 2159

5) A. Politi and A. Torcini, " Periodic orbits in Coupled Henon Maps : Lyapunov and Multifractal Analysis ", *Chaos*, **2** (1992) p. 293

6) U. Balucani, A. Torcini, R. Vallauri, "Liquid Alkali Metals at Melting Point : Structural and Dynamical Properties" , *Phys. Rev. B*, **47** (1993) p. 3011

7) U. Balucani, G. Ruocco, A. Torcini and R. Vallauri, "The fast sound in liquid water", *Phys. Rev. E*, **47** (1993) p. 1677

8) U. Balucani, A. Torcini, R. Vallauri, "Liquid Alkali Metals : Microscopic Dynamics and Transport Coefficients", *J. Non-Cristalline Solids*, **156-158** (1993) p. 43

9) U. Balucani, G. Ruocco, M. Sampoli, A. Torcini, R. Vallauri, "Evolution from Ordinary to Fast Sound in Water at Room Temperature", *Chem. Phys. Lett.*, **209** (1993) p. 408

10) G. Ruocco, M. Sampoli, A. Torcini, R. Vallauri, "Molecular Dynamics Results for Stretched Water", *J. Chem. Phys.*, **99** (1993) p. 8095.

11) A. Politi and A. Torcini, " Linear and Nonlinear Mechanisms of Information Propagation", *Europhys. Lett.*, **28** (1994) p. 545.

12) U. Balucani, G. Ruocco, M. Sampoli, A. Torcini, R. Vallauri, "Longitudinal Collective Modes in Liquid Water", *Nuovo Cimento*, **16D** (1994) p. 817.

13) U. Balucani, A. Torcini, A. Stangl and Chr. Mörkel, "Single-Particle Dynamics in Simple Liquids", *Physica Scripta*, **T57** (1995) p. 13.

14) A. Torcini, U. Balucani, P.H.K. de Jong and P. Verkerk, "Microscopic Dynamics in Liquid Lithium", *Phys. Rev. E*, **51** (1995) p. 3126.

15) A. Torcini, P. Grassberger and A. Politi, " Error Propagation in Extended Chaotic Systems ", *J. Phys. A : Mathematical and General*, **28** (1995) p. 4533.

16) S. Lepri, A. Politi and A. Torcini,"Chronotopic Lyapunov Analysis: (I) a Detailed Characterization of 1D Systems", *J. Stat. Phys.*, **82** (1996) p. 1429.

17) D. Di Cola, A.Deriu, M.Sampoli and A.Torcini, "Proton Dynamics in Supercooled Water by Molecular Dynamics and Quasi-Elastic Neutron Scattering", *J. Chem. Phys.*, **104** (1996) p. 4223.

18) U. Balucani, A. Torcini, A. Stangl and Chr. Mörkel, "Single-Particle Motion in Liquid Sodium: Thermal Crossover between Two Dynamical Regimes", *J. Non-Cristalline Solids*, **207** (1996) p. 299.

19) A. Stangl,Chr. Mörkel, U. Balucani and A. Torcini, "Single-Particle Motion in a Dense Liquid: A Competition of Mode Coupling Effects", *J. Non-Cristalline Solids*, **207** (1996) p. 402.

20) A. Torcini, "Order parameter for the transition from phase to amplitude turbulence", *Phys. Rev. Lett.*, **77** (1996) 1047.

21) A. Torcini, H. Frauenkron and P. Grassberger,"A Novel Integration Scheme for Partial Differential Equations: an Application to the Complex Ginzburg-Landau Equation", *Physica D*, **103** (1997) p. 605.

22) S. Lepri, A. Politi and A. Torcini,"Chronotopic Lyapunov Analysis: (II) Towards an Unified Approach", *J. Stat. Phys.*, **88** (1997) 31.

23) A. Torcini, R. Livi, A.Politi and S. Ruffo,"Comment on: Universal Scaling Law for the Largest Lyapunov Exponent in Coupled Map Lattices", *Phys. Rev. Lett.*, **78** (1997) 1391.

24) A. Torcini, H. Frauenkron and P. Grassberger,"Studies of Phase Turbulence in the One Dimensional Complex Ginzburg-Landau Equation", *Phys. Rev. E*, **55** (1997) 5073.

25) A. Torcini and S. Lepri,"Disturbance Propagation in Chaotic Extended Systems with Long-Range Coupling", *Phys. Rev. E*, Rapid Communication , **55** (1997) R3805.

26) T. Dauxois, S. Ruffo and A. Torcini,"Modulational Estimate for the Maximal Lyapunov Exponent in Fermi-Pasta-Ulam Chains", *Phys. Rev. E*, Rapid Communication, **56** (1997) R6229.

27) S. Lepri, A. Politi and A. Torcini,"Entropy potential and Lyapunov exponents", *Chaos*, **7** (1997) 701.

28) M. Antoni and A. Torcini,"Anomalous Diffusion as a Signature of a Collapsing Phase in 2-d Self-Gravitating Systems", *Phys. Rev. E*, Rapid Communication, **57** (1998) R6233.

29) T. Cretegny, T. Dauxois, S. Ruffo, and A. Torcini, " Localization and Equipartition of Energy in the β-FPU Chain : Chaotic Breathers", *Physica D*, **121** (1998) 106.

30) T. Dauxois, S. Ruffo and A. Torcini , " Analytical estimation of the maximal Lyapunov exponent in oscillator chains ", *J. de Physique IV*, **8** (1998) Pr6-147.

31) A. Politi, A. Torcini and S.Lepri, " Lyapunov exponents from node-counting arguments", *J. de Physique IV*, **8** (1998) Pr6-263.

32) A. Torcini, Ch. Dellago, and H.A. Posch, "Comment on : Lyapunov Exponent of a Many Body System and Its Transport Coefficients", *Phys. Rev. Lett.*, **83** (1999) 2676.

33) A. Torcini and M. Antoni, "Equilibrium and dynamical properties of two dimensional N-body systems with long-range attractive interactions", *Phys. Rev. E*, **59** (1999) 2746.

34) M. Nitti, A. Torcini, and S. Ruffo, "An integration scheme for reaction-diffusion models", *Int. J. Mod. Phys. C*, **10** (1999) 1039.

35) P. Politi and A. Torcini, "Coarsening in surface growth models without slope selection", *J. Phys. A: Mathematical and General*, Letter to the Editor, **33** (2000) L77.

36) L. Brusch, M.G. Zimmermann, M. van Hecke, M. Bär, and A. Torcini, "Modulated Amplitude Waves and the Transition from Phase to Defect Chaos", *Phys. Rev. Lett.* **85** (2000) 86.

37) L. Baroni, R. Livi, and A. Torcini, "Transition to Stochastic Synchronization in Spatially Extended Systems", *Phys. Rev. E*, **63** (2001) 036226.

38) M. Cencini and A. Torcini, "Linear and nonlinear information flow in spatially extended systems", *Phys. Rev. E*, **63** (2001) 056201.

39) L. Brusch, A.Torcini, M. van Hecke, M.G. Zimmermann, and M. Bär, "One-Dimensional Complex Ginzburg-Landau Equation: Modulated Amplitude Waves and Defect Formation", *Physica D*, **160** (2001) 127-148.

40) A.Torcini, R. Livi, and A. Politi, "A dynamical approach to protein folding", *Journal of Biological Physics*, **27** (2001) 181.

41) A.Torcini, A. Vulpiani, and A. Rocco, "Front Propagation in Chaotic and Noisy Reaction-Diffusion Systems: a Discrete-Time Map Approach", *The European Physical Journal B*, **25** (2002) 333-343.

42) A. Torcini and P. Politi, "Coarsening process in one-dimensional surface growth models", *The European Physical Journal B* **25** (2002) 519-529.

43) M. Antoni, S. Ruffo, and A. Torcini, "First and second order clustering transitions for a system with infinite-range attractive interaction", *Phys. Rev. E*, Rapid Communication, **66** (2002) 025103.

44) L. Brusch, A. Torcini, and M. Bär "Nonlinear Analysis of the Eckhaus Instability: Modulated Amplitude Waves and Phase Chaos with Non-zero Average Phase Gradient", *Physica D*, **174** (2003) 152-167.

45) M. Cencini, A. Torcini, D. Vergni, and A. Vulpiani, "Thin front propagation in steady and unsteady flows", *Physics of Fluids* **15** (2003) 679-688

46) F. Ginelli, R. Livi, A. Politi, and A. Torcini, "On the relationship between directed percolation and the synchronization transition in spatially extended systems", *Phys. Rev E* **67** (2003) 046217.

47) L. Brusch, A. Torcini, and M. Bär, "Doppler Effect of Nonlinear Waves and Superspirals in Oscillatory Media", *Phys. Rev. Lett.* **91** (2003) 108302.

48) F. Ginelli, V. Ahlers, R. Livi, D. Mukamel, A. Pikovsky, A. Politi, A. Torcini, "From multiplicative noise to directed percolation in wetting transitions", *Phys. Rev. E*, Rapid Communication **68** (2003) 065102(R)

49) L. Bongini, R. Livi, A. Politi, and A. Torcini, "Thermally activated processes in polymer dynamics", *Phys. Rev. E* **68** (2003) 061111

50) M. Antoni, S. Ruffo, and A. Torcini, "First-order microcanonical transitions in finite mean-field models", Europhys. Lett. **66** (2004) 645.

51) M. Cencini and A. Torcini, "Nonlinearly driven transverse synchronization in coupled chaotic systems ", Physica D **91** (2005) 191.

52) L. Bongini, R. Livi, A. Politi, and A. Torcini, "Exploring the energy landscape of model proteins: a metric criterion for the determination of dynamical connectivity" , Phys. Rev. E **72** (2005) 051929.

53) S. Luccioli, Th. Kreuz, and A. Torcini, "Dynamical response of the Hodgkin-Huxley model in the high-input regime", Phys. Rev. E **73** (2006) 041902.

54) R. Zillmer, R. Livi, A. Politi, and A. Torcini, "Desynchronization in diluted neural networks", Phys. Rev. E **74** (2006) 036203.

55) P. Politi and A. Torcini, "Asymptotic and effective coarsening exponents in surface growth models", The European Physical Journal B **53** (2006) 401

56) F. Ginelli, H. Hinrichsen, R. Livi, D. Mukamel, and A. Torcini, "Contact processes with long range interactions" , J. Stat. Mech. (2006) P08008

57) C.J. Tessone, M. Cencini, and A. Torcini, "Synchronization of extended chaotic systems with long-range interactions: an analogy to Levy-flight spreading of epidemics", Phys. Rev. Lett. **97** (2006) 224101

58) A. Torcini, S. Barland, G. Giacomelli, and F. Marin, "Low frequency fluctuations in a Vertical Cavity Lasers: experiments versus Lang-Kobayashi dynamics" , Phys. Rev. A **74** (2006) 063801.

59) T. Kreuz, S. Luccioli, and A. Torcini, "Double coherence resonance in neuron models driven by discrete correlated noise", Phys. Rev. Lett. **97** (2006) 238101.

60) R. Zillmer, R. Livi, A. Politi, and A. Torcini, "Desynchronized stable states in diluted neural networks", Neurocomputing **70** (2007) 1960.

61) A. Torcini, S. Luccioli, and T. Kreuz, "Coherent response of the Hodgkin-Huxley neuron in the high-input regime", Neurocomputing **70** (2007) 1943.

62) T. Kreuz, S. Luccioli, and A. Torcini, "Coherence resonance due to correlated noise in neuronal models", Neurocomputing **70** (2007) 1970.

63) R. Zillmer, R. Livi, A. Politi, and A. Torcini, "Stability of the splay state in pulse–coupled networks" , Phys. Rev. E **76** (2007) 046102.

64) A. Imparato, S. Luccioli, and A. Torcini, "Reconstructing the free energy landscape of a mechanically unfolded model protein", Phys. Rev. Lett. **99** (2007) 168101.

65) G. Innocenti, A. Morelli, R. Genesio and A. Torcin, "Dynamical phases of the Hindmarsh-Rose neuronal model: studies of the transition from bursting to spiking chaos", Chaos **17** (2007) 043128.

66) M. Cencini, C.J. Tessone, and A. Torcini, "Chaotic synchronizations of spatially extended systems as non-equilibrium phase transitions", Chaos **18** (2008) 037125.

67) S. Luccioli, A. Imparato, and A. Torcini, "Free energy landscape of mechanically unfolded model proteins: extended Jarzinsky versus inherent structure reconstruction", Phys. Rev. E. **78** (2008) 031907.

68) A. Imparato, S. Luccioli, and A. Torcini, "Erratum: Reconstructing the Free-Energy Landscape of a Mechanically Unfolded Model Protein", Phys. Rev. Lett. **100** 159903(E) (2008).

69) S. Mitternacht, S. Luccioli, A. Torcini, A. Imparato, and A. Irbäck, "Changing the mechanical unfolding pathway of FnIII$_{10}$ by tuning the pulling strength", Biophysical Journal **96**, 429-441 (2009).

70) L. Bongini, L. Casetti, R. Livi, A. Politi, and A. Torcini, "Stochastic dynamics of model proteins on a directed graph", Phys. Rev. E **79** 061925 (2009).

71) M. Calamai, A. Politi, and A. Torcini, "Stability of splay states in globally coupled rotators", Phys. Rev. E **80** 036209 (2009)

72) M. Cencini, F. Ginelli, and A. Torcini, "Synchronization of spatio-temporal chaos as an absorbing phase transition: a study in 2+1 dimensions", J. Stat. Mech. (2009) P12018.

73) A. Imparato, S. Luccioli, and A. Torcini, "Out-of-equilibrium versus dynamical and thermodynamical transitions", Prog. Theor. Phys. Supplement **184** 339 (2010).

74) S. Luccioli, S. Mitternacht, A. Imparato, A. Irbaeck, and A. Torcini, "Unfolding times for proteins in a force clamp", Phys. Rev. E as Rapid Communication **81** 010902 (2010).

75) S. Olmi, R. Livi, A. Politi, and A. Torcini, "Collective oscillations in disordered neural network", Phys. Rev. E **81** 046119 (2010)

76) J. Haas, T. Kreuz, A. Torcini, A. Politi, and HDI Abarbanel, "Rate maintenance and resonance in the entorhinal cortex", European J. Neuroscience **32**, 1930-1939 (2010)

77) S. Olmi, A. Politi, and A. Torcini, "Collective chaos in pulse coupled oscillators", Europhys. Lett. **92** 6007 (2010)

78) S. Luccioli, A. Imparato, S. Lepri, S. Piazza, and A. Torcini, "Discrete Breathers in a Realistic Coarse-Grained Model of Proteins ", Phys. Biol. **8** 046008 (2011)

79) K. A. Takeuchi, H. Chaté, F. Ginelli, A. Politi, and A. Torcini, "Extensive and Sub-Extensive Chaos in Globally-Coupled Dynamical Systems", Phys. Rev. Lett. **107** 124101 (2011)

80) F. Ginelli, K. A. Takeuchi, H. Chaté, A. Politi, and A. Torcini, "Chaos in the Hamiltonian mean field model" Phys. Rev. E **84** 066211 (2011)

81) L. Tattini, S. Olmi, and A. Torcini, "Coherent periodic activity in excitatory Erdös-Reniy neural networks", Chaos **22** 023133 (2012)

82) M. Dipoppa, M. Krupa, A. Torcini, and B. S. Gutkin, "Splay states in finite pulse-coupled networks of excitable neurons", SIAM Journal on Applied Dynamical Systems **11** 864-894 (2012)

83) S. Luccioli, S. Olmi, A.Politi, and A. Torcini, "Collective dynamics in sparse networks", Phys. Rev. Lett. **109** 138103 (2012)

84) M. Bär, E. Schöll, A. Torcini, "Synchronization and complex dynamics of oscillators with delayed pulse-coupling", Angew. Chem. Int. Ed. **51** 9489(2012)

85) S. Olmi, A.Politi, and A. Torcini, "Stability of the splay state in networks of pulse-coupled neurons", J. Mathematical Neuroscience **2** 12 (2012)

86) A.K. Jiotsa, A.Politi, and A. Torcini, "Convective Lyapunov Spectra", J. Phys. A: Math. Theor. **46** (2013) 254013.

87) M. di Volo, R. Livi, S. Luccioli, A.Politi, and A. Torcini, "Synchronous dynamics in the presence of short-term plasticity", Phys. Rev. E **87** 032801 (2013)

88) K. Mikkelsen, A. Imparato, and A. Torcini, "Emergence of slow collective oscillations in neural networks with spike timing dependent plasticity", Phys. Rev. Lett. **110** 208101 (2013)

89) S. Olmi, A.Politi, and A. Torcini, "Linear Stability in networks of pulse-coupled neurons", Frontiers in Computational Neuroscience 8:8 (2014).

90) K. Mikkelsen, A. Imparato, and A. Torcini, "Sisyphus Effect in Pulse Coupled Excitatory Neural Networks with Spike-Timing Dependent Plasticity", Phys. Rev. E **89** 062701 (2014).

91) S. Luccioli, E. Ben-Jacob, A. Barzilai, P. Bonifazi, and A. Torcini, "Clique of functional hubs orchestrates population bursts in developmentally regulated neural networks", PLOS Computational Biology 10(9): e1003823 (2014).

92) D. Angulo-Garcia and A. Torcini, "Stable chaos in fluctuation driven neural circuits", Chaos,solitons and fractals **69** 233-245 (2014)

93) S. Olmi, A. Navas, S. Boccaletti, and A. Torcini, "Hysteretic transitions in the Kuramoto model with inertia", Phys. Rev. E **90** 042905 (2014).

94) D. Schüler, S. Alonso, A. Torcini, and M. Bär, "Spatio-temporal dynamics induced by competing instabilities in two asymmetrically coupled nonlinear evolution equations", Chaos **24** 043142 (2014)

95) D. Angulo-Garcia and A. Torcini, "Stochastic modelization of diluted neural networks displaying collective oscillations", Phys. Rev. E **91** 022928 (2015)

96) P. Politi and A. Torcini, "Dynamics versus energetics in phase separation", J. Stat. Mech. P03016 (2015)

97) S. Olmi, E. A. Martens, S. Thutupalli, and A. Torcini, " Intermittent chaotic chimeras for coupled rotators", Phys. Rev. E **92** 030901(R) (2015)

98) D. Angulo-Garcia, J.D. Berke, and A. Torcini, "Cell assembly dynamics of sparsely-connected inhibitory networks: a simple model for the collective activity of striatal projection neurons", PLOS Computational Biology, 12(2): e1004778 (2016).

99) D. Angulo-Garcia, S. Luccioli, S. Olmi, A. Torcini, "Death and rebirth of neural activity in sparse inhibitory networks", New Journal of Physics 7, 1577 (2017)

100) S. Olmi, D. Angulo-Garcia, A. Imparato, A. Torcini, "Exact firing time statistics of neurons driven by discrete inhibitory noise", Scientific reports 19, 053011 (2017)

101) E. Ullner, A. Politi, A. Torcini, "Ubiquity of collective irregular dynamics in balanced networks of spiking neurons", Chaos , 28, 081106 (2018) (Fast Track)

102) A. Politi, E. Ullner, A. Torcini, "Collective irregular dynamics in balanced networks of leaky integrate-and-fire neurons", Eur. Phys. J. Special Topics 227, 1185-1204 (2018).

103) M. di Volo, A. Torcini, "Transition from asynchronous to oscillatory dynamics in balanced spiking networks with instantaneous synapses", Phys. Rev. Lett. 121 , 128301 (2018)

104) S. Luccioli, D. Angulo-Garcia, R. Cossart, A. Malvache, L. Modol, V. Hugo Sousa, P. Bonifazi, A. Torcini, "Modeling driver cells in developing neuronal networks", PLOS Computational Biolology 14(11): e1006551 (2018)

105) C. Haimerl, D. Angulo-Garcia, V. Villette, Su. Reichinnek, A. Torcini, R. Cossart, A. Malvache, "Internal representation of hippocampal neuronal population span a time-distance continuum" PNAS Proceedings of the National Academy of Sciences of the USA, in press (preprint bioRxiv.475095) (2019).

106) H. Bi, M. Segneri, M. di Volo,A.Torcini, "Coexistence of fast and slow gamma oscillations in one population of inhibitory spiking neurons", submitted to Physical Review X (2019).

Others publications/Book Chapters :

107) A. Politi, G. D'Alessandro, A. Torcini, "Fractal dimensions in coupled map lattices" in *Measures of Complexity and Chaos*, editors N.B. Abraham et al., Plenum Press (New York, 1989) p.409

108) A. Torcini, "Mappe quali sistemi dinamici", in *Metodi ed Applicazioni di Dinamica Nonlineare e Stocastica*, scientific report for E.N.E.A. (National Agency for Alternative Energy Sources) (1990), ed. M. Pettini

109) A. Torcini, "Caos ad alta dimensionalitá", in *Metodi ed Applicazioni di Dinamica Nonlineare e Stocastica* scientific report for E.N.E.A. (1990), ed. M. Pettini

110) U.Balucani, S.D.Duffy, A.Torcini, R.Vallauri, "Transport Properties in Ordinary and Supercooled Liquids", in *Slow Dynamics in Condensed Matter* , eds. K. Kawasaki et al., American Institute of Physics (New York,1992) p. 126

111) U. Balucani, G. Ruocco, M. Sampoli, A. Torcini, R. Vallauri, "Anomalous Sound Dispersion in Liquid Water", in *Hydrogen Bond Networks*, M.C. Bellisent-Funel and J.C. Dore editors, Kluwer Academic Publisher (Dordrecht, The Netherland, 1993) p 405.

112) G. Ruocco, M. Sampoli, A. Torcini, R. Vallauri, "MD Simulations of Stretched TIP4P-water in the Supercooled Regime", in *Hydrogen Bond Networks*, M.C. Bellisent-Funel and J.C. Dore editors, Kluwer Academic Publisher (Dordrecht, The Netherland, 1993) p. 409.

113) A. Torcini, "Disturbance Propagation in Coupled Map Lattices", in *Chaos: The interplay betweeen stochastic and determistic behaviour*, eds. P.Garbaczewski et al. (Lecture Notes in Physics, Springer Verlag, Berlin,1995) , vol. 457 p.537.

114) L. Baroni, R. Livi, and A. Torcini, "Noise-driven Synchronization in Coupled Map Lattices", published in *Dynamical Systems:from Cristal to Chaos*, eds J-M Gambaudo, P Hubert, P Tisseur, and S Vaienti (World Scientific, Singapore,2000) page 23.

115) R.Genesio, M. Nitti, and A. Torcini, "Analysis and Simulation of Waves in Reaction-Diffusion Systems" , Proceedings of the 37th IEEE Conference on Decision & Control Tampa, Florida USA (December 1998), TA16-3 10:40.

116) M. Antoni, S. Ruffo, and A. Torcini, "Dynamics and statistics of simple models with infinite-range attractive interaction", in *The Chaotic Universe*, editors V. G. Gurzadyan and R. Ruffini (World Scientific, Singapore, 2000) page 467.

117) T. Dauxois, V. Latora, A. Rapisarda, S. Ruffo, and A. Torcini, "The Hamiltonian Mean Field Model: from Dynamics to Statistical Mechanics and back", published in Dynamics and Thermodynamics of Systems with Long Range Interactions eds: T. Dauxois, S. Ruffo, E. Arimondo, and M. Wilkens (Lecture Notes in Physics, Springer, Berlin, 2002) p. 458.

118) L. Brusch, H.K. Park, M. Bär, and A. Torcini, "Spiral Instabilities in Periodically Forced Extended Oscillatory Media", Proceedings of Equadiff03: International Conference on Differential Equations, edited by F. Dumortier (World Scientific, 2005, Singapore) 777-782.

119) A. Politi, and A. Torcini, "Stable Chaos", in Nonlinear Dynamics and Chaos: Advances and Perspectives Eds. Thiel, M.; Kurths, J.; Romano, M.C.; Moura, A.; Karolyi, G., (Springer Verlag, 2010, Heidelberg)

120) A. Torcini and M. Cencini, Synchronization of extended chaotic systems. Scholarpedia, 8(6):30650 (2013)

121) S. Olmi and A. Torcini, Coherent activity in excitatory pulse-coupled networks. Scholarpedia, 8(10):30928 (2013).

122) S. Olmi and A. Torcini, "Dynamics of fully coupled rotators with unimodal and bimodal frequency distribution" in "Control of Self-Organizing Nonlinear Systems", eds E. Schöll, S. Klapp and P. Hövel, pages 25-45 (Springer-Verlag, Berlin, 2016)

123) S. Olmi and A. Torcini, "Chimera states in pulse coupled neural networks: the influence of dilution and noise", in "Nonlinear Dynamics in Computational Neuroscience", PoliTO Springer Series, p. 65-79 (2019)

124) S. Luccioli, E. Ben-Jacob, A. Barzilai, P. Bonifazi, and A. Torcini, "Functional Cliques in Developmentally Correlated Neural Networks" in "Nonlinear Dynamics in Computational Neuroscience", PoliTO Springer Series, p. 53-64 (2019) [PDF]

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Alessandro Torcini