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Publication list

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Articles in preparation

- *Shadowing, unique shadowing and expansivity* with Sergio Macías, Jonathan Meddaugh, Joel Mitchell, Joe Thomas.
- *Continuity in the rational world*, with Amna Ahmed
- *The lattice of closed and compact subsets of the reals under homeomorphic embedding*, with Andrew Marsh, Aisling McCluskey and Columba Perez
- *Countable dynamics*, with Columba Perez

Papers submitted for publication

- [Equicontinuity, transitivity and sensitivity; the Auslander-Yorke dichotomy revisited](#), with Rob Leek and Joel Mitchell
- [Preservation of shadowing in discrete dynamical systems](#), with Joel Mitchell and Joe Thomas
- [On inverse shadowing](#), with Joel Mitchell and Joe Thomas
- [Approaches to feedback in the mathematical sciences: just what do students really think?](#), with Michael Grove.
- [A characterisation of compatible state space aggregations for discrete dynamical systems](#), with David Parker, Mate Puljiz and Jonathan E. Rowe
- [Period one implies chaos . . . sometimes](#), with Syahida binti Che Dzul-Kifli
- [Shifts of finite type as fundamental objects in the theory of shadowing](#), with Jonathan Meddaugh

Articles in press

- [51] *Multi-scale stochastic organization-oriented coarse-graining exemplified on the human mitotic checkpoint*, with R Henze, CY Mu, M Puljiz, N Kamaleson, J Huwald, J Haslegrave, P Speroni di Fenizio, D Parker, C Good, JE Rowe, P Dittrich, to appear in Scientific Reports.

Mathematical research articles

- [50] [Almost minimal systems and periodicity in hyperspaces](#), with Leobardo Fernandez and Mate Puljiz, Ergodic Theory and Dynamical Systems, 38, 2158–2179, (2018) <http://dx.doi.org/10.1017/etds.2016.123> Cited in: [Shi18]
- [49] [Shadowing, asymptotic shadowing and \$s\$ -limit shadowing](#), with Piotr Oprocha and Mate Puljiz, Fund. Mat., 244, 287–312, (2019). <https://doi.org/10.4064/fm492-5-2018> Cited in: [CC]
- [48] [What is topological about topological dynamics?](#), with Sergio Macias, Discrete and Continuous Dynamical Systems (Series A), 38, 1007–1031, (2018), doi: 10.3934/dcds.2018043 Cited in: [LLL18], [WLML19].
- [47] [Orbital Shadowing, Internal Chain Transitivity and \$\omega\$ -limit sets](#), with Jonathan Meddaugh, Ergodic Theory and Dynamical Systems, 38, 143–154, (2018). <https://doi.org/10.1017/etds.2016.30> Cited in: [GOP19], [Lee19]
- [46] *The Chaotic Behavior on the Unit Circle*, with Syahida binti Che Dzul-Kifli, International Journal of Mathematical Analysis, 10, 245–1254, (2016). <https://doi.org/10.12988/ijma.2016.68103>

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- [44] *Dense periodicity property and Devaney chaos on shifts spaces*, with Malouh Baloush, Syahida Che Dzul-Kifli, *International Journal of Mathematical Analysis*, Vol. 10, 1019–1029, (2016). <http://dx.doi.org/10.12988/ijma.2016.6574>. Cited in: [BDK18], [KBCDK19]
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- [42] *Chain transitivity in hyperspaces*, with Leobardo Fernandez, Mate Puljiz, Artico Ramirez, *Chaos, Solitons and Fractals*, 81, 83–90, (2015). doi:10.1016/j.chaos.2015.08.026
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- [39] *Characterizations of ω -Limit Sets in Topologically Hyperbolic Systems*, with Andrew Barwell, Piotr Oprocha and Brian Raines, *Discrete and Continuous Dynamical Systems* 33, 1819–1833 (2013). doi:10.3934/dcds.2013.33.1819 Cited in [BMR15], [BGO12] [BR15], [Bri18], [FG16], [Fer15], [GM18a], [GM18b], [GOP19], [MR15], [MR14], [MR13], [WWL18].
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