

Lista de lucrări

Articole

1. Duque, C. M., Hall, D. M., **Tyukodi, B.**, Hagan, M. F., Santangelo, C. D., & Grason, G. M. (2024). Limits of economy and fidelity for programmable assembly of size-controlled triply-periodic polyhedra. *121(18)*, 1–11. <https://doi.org/10.1073/pnas.2315648121>
2. **Tyukodi, B.**, Barbot, A., García-garcía, R., Lerbinger, M., Patinet, S., & Vandembroucq, D. (2023). Coarse-graining amorphous plasticity: impact of rejuvenation and disorder. *Comptes Rendus Physique*, 0–19. <https://doi.org/10.5802/crphys.156>
3. **Tyukodi, B.**, Mohajerani, F., Hall, D. M., Grason, G. M., & Hagan, M. F. (2022). Thermodynamic Size Control in Curvature-Frustrated Tubules: Self-Limitation with Open Boundaries. *ACS Nano*. <https://doi.org/10.1021/acsnano.2c00865>
4. Mohajerani, F., **Tyukodi, B.**, Schlicksup, C. J., Hadden-Perilla, J. A., Zlotnick, A., & Hagan, M. F. (2022). Multiscale Modeling of Hepatitis B Virus Capsid Assembly and Its Dimorphism. *ACS Nano*, *16(9)*, 13845–13859. <https://doi.org/10.1021/acsnano.2c02119>
5. Videbæk, T. E., Fang, H., Hayakawa, D., **Tyukodi, B.**, Hagan, M. F., & Rogers, W. B. (2022). Tiling a tubule: How increasing complexity improves the yield of self-limited assembly. *Journal of Physics Condensed Matter*, *34(13)*. <https://doi.org/10.1088/1361-648X/ac47dd>
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7. K Khirallah, **B Tyukodi**, D Vandembroucq, CE Maloney (2021) Yielding in an integer automaton model for amorphous solids under cyclic shear. *Physical Review Letters* *126 (21)*, 218005
8. L Ravasz, KA Kékesi, D Mittli, MI Todorov, Z Borhegyi, M Ercsey-Ravasz, **B Tyukodi**, J Wang, T Bartfai, J Eberwine, G Juhasz (2021) Cell surface protein mRNAs show differential transcription in pyramidal and fast-spiking cells as revealed by single-cell sequencing. *Cerebral Cortex* *31 (2)*, 731-745
9. **Tyukodi, B.**, Vandembroucq, D., & Maloney, C. E. (2019). Avalanches, thresholds, and diffusion in mesoscale amorphous plasticity. *Physical Review E*, *100(4)*, 43003. <https://doi.org/10.1103/PhysRevE.100.043003>
10. **Tyukodi, B.**, Vandembroucq, D., & Maloney, C. E. (2018). Diffusion in Mesoscopic Lattice Models of Amorphous Plasticity. *Physical Review Letters*, *121(14)*, 145501. <https://doi.org/10.1103/PhysRevLett.121.145501>
11. B Bresson, C Brun, X Buet, Y Chen, M Ciccotti, J Gâteau, G Jasion, MN Petrovich, F Poletti, DJ Richardson, SR Sandoghchi, G Tessier, **B Tyukodi**, D Vandembroucq (2017) Anisotropic superattenuation of capillary waves on driven glass interfaces. *Physical Review Letters* *119 (23)*, 235501
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13. **Tyukodi, B.**, Patinet, S., Roux, S., & Vandembroucq, D. (2016). From depinning transition to plastic yielding of amorphous media: A soft-modes perspective. *Physical Review E - Statistical, Nonlinear, and Soft Matter Physics*, *93(6)*, 1–12. <https://doi.org/10.1103/PhysRevE.93.063005>
14. **Tyukodi, B.**, Bréchet, Y., Nédá, Z. (2014). Kinetic roughening of a soft dewetting line under quenched disorder: A numerical study. *Physical Review E*, *90(5)*, 052404. <https://doi.org/10.1103/PhysRevE.90.052404>

15. S Boda, Z Neda, **B Tyukodi**, A Tunyagi (2013), The rhythm of coupled metronomes. The European Physical Journal B 86, 1-9

16. **B Tyukodi**, IA Chioar, Z Néda (2013) A kinetic Monte Carlo study for stripe-like magnetic domains in ferrimagnetic thin films. Open Physics 11 (4), 487-496

17. **B Tyukodi**, Z Sárközi, Z Néda, A Tunyagi, E Györke (2012) The Boltzmann constant from a snifter. European journal of physics 33 (2), 455

Teza de doctorat

A depinning approach of amorphous plasticity and dewetting, full text at <https://theses.hal.science/tel-01539505>

Cărți

Néda Zoltán, **Tyukodi Botond**, Kacsó Ágota-Enikő, A klasszikus statisztikus fizika alapjai, Editura Ábel, 2014, ISBN 978-973-114-187-9