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## Summary

The general theme of Professor Mann's research is concerned with the chemical synthesis, characterization and emergence of complex forms of organized matter. His current research activities include: biomimetic materials chemistry, synthesis and self-assembly of nanoscale objects and functional bionanomaterials, complexity and emergent behaviour in hybrid nanostructures, solvent-free liquid proteins, and protocell design and construction.

## Keywords

- Synthetic Cellularity
- Protocells
- Origin of Life
- Nanotectonics
- Bionanochemistry
- Inorganic Morphosynthesis
- Biomineralization

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## Links

-  [Personal web page](#)
-  [Centre for Protolife Research](#)
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## Recent publications

- Wang, L, Lin, Y, Zhou, Y, Xie, H, Song, J, Li, M, Huang, Y, Huang, X & Mann, S, 2019, '[Autonomic Behaviors in Lipase-Active Oil Droplets](#)'. *Angewandte Chemie - International Edition*, vol 58., pp. 1067-1071
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- Wu, H, Zhang, Z, Mann, S & Briscoe, WH, 2019, '[Hierarchical microfibrillar gels from evaporation-induced anisotropic self-assembly of in situ-generated nanocrystals](#)'. *Journal of Colloid and Interface Science*, vol 558., pp. 78-84
- Martin, N, Tian, L, Spencer, D, Coutable-Pennarun, A, Anderson, JL & Mann, S, 2019, '[Photoswitchable Phase Separation and Oligonucleotide Trafficking in DNA Coacervate Microdroplets](#)'. *Angewandte Chemie - International Edition*, vol 58., pp. 14594-14598
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- Booth, R, Qiao, Y, Li, M & Mann, S, 2019, '[Spatial Positioning and Chemical Coupling in Coacervate-in-Proteinosome Protocells](#)'. *Angewandte Chemie - International Edition*.
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- Gobbo, P, Patil, AJ, Li, M, Harniman, R, Briscoe, WH & Mann, S, 2018, '[Programmed assembly of synthetic protocells into thermoresponsive prototissues](#)'. *Nature Materials*, vol 17., pp. 1145-1153

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