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## Summary

## Memberships

## Organisations

[School of Chemistry](#)

## Chemistry staff

- [Chemistry academic staff](#)

## Recent publications

- Gregson, FK, Robinson, JF, Miles, RE, Royall, CP & Reid, JP, 2019, '[Drying Kinetics of Salt Solution Droplets: Water Evaporation Rates and Crystallization](#)'. *Journal of Physical Chemistry B*, vol 123., pp. 266-276
- Marsh, A, Rovelli, G, Miles, R & Reid, J, 2019, '[Complexity of Measuring and Representing the Hygroscopicity of Mixed Component Aerosol](#)'. *Journal of Physical Chemistry A*, vol 123., pp. 1648-1660
- Miles, R, Glerum, M, Boyer, H, Walker, J, Dutcher, C & Bzdek, B, 2019, '[Surface Tensions of Picoliter Droplets with Sub-Millisecond Surface Age](#)'. *Journal of Physical Chemistry A*, vol 123., pp. 3021-3029
- Ordoubadi, M, Gregson, FK, Melhem, O, Barona, D, Miles, RE, D'Sa, D, Gracin, S, Lechuga-Ballesteros, D, Reid, JP, Finlay, WH & Vehring, R, 2019, '[Multi-Solvent Microdroplet Evaporation: Modeling and Measurement of Spray-Drying Kinetics with Inhalable Pharmaceuticals](#)'. *Pharmaceutical Research*, vol 36.
- Gregson, F, Ordoubadi, M, Miles, R, Haddrell, A, Barona, D, Lewis, D, Church, T, Vehring, R & Reid, J, 2019, '[Studies of Competing Evaporation Rates of Multiple Volatile Components from a Single Binary-Component Aerosol Droplet](#)'. *Physical Chemistry Chemical Physics*, vol 21., pp. 9709-9719
- Su, Miles, R, Li, Reid, J & Xu, J, 2018, '[The evaporation kinetics of pure water droplets at varying drying rates and the use of evaporation rates to infer the gas phase relative humidity](#)'. *Physical Chemistry Chemical Physics*, vol 20., pp. 23453-23466
- Marsh, A, Miles, R, Rovelli, G, Cowling, A, Nandy, L, Dutcher, C & Reid, J, 2017, '[Influence of organic compound functionality on aerosol hygroscopicity: dicarboxylic acids, alkyl-substituents, sugars and amino acids](#)'. *Atmospheric Chemistry and Physics*, vol 17., pp. 5583-5599
- Rovelli, G, Miles, R, Reid, J & Clegg, SL, 2017, '[Hygroscopic properties of aminium sulfate aerosols](#)'. *Atmospheric Chemistry and Physics*, vol 17., pp. 4369-4385
- Haddrell, A, Miles, R, Bzdek, B, Reid, J, Hopkins, R & Walker, J, 2017, '[Coalescence Sampling and Analysis of Aerosols using Aerosol Optical Tweezers](#)'. *Analytical Chemistry*, vol 89., pp. 2345-2352
- Marshall, FH, Miles, REH, Song, YC, Ohm, PB, Power, RM, Reid, JP & Dutcher, C, 2016, '[Diffusion and reactivity in ultraviscous aerosol and the correlation with particle viscosity](#)'. *Chemical Science*, vol 7., pp. 1298-1308
- Rovelli, G, Miles, REH, Reid, JP & Clegg, SL, 2016, '[Accurate Measurements of Aerosol Hygroscopic Growth Over a Wide Range in Relative Humidity](#)'. *Journal of Physical Chemistry A*, vol 120., pp. 4376-4388

- Miles, REH, Davies, JF & Reid, JP, 2016, ['The influence of the surface composition of mixed monolayer films on the evaporation coefficient of water'](#). *Physical Chemistry Chemical Physics*, vol 18., pp. 19847-19858

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