

# MARTIN RICHARD EVANS

## LIST OF PUBLICATIONS

Date: May 24, 2018

The numbers of citations for articles registered on the Web of Science Database as of 24/05/2018 are indicated in square brackets. For articles not on this database the number of citations according to Google Scholar is given in italics.

Only refereed conference proceedings are included.

Asterisks are given against those articles considered to be the most significant contributions to knowledge.

### 1. Books Published

N/A

### 2. Books edited

*Soft and Fragile Matter: Non-equilibrium Dynamics, Metastability and Flow* Editors: M.E.Cates and M. R. Evans, Institute of Physics Publishing, Bristol (2000)

### 3. Articles published as sole author

- [1] M. R. Evans *Turning Statistical Mechanics on its Head* J. Phys. A Math. and Theor. **50** 131001 (2017)
- [2] M. R. Evans *Phase Transitions in Stochastic Models of Flow in Traffic and Granular Flow 05* p447–459, Ed A. Schadschneider, T. Pöschel, R. Kühne, M. Schreckenberg, D.E.Wolf, Springer-Verlag Berlin Heidelberg 2007 (Conference Proceedings).
- [3] M. R. Evans *Factorised Steady States and Condensation Transitions in Non-equilibrium Systems* Pramana-Journal Of Physics **64** 859-869 Sp. Iss. SI 2005 (Conference Proceedings).
- [4] M. R. Evans *Condensation Transitions in Non-equilibrium Systems* in *International Conference on Theoretical Physics TH-2002* Ann. Henri Poincaré 4, Suppl. 1 (2003) S427–S436 (Conference Proceedings)
- [5] \* M. R. Evans *Phase Transitions in One-Dimensional Systems* Brazilian Journal of Physics **30** 42–57, (2000) [231]\*
- [6] \* M. R. Evans *Exact Steady States of Disordered Hopping Particle models with Parallel and Ordered Sequential Dynamics* J. Phys. A Math. and Gen. **30** 5669–5685, (1997) [97]\*
- [7] \* M. R. Evans *Bose-Einstein Condensation in Disordered Exclusion Models and Relation to Traffic Flow* Europhys. Lett. **36** 13–18, (1996) [151] \*

- [8] M. R. Evans *Correlations between Metastable States in Spin Glasses* , Phys. Rev. B **48** 3515–3518, (1993)
- [9] M. R. Evans *Random Dilution in a Neural Network for Biased Patterns*, J. Phys. A Math. Gen. **22** 2103–2118, (1989) [17]

#### 4. Joint articles published

- [10] A. C. Tadrowski, M. R. Evans, B. Waclaw *Phenotypic switching can speed up biological evolution of microbes* Scientific Reports 2018 *accepted*
- [11] F. Cagnetta, M. R. Evans, D. Marenduzzo *Active interface growth and pattern formation in actin-protein systems* Phys. Rev. Lett. 2018 *selected for Editors' Suggestion*
- [12] By: P. Greulich, J. Dolezal, M. Scott, M. R. Evans, R. J. Allen. *Predicting the dynamics of bacterial growth inhibition by ribosome-targeting antibiotics* Physical Biology **14** 065005 (2017)
- [13] A. J. Wood, R. A. Blythe, M. R. Evans *Renyi entropy of the totally asymmetric exclusion process* J. Phys. A: Math. Theor. **50** 475005 (2017) [1]
- [14] A. B. Slowman, R. A. Blythe, M. R. Evans *Exact solution of two interacting run-and-tumble random walkers with finite tumble duration* J. Phys. A: Math. Theor. **50** 375601 (2017) [1]
- [15] R. Falcao and M. R. Evans *Interacting Brownian motion with resetting* J. Stat. Mech.: Theor. Exp. P023204 (2017) [1]
- [16] D. Boyer, M. R. Evans and S. N. Majumdar *Long time scaling behaviour for diffusion with resetting and memory* J. Stat. Mech.: Theor. Exp. P023208 (2017) [2]
- [17] J. Szavits-Nossan, M. R. Evans and S. N. Majumdar *Conditioned random walks and interaction-driven condensation* J. Phys. A Math. Theor. **50** 024005, (2017) [1]
- [18] N. Crampe, M. R. Evans, K. Mallick, E. Ragoucy and M. Vanicat *Matrix product solution to a 2-species TASEP with open integrable boundaries* J. Phys. A Math. Theor. **49** 475001, (2016) [7]
- [19] S. Klein, C. Appert-Rolland, M. R. Evans *Spontaneous pulsing states in an active particle system* J. Stat. Mech.: Theor. Exp. P093206 (2016) [6]
- [20] A. B. Slowman, M. R. Evans and R. A. Blythe *Jamming and Attraction of Interacting Run-and-Tumble Random Walkers* Phys. Rev. Lett. **21** 218101 (2016) [4]
- [21] A. Pal, A. Kundu, M. R. Evans *Diffusion under time-dependent resetting* J. Phys. A: Math. Theor. **49**, 225001 (2016) [16]
- [22] A. I. Curatolo, M. R. Evans, Y. Kafri and J. Tailleur. *Multilane driven diffusive systems* J. Phys. A: Math. Theor. **49**, 095601, (2016) [6]

- [23] J. Szavits-Nossan, J. and M. R. Evans *Inequivalence of nonequilibrium path ensembles: the example of stochastic bridges* J. Stat. Mech. P12008 (2015) [7]
- [24] M. R. Evans and B. Waclaw *Condensation in models with factorized and pair-factorized stationary states* J. Stat. Mech. P09005 (2015) [2]
- [25] \*P. Greulich, M. Scott, M. R. Evans and R. J. Allen *Growth-dependent bacterial susceptibility to ribosome-targeting antibiotics* Molecular Systems Biology **11**: 796, (2015) [16]\*
- [26] J. Whitehouse, A. Costa, R. A. Blythe and M. R. Evans *Maintenance of order in a moving strong condensate* J. Stat. Mech.: Theor. Exp. P11029 (2014) [2]
- [27] J. Szavits-Nossan, M. R. Evans and S. N. Majumdar *Condensation transition in joint large deviations of linear statistics* J. Phys. A: Math. Theor. **47**, 455004, (2014) [6]
- [28] J. Szavits-Nossan, K. Eden, R. J. Morris, C. MacPhee, M. R. Evans and R. J. Allen *Inherent Variability in the Kinetics of Autocatalytic Protein Self-Assembly* Physical Review Letters **113** 8101-8101, (2014) [18]
- [29] M. R. Evans and S.N. Majumdar *Diffusion with resetting in arbitrary spatial dimension* J. Phys. A: Math. Theor. **47** 285001, (2014) [21]
- [30] M. R. Evans and B. Waclaw *Condensation in stochastic mass transport models: beyond the zero-range process* J. Phys. A: Math. Theor. **47** 095001, (2014) [26]
- [31] K. Wolff, C. Barrett-Freeman, M. R. Evans, A. B. Goryachev and D. Marenduzzo *Modelling the effect of myosin X motors on filopodia growth* Physical Biology **11** 016005 (2014) [7]
- [32] J. Venegas-Ortiz, R. J. Allen and M. R. Evans *Speed of Invasion of an Expanding Population by a Horizontally Transmitted Trait* Genetics **196** 497 (2014) [6]
- [33] \*J. Szavits-Nossan, M. R. Evans and S. N. Majumdar, *Constraint-Driven Condensation in Large Fluctuations of Linear Statistics* Physical Review Letters **112** 020602 (2014) [21]\*
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- [35] M. R. Evans, S.N. Majumdar and K. Mallick *Optimal diffusive search: nonequilibrium resetting versus equilibrium dynamics* J. Phys. A: Math. Theor. **46** 185001, (2013) [17]
- [36] J. Whitehouse, M. R. Evans, S. N. Majumdar. *Effect of partial absorption on diffusion with resetting* Physical Review E **87** 022118, (2013) [18]
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## 5. Review articles

- [113] \* R. A. Blythe and M. R. Evans *Non-equilibrium steady states of matrix product form: a solver's guide* J. Phys. A.: Math. Theor. **40** R333–R441 (2007) (Invited topical review) [339]\*
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(Invited article for special edition on non-equilibrium dynamics.) [38]
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(Invited review article based on lectures given at summer school *Fundamental Problems in Statistical Mechanics*). [41]
- [117] M. R. Evans *Anomalous Coarsening and Glassy Dynamics* J. Phys. Cond. Matt. (2002) **14** 1397–1422  
(Invited review article selected from speakers at a E.S.F. network meeting) [18]
- [118] B. Derrida and M. R. Evans *The Asymmetric Exclusion Model: Exact Results Through a Matrix Approach* Chapter 14 in *Non-equilibrium Statistical Mechanics in One Dimension* Ed. V Privman, C.U.P. (1997)  
(Invited review chapter for book specialising in subject matter of title) [81]
- [119] B. Derrida, M. R. Evans *Exact Steady State Properties of the One Dimensional Asymmetric Exclusion Model* in “*Probability Theory and Phase Transition*” p1–16, Ed G. Grimmett, (1994) Dordrecht, Netherlands Kluwer Academic  
(Review article for book based around a NATO advanced study institute.) [15]

### Additional information from Web of Science 24/05/2018

Total number of refereed articles registered: 117  
Sum of times cited: 5291  
Average citations per item: 45.22  
Hirsch index: 37

### Additional information from Google Scholar 24/05/2018

Sum of times cited: 7687  
Hirsch index: 41