Simon Redfern

Brief history of employment

No.	Organisation	Period of employment	Designation
1	NTU Singapore	2019 - Present	Professor of Earth Sciences, Dean of the College of Science
2	University of Cambridge, U.K.	1994 - 2019	Professor of Mineral Physics
3	University of Manchester, U.K.	1989 - 1993	Lecturer in Geochemical Spectroscopy

Full title of research papers/ patents published

No.	Title
1	Geological applications of synchrotron radiation CMB Henderson, G Cressey, SAT Redfern Radiation Physics and Chemistry 45 (3), 459-481
2	Route to high-energy density polymeric nitrogen t-N via He−N compounds Y Li, X Feng, H Liu, J Hao, SAT Redfern, W Lei, D Liu, Y Ma Nature communications 9 (1), 1-7
3	The kinetics of dehydration in Ca-montmorillonite: an in situ X-ray diffraction study HJ Bray, SAT Redfern, SM Clark Mineralogical Magazine 62 (5), 647-656
4	An investigation of the kinetics of CO2 uptake by a synthetic calcium based sorbent W Liu, JS Dennis, DS Sultan, SAT Redfern, SA Scott Chemical Engineering Science 69 (1), 644-658
5	High-temperature structural phase transitions in perovskite SAT Redfern Journal of Physics: Condensed Matter 8 (43), 8267
6	Determination of olivine cooling rates from metal-cation ordering SAT Redfern, CMB Henderson, BJ Wood, RJ Harrison, KS Knight Nature 381 (6581), 407-409
7	High-pressure behaviour and equation of state of calcite, CaCO3 SAT Redfern, RJ Angel Contributions to Mineralogy and Petrology 134 (1), 102-106

No.	Title
8	Pressure promoted low-temperature melting of metal–organic frameworks RN Widmer, GI Lampronti, S Anzellini, R Gaillac, S Farsang, C Zhou, ... Nature materials 18 (4), 370
9	Structural dynamics of a metal–organic framework induced by CO 2 migration in its non-uniform porous structure P Zhao, H Fang, S Mukhopadhyay, A Li, S Rudić, IJ McPherson, CC Tang, ... Nature communications 10 (1), 1-8
10	Ab initio simulations of cation ordering in oxides: application to spinel MC Warren, MT Dove, SAT Redfern Journal of Physics: Condensed Matter 12 (4), L43

https://scholar.google.co.uk/citations?user=KrkLtMsAAAAJ

Other relevant information

2017–19 National 1000-Talents Short-Term Foreign Award (China)

2012 Schlumberger Medal of the Mineralogical Society of Great Britain

2001–02 Leverhulme Fellowship

1999 Fellow of the Mineralogical Society of America.

1997 European Mineralogical Union Medal for Research Excellence.

1994 Max Hey Medal of the Mineralogical Society.

1993 Philip's Award for Physical Crystallography of the BCA.

1985 Harkness Scholarship

British Science Association Media Fellow (working with BBC) 2013

Fellow of the Geological Society of London,

Fellow of the Mineralogical Society of Great Britain and Ireland,

Fellow of the Mineralogical Society of America