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Area of research

Nanophysics and Functional Nanomaterials

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Summary

Memberships

Organisations

[Bristol Doctoral College](#)

[Interface Analysis Centre](#)

[School of Physics](#)

Physics staff

- [Physics academic staff](#)

Research groups

- [Nanophotonics and Nanophysics](#)

Research interests

- [Scanning Probe Microscopy](#)
- [Biophysics of glycoproteins](#)

Recent publications

- Gazze, SA, Saccone, L, Smits, MM, Duran, AL, Leake, JR, Banwart, SA, Ragnarsdottir, KV & McMaster, TJ, 2013, '[Nanoscale Observations of Extracellular Polymeric Substances Deposition on Phyllosilicates by an Ectomycorrhizal Fungus](#)'. *Geomicrobiology Journal*, vol 30., pp. 721-730
- Berry, M, Corfield, AP & McMaster, TJ, 2013, '[Mucins: a dynamic biology](#)'. *Soft Matter*, vol 9., pp. 1740-1743
- Baos, SC, Phillips, DB, Wildling, L, McMaster, TJ & Berry, MS, 2012, '[Distribution of Sialic Acids on Mucins and Gels: A Defense Mechanism](#)'. *Biophysical Journal*, vol 102., pp. 176-184
- Loredana, S, Andrea, G, Adele, D, Jonathan, L, Steven, B, Mark, S, Vala, R & McMaster, T, 2011, '[High resolution characterization of ectomycorrhizal fungal-mineral interactions in axenic microcosm experiments](#)'. *Biogeochemistry*.
- Haward, S, Shewry, P, Marsh, J, Miles, M & McMaster, T, 2011, '[Force Spectroscopy of an Elastic Peptide: Effect of D\(2\)O and Temperature on Persistence Length](#)'. *Microscopy Research and Technique*, vol 74., pp. 170 - 176

- Simon, H, Mark, S, Vala, R, Jonathan, L, Steven, B & McMaster, T, 2011, '[In situ atomic force microscopy measurements of biotite basal plane reactivity in the presence of oxalic acid](#)'. *Geochimica et Cosmochimica Acta*, vol 75., pp. 6870 - 6881
- Haward, S, Shewry, P, Miles, M & McMaster, T, 2010, '[Direct Real-Time Imaging of Protein Adsorption onto Hydrophilic and Hydrophobic Surfaces](#)'. *Biopolymers*, vol 93., pp. 74 - 84
- Saccone, L, Gazze, S, Ragnarsdottir, K, Leake, J, Duran, A, Hallam, K & McMaster, T, 2009, '[Paxillus involutus hyphae: Imaging their structure and interaction with mineral surfaces using AFM](#)'. *Geochimica et Cosmochimica Acta*, vol 73., pp. A1140 - A1140
- Andrianaki, M, Ragnarsdottir, K, Hallam, K & McMaster, T, 2009, '[Investigation of the light-induced degradation of glutamic acid and stabilisation of glucose on the surface of iron-bearing minerals](#)'. *Geochimica et Cosmochimica Acta*, vol 73., pp. A45 - A45
- Goritschnig, B, Hallam, K, McMaster, T & Ragnarsdottir, K, 2009, '[Adsorption and degradation of progesterone onto muscovite mica](#)'. in: *MRS Spring Meeting, San Francisco, USA*.

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