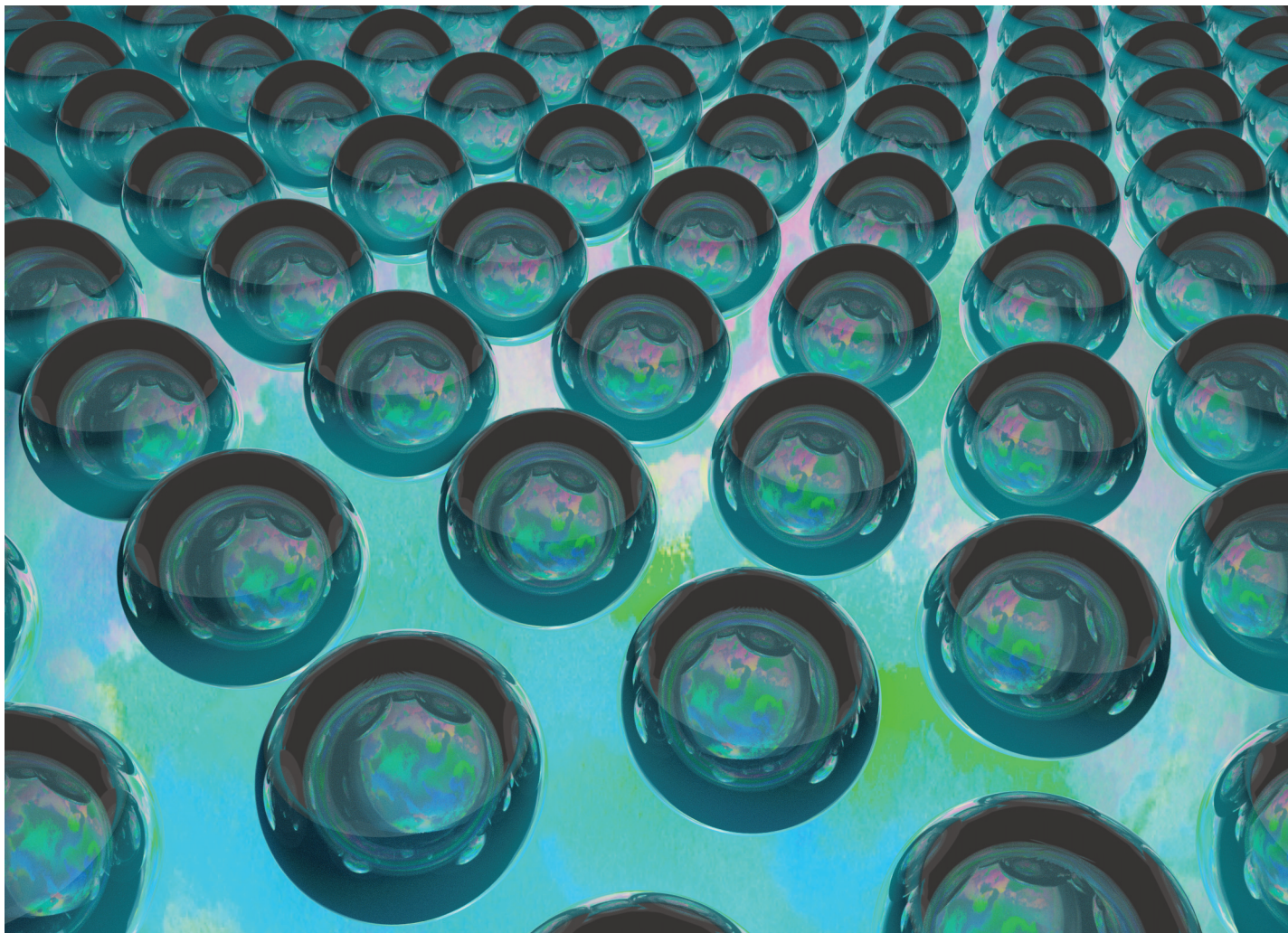


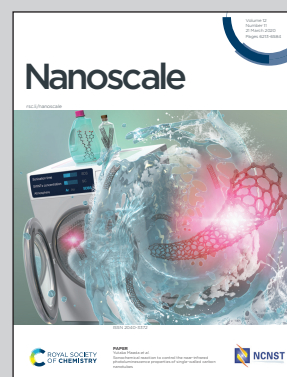


**Showcasing research from the Damien Baigl laboratory,
École Normale Supérieure, Paris, France.**

From bulk crystallization of inorganic nanoparticles at the air/water interface: tunable organization and intense structural colors

We report how two simple “flipping” steps on a colloidal suspension supplemented with minute amounts of oppositely charged surfactant results in both adsorption and self-organization of nanoparticles of various compositions (silica, silver, gold), sizes and shapes (spheres, cubes) at the air/water interface. In particular, the mixtures can be programmed to obtain the 2D self-assembly of colloids into optically active crystalline structures. This illustration depicts the bright structural colors obtained from the highly ordered particle monolayers that can be generated by this approach.

As featured in:



See Damien Baigl *et al.*, *Nanoscale*, 2020, 12, 6279.