

Publication List Roel Dullens (updated 13 Sep. 23)

1. C. Fernandez-Rico and R.P.A. Dullens, Curved colloidal liquid crystals, **submitted** (2023)
2. M. Kamp, S. Sacanna and R.P.A. Dullens, TPM: spearheading a new era in complex colloid synthesis, **submitted** (2023)
3. B. van der Meer, T. Yanagishima and R.P.A. Dullens, *Emergence of interparticle friction in attractive colloidal matter*, **submitted** (2023)
4. T. Yanagishima, J. Russo, R.P.A. Dullens and H. Tanaka, *From ultra-fast growth to avalanche growth in devitrifying glasses*, **J. Chem. Phys.** 159, 064510 (2023)
5. M.C.R. Bell-Davies, A. Curran, Y. Liu and R.P.A. Dullens, *Dynamics of a colloidal particle driven by continuous time-delayed feedback*, **Phys. Rev. E** in press (2023)
6. J-A. Ulbrich, C. Fernandez-Rico, B. Rost, J. Vialetto, L. Isa, J.S. Urbach, and R.P.A. Dullens, *Effect of curvature on the diffusion of colloidal bananas*, **Phys. Rev. E** 107, L042602 (2023)
7. R. Crothers, N.H.P. Orr, B. van der Meer, R.P.A. Dullens and T. Yanagishima, *Characterization and optimization of fluorescent organosilica colloids for 3D confocal microscopy prepared under 'zero-flow' conditions*, **Langmuir** 39, 5306 (2023)
8. N.H.P. Orr, T. Yanagishima, I. Dolbnya, A.V. Petukhov and R.P.A. Dullens, *Single-orientation colloidal crystals from capillary-action-induced shear*, **J. Chem. Phys.** 157, 224903 (2022)
9. J.D. Hutchinson, F.A. Lavergne and R.P.A. Dullens, *Crystallisation and Grain Growth in Impurity-Doped Colloidal Polycrystals*, **Phys. Rev. Materials** 6, 075604 (2022)
10. N.H.P. Orr, T. Yanagishima, E. Maire and R.P.A. Dullens, *Grain Boundary Characterisation From Particle Coordinates*, **Phys. Rev. Materials** 5, 123605 (2021)
11. T. Yanagishima, J. Russo, R.P.A. Dullens and H. Tanaka, *Towards glasses with permanent stability*, **Phys. Rev. Lett.** 127, 215501 (2021)
12. C. Fernández-Rico and R.P.A. Dullens, *Hierarchical self-assembly of colloidal bananas into a two-dimensional vortex phase*, **Proc. Natl. Acad. Sci. USA** 118, e2107241118 (2021)
13. T. Yanagishima, Y. Liu, H. Tanaka and R.P.A. Dullens, *Particle-level visualization of hydrodynamic and frictional couplings in dense colloidal suspensions of spherical colloids*, **Phys. Rev. X** 11, 021056 (2021)
14. C. Fernández-Rico, J.S. Urbach and R.P.A. Dullens, *Synthesis of rough colloidal SU-8 rods and bananas via nanoprecipitation*, **Langmuir** 37, 2900 (2021)
15. B. Peng, Y. Liu, D.G.A.L. Aarts and R.P.A. Dullens, *Stabilisation of hollow colloidal titanium-dioxide particles by partial coating with evenly distributed lobes*, **Soft Matter** 17, 1480 (2021)
16. I. Buttinoni and R.P.A. Dullens, *Mechanical properties of two-dimensional colloidal crystals at fluid interfaces*, **J. Phys. Materials** 4, 025001 (2021)
17. C. Fernández-Rico, M. Chiappini, T. Yanagishima, H. de Sousa, D.G.A.L. Aarts, M. Dijkstra and R.P.A. Dullens, *Shaping colloidal bananas to reveal biaxial nematic, splay-bend nematic and smectic phases*, **Science** 369, 950 (2020)
18. N.H. Siboni, A.L. Thorneywork, A. Damm, R.P.A. Dullens and J. Horbach, *On the long-time self-diffusion in quasi-two-dimensional colloidal fluids of paramagnetic particles*, **Phys. Rev. E** 101, 042609 (2020)
19. D. Ormrod Morley, A.L. Thorneywork, R.P.A. Dullens and M. Wilson, *Generalised network theory of physical two-dimensional systems*, **Phys. Rev. E** 101, 042309 (2020)
20. A.E. Stones, R.P.A. Dullens and D.G.A.L. Aarts, *Model-free measurement of the pair potential in colloidal fluids using optical microscopy*, **Phys. Rev. Lett.** 123, 098002 (2019)
21. J. Abbott, A. Straube, D.G.A.L. Aarts and R.P.A. Dullens, *Colloidal particles driven across a temporally oscillating optical potential energy landscape*, **New. J. Phys.** 21, 083027 (2019)
22. F.A. Lavergne, A. Curran, D.G.A.L. Aarts and R.P.A. Dullens, *Shrinkage mechanisms of grain boundary loops in two-dimensional colloidal crystals*, **Eur. Phys. J. B** 92, 142 (2019)
23. Y. Liu, T. Yanagishima, A. Curran, K.V. Edmond, S. Sacanna and R.P.A. Dullens, *Colloidal organosilica spheres for three-dimensional confocal microscopy*, **Langmuir** 35, 7962 (2019)

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31. B. Peng, X. Zhang, D.G.A.L. Aarts and R.P.A. Dullens, *Superparamagnetic nickel colloidal nanocrystal clusters with antibacterial activity and bacteria binding ability*, **Nat. Nanotech.** 13, 478 (2018)
32. D. Stopper, A.L. Thorneywork, R.P.A. Dullens and R. Roth, *Bulk dynamics of colloidal hard disks: dynamical density functional theory versus experiments*, **J. Chem. Phys.** 148, 104501 (2018)
33. A.L. Thorneywork, J.L. Abbott, D.G.A.L. Aarts, P. Keim and R.P.A. Dullens, *Bond-orientational order and Frank's constant in two-dimensional colloidal hard spheres*, **J. Phys.: Condens. Matter** 30, 104003 (2018)
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38. A.L. Thorneywork, J.L. Abbott, D.G.A.L. Aarts and R.P.A. Dullens, *Two-dimensional melting of colloidal hard spheres*, **Phys. Rev. Lett.** 118, 158001 (2017)
39. S.K. Schnyder, T.O.E. Skinner, A.L. Thorneywork, D.G.A.L. Aarts, J. Horbach and R.P.A. Dullens, *Dynamic heterogeneities and non-Gaussian behaviour in two-dimensional randomly confined colloidal fluids*, **Phys. Rev. E** 95, 032602 (2017)
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