

The evaporation of sessile droplets has been the subject of extensive experimental, numerical and analytical investigation in recent years partly motivated by the wide range of everyday and industrial situations, such as protein crystallography, surface patterning, ink-jet printing, including that of OLED screens, and agrochemical spraying of plants, in which it occurs. In this talk I shall review some of the recent developments in the study of evaporating droplets, focusing on situations in which mathematical modelling can give new insights into this fascinating multidisciplinary problem, including the competitive evaporation of multiple droplets. This is joint work with a number of collaborators, including Brian Duffy, David Pritchard and Alexander Wray (University of Strathclyde) and Khellil Sefiane (University of Edinburgh).

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