

References

- Accusizer (2003) *Accusizer AD User Manual*. PSSNicomp, Santa Barbara, CA.
- Adamiec, G. and Aitken, M.J. (1998) Dose-rate conversion factors: new data. *Ancient TL*, 16, 37-50.
- Ahnert, F. (1998) *Introduction to Geomorphology*. Arnold, London.
- Aitken, M.J. (1985) *Thermoluminescence Dating*. Academic Press, London.
- Allen, J.R.L. (1970) *Physical Processes of Sedimentation*. George Allen & Unwin, London.
- Allen, J.R.L. (1982) Late Pleistocene (Devensian) glaciofluvial outwash at Banc-y-Warren, near Cardigan (west Wales). *Geological Journal*, 17, 31-47.
- Allen, J.R.L. (1999) Geological impacts on coastal wetland landscapes: Some general effects of sediment autocompaction in the Holocene of northwest Europe. *The Holocene*, 9, 1, 1-12.
- Allen, J.R.L. (2000a) Gold Cliff island: geological and sedimentological background. In: Bell, M.; Caseldine, A. and Neumann, H. (eds) *Prehistoric Intertidal Archaeology in the Welsh Severn Estuary*. C.B.A. Research Report 120, Council for British Archaeology, York, pp 12-18.
- Allen, J.R.L. (2000b) Morphodynamics of Holocene saltmarshes: a review sketch from the Atlantic and Southern North Sea coasts of Europe. *Quaternary Science Reviews*, 19, 12, 1155-1231.
- Allen, J.R.L. (2001a) Sea level, salt marsh and fen: shaping the Severn Estuary Levels in the later Quaternary (Ipswichian – Holocene). In: Rippon, S. (ed) *Archaeology in the Severn Estuary 11*. S.L.E.R.C., Exeter, pp. 13-34.
- Allen, J.R.L. (2001b) Late Quaternary stratigraphy in the Gwent Levels (southeast Wales): the subsurface evidence. *Proceedings of the Geologists' Association*, 112, 289-315.
- Allen, J.R.L. (2002) Interglacial high-tide coasts in the Bristol Channel and Severn Estuary, southwest Britain: a comparison for the Ipswichian and Holocene. *Journal of Quaternary Science*, 17, 1, 69-76.
- Allen, J.R.L. and Rippon, S.J. (1997) Iron Age to Early Modern Activity and Palaeochannels at Magor Pill, Gwent: an Exercise in Lowland Coastal-Zone Geoarchaeology. *Antiquaries Journal*, 77, 327-370.

- Allen, J.R.L. and Haslett, S.K. (2002) Buried salt-marsh and tide-level cycles in the mid-Holocene of the Caldicot Level (Gwent), South Wales, UK. *The Holocene*, 12, 3, 303-324.
- Allen, J.R.L.; Haslett, S.K. and Rinkel, B.E. (2006) Holocene tidal palaeochannels, Severn Estuary Levels, UK: a search for granulometric and foraminiferal criteria. *Proceedings of the Geologists' Association*, 117, 4, 329-344.
- Allen, J.R.M.; Scourse, J.D.; Hall, A.R. and Coope, G.R. (2009) Palaeoenvironmental context of the Late-glacial woolly mammoth (*Mammuthus primigenius*) discoveries at Conover, Shropshire, UK. *Geological Journal*, 44, 414-446.
- Alonso-Zarza, A.M. (2003) Palaeoenvironmental significance of palustrine carbonates and calcretes in the geological record. *Earth Science Reviews*, 60, 261-298.
- Alve, E. and Murray, J.W. (1999) Marginal marine environments of the Skagerrak and Kattegat: a baseline study of living (stained) benthic foraminiferal ecology. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 146, 171-193.
- Andersen, S.T. (1986) Palaeoecological studies of terrestrial soils. In: Berglund, B.E. (ed) *Handbook of Holocene Palaeoecology and Palaeohydrology*. John Wiley & Sons Ltd., Chichester, pp. 165-177.
- Andrews, J.T.; Bowen, D.Q. and Kidson, C. (1979) Amino acid ratios and the correlation of raised beach deposits in southwest England and Wales. *Nature*, 281, 556-558.
- Andrews, J.T.; Gilbertson, D.D. and Hawkins, A.B. (1984) The Pleistocene succession of the Severn Estuary: a revised model based on amino acid racemization studies. *Journal of the Geological Society, London*, 141, 967-974.
- Antoine, P.; Limondin Lozoueta, N.; Chausse, C.; Lautridou, J.-P.; Pastre, J.-F.; August, P.; Bahain, J.-J.; Falguères, C. and Galeh, B. (2007) Pleistocene fluvial terraces from northern France (Seine, Yonne, Somme): synthesis, and new results from interglacial deposits. *Quaternary Science Reviews*, 26, 2701-2723.
- ApSimon, A.M. and Donovan, D.T. (1956) Marine Pleistocene deposits in the Vale of Gordano, Somerset. *Proceedings of the University of Bristol Speleological Society*, 7, 130-136.

- Ashton, N.; Lewis, S.G.; Parfitt, S.A.; Penkman, K.E.H. and Coope, G.R. (2008) New evidence for the complex climate change in MIS 11 from Hoxne, Suffolk, UK. *Quaternary Science Reviews*, 27, 652-668.
- Athersuch, J.; Horne, D.J. and Whittaker, J.E. (1989) *Marine and Brackish-water Ostracods*. Synopses of the British Fauna (New Series) N°43. The Linnaean Society of London and the Estuarine and Brackish-Water Sciences Association, E.J. Brill, London.
- Avery, B.W. (1973) Soil Classification in the Soil Survey of England and Wales. *Journal of Soil Science*, 24, 3, 324-337.
- Avery, B.W. and Bascomb, C.L. (eds) (1982) *Soil Survey Laboratory Methods*. Soil Survey Technical Monograph N° 6, Lawes Agricultural Trust (Soil Survey of England and Wales), Harpenden.
- Baker, A. and Simms, M.J. (1998) Active deposition of calcareous tufa in Wessex, UK, and its implications for the 'late-Holocene tufa decline'. *The Holocene*, 8, 3, 359-365.
- Baker, C.A. and Bateman, M.D. (2010) The residual coversand deposits of central Isle Of Thanet, Kent, UK. *Quaternary Newsletter*, 122, 16-34.
- Balescu, S.; Lamothe, M. and Lautridou, J.-P. (1997) Luminescence evidence for two Middle Pleistocene interglacial events at Tourville, northwestern France. *Boreas*, 26, 61 -72.
- Ball, D.F. (1964) Loss-on ignition as an estimate of organic matter and organic carbon in non-calcareous soils. *Journal of Soil Science*, 15, 1, 84-92.
- Ballantyne, C.K. (2002) A general model of paraglacial landscape response. *The Holocene*, 12, 3, 371-376.
- Ballantyne, C.K. and Harris, C. (1994) *The Periglaciation of Great Britain*. Cambridge University Press, Cambridge.
- Ballantyne, C.K. and Wittington, G. (1999) Late Holocene floodplain incision and alluvial fan formation in the central Grampian Highlands, Scotland: chronology, environment and implications. *Journal of Quaternary Science*, 14, 7, 651-671.
- Banarjee, D.; Murray, A.S.; Bøtter-Jensen, L. and Lang, A. (2001) Equivalent dose estimation using a single aliquot of polymineral fine grains. *Radiation Measurements*, 33, 73-94.

- Bard, E.; Antonioli, F. and Silenzi, S. (2002) Sea-level during the penultimate interglacial period based on a submerged stalgmite from Argentarola Cave (Italy). *Earth and Planetary Science Letters*, 196, 135-146.
- Barry, R.G. (1997) Palaeoclimatology: climate system processes and the geomorphic record. In: Stoddart, D.R. (ed) *Process and form in geomorphology*. Routledge, London, pp. 187-214.
- Barton, C.M.; Strange, P.J.; Royle, K.R. and Farrant, A.R. (2002) Geology of the Bristol district – a brief explanation of the geological map. *Sheet Explanation of the British Geological Survey*. 1:50 000 Sheet 264 Bristol (England and Wales). British Geological Survey, Keyworth, Nottingham.
- Bascom, C.L. (1982) Physical and Chemical Analyses of <2 mm Samples. In: Avery, B.W. and Bascomb, C.L. (eds) *Soil Survey Laboratory Methods*. Soil Survey Technical Monograph N° 6, Lawes Agricultural Trust (Soil Survey of England and Wales), Harpenden, pp. 14-19.
- Bateman, M. D.; Buckland, P. C.; Whyte, M. A.; Ashurst, R. A.; Boulter, C. and Panagiotakopulu, E. (2011) Re-evaluation of the Last Glacial Maximum typesite at Dimlington, UK. *Boreas*, 40, 573–584.
- Bates, M.R.; Bates, C. R.; Gibbard, P.L.; Macphail, R.I.; Owen, F.J.; Parfitt, S.A.; Preece, R.C.; Roberts, M.B.; Robinson, J.E.; Whittaker, J.E. and Wilkinson, K.N. (2000) Late Middle Pleistocene deposits at Norton Farm on the West Sussex coastal plain, southern England. *Journal of Quaternary Science*, 15, 1, 61–89.
- Bates, M.R.; Keen, D.H.; Whittaker, J.E.; Merry, J.S. and Wenban-Smith, F.F. (2002) Middle Pleistocene molluscan and ostracod faunas from Allhallows, Kent, UK. *Proceedings of the Geologists' Association*, 113, 223-236.
- Bates, M.R.; Keen, D.H. and Lautridou, J-P. (2003) Pleistocene marine and periglacial deposits of the English Channel. *Journal of Quaternary Science*, 18, 3-4, 319-337.
- Bates, M.R. and Wenban-Smith, F. (2006) Pleistocene history and Palaeolithic archaeology of the river Avon in the light of new evidence from Twyford House, Shirehampton. In: Hunt, C.O. and Haslett, S.K. (eds) *The Quaternary of Somerset: Field Guide*. Quaternary Research Association, London, pp. 154-172.

- Bates, M.R.; Bates C.R. and Whittaker, J.E (2007) Mixed Method Approaches to the Investigation and Mapping of Buried Quaternary Deposits: Examples from Southern England. *Archaeological Prospection*, 14, 104-129.
- Bates, M.R.; Briant, R.M.; Rhodes, E.J.; Schwenninger, J.-L. and Whittaker, J.E. (2010) A new chronological framework for Middle and Upper Pleistocene landscape evolution in the Sussex/Hampshire Coastal Corridor, UK. *Proceedings of the Geologists Association*, 121, 369-392.
- Beaty, C.B. (1990) Anatomy of a White Mountains Debris Flow – The Making of an Alluvial Fan. In: Rachocki, A.H. and Church, M. (eds) *Alluvial Fans: A Field Approach*. John Wiley & Sons Ltd., Chichester, pp. 69-89.
- Beedham, G.E. (1972) *Identification of the British Mollusca*. Hulton Educational Publications Ltd., Amersham.
- Bell, M.; Caseldine, A. and Neumann, H. (2000) *Prehistoric Intertidal Archaeology in the Welsh Severn Estuary*. C.B.A. Research Report 120, Council for British Archaeology, York.
- Bell, M.; Allen, J.R.L.; Buckley, S.; Dark, P. and Nayling, N. (2003) Mesolithic to Neolithic coastal environmental change: excavations at Goldcliff East, 2003 and research at Redcliff. In: Davies, P. (ed) *Archaeology in the Severn Estuary 14*, S.L.E.R.C., Bath Spa, pp. 1-26.
- Bengtsson, L. and Enell, M. (1986) Chemical analysis. In: Berglund, B.E. (ed) *Handbook of Holocene Palaeoecology and Palaeohydrology*. John Wiley & Sons Ltd., Chichester, pp. 423-451.
- Benn, D.I. and Ballantyne, C.K. (1993) The description and representation of particle shape. *Earth Surface Processes and Landforms*, 18, 665-672.
- Benn, D.I. and Ballantyne, C.K. (1994) Reconstructing the transport history of glacial sediments – a new approach based on the co-variance of clast form indices. *Sedimentary Geology*, 91, 1-4, 215-227.
- Benn, D.I. and Evans, D.J.A. (1998) *Glaciers and Glaciation*. Arnold, London.
- Bennett, M.R. and Glasser, N.F. (1996) *Glacial Geology: Ice Sheets and Landforms*. John Wiley & Sons Ltd., Chichester.
- Bennett, M.R.; Huddart, D.; Hambrey, M.J. and Ghienne, J.F. (1996) Moraine development at the high-Arctic valley glacier Petersenbreen, Svalbard. *Geografiska Annaler*, 78A, 4, 209-222.

- Bennett, M.R.; Hambrey, M.J. and Huddart, D. (1997) Modification of clast shape in high-arctic glacial environments, *Journal of Sedimentary Research A: Sedimentary Petrology and Processes*, 67, 3, 550-559.
- Berger, W.H. (2008) Sea level in the late Quaternary: patterns of variation and implications. *International Journal of Earth Science*, 97, 1143-1150.
- Berglund, B.E. (1986) Palaeoecological reference areas and reference sites. In: Berglund, B.E. (ed) *Handbook of Holocene Palaeoecology and Palaeohydrology*. John Wiley & Sons Ltd., Chichester, pp. 111-126.
- Berglund, B.E. and Ralska-Jasiewiczowa, M. (1986) Pollen analysis and pollen diagrams. In: Berglund, B.E. (ed) *Handbook of Holocene Palaeoecology and Palaeohydrology*. John Wiley & Sons Ltd., Chichester, pp. 455-484.
- Bertran, P.; Héту, B.; Texier, J.-P. and Van Steijn, H. (1997) Fabric characteristics of subaerial slope deposits. *Sedimentology*, 44, 1-16.
- Beuselinck, L.; Govers, G.; Poesen, J.; Degraer, G. and Froyen, L. (1998) Grain-size analysis by laser diffractometry: comparison with the sieve-pipette method. *Catena*, 32, 193-208.
- Bird, M.; Aycliffe, L.; Fifield, L.; Turney, C.; Cresswell, R.; Barrows, T. and David, B. (1999) Radiocarbon dating of “old” charcoal using a wet oxidation, stepped-combustion procedure. *Radiocarbon*, 41, 2, 127-140.
- Birks, H.H. (2004) Plant Macrofossil Introduction. In: Elias, S.A. (ed) *Encyclopedia of Quaternary Science*. Elsevier, London, pp. 2266-2288.
- Birks, H.J.B. (1986) Late-Quaternary biotic changes in terrestrial and lacustrine environments, with particular reference to north-west Europe. In: Berglund, B.E. (ed) *Handbook of Holocene Palaeoecology and Palaeohydrology*. John Wiley & Sons Ltd., Chichester, pp. 3-65.
- Birks, H.J.B. and Birks, H.H. (1980) *Quaternary Palaeoecology*. Edward Arnold, London.
- Birks, H.H. and Birks, H.J.B. (2006) Multi-proxy studies in palaeolimnology. *Vegetation History and Archaeobotany*, 15, 235-251.
- Blair, T.C. (1999) Sedimentary processes and facies of the waterlaid Anvil Spring Canyon alluvial fan, Death Valley, California. *Sedimentology*, 46, 913-940.
- Blott, S.J. (2000) *Gradistat Version 7.0. A Grain Size Distribution and Statistics Package for the Analysis of Unconsolidated Sediments By Sieving or Laser Granulometer*. Kenneth Pye Associates Ltd., Crowthorne, Berkshire.

- Blott, S.J. and Pye, K. (2008) Particle shape: a review and new methods of characterization and classification. *Sedimentology*, 55, 31-63.
- Boardman, J. (ed) (1987) *Periglacial processes and landforms in Britain and Ireland*. Cambridge University Press, Cambridge.
- Bohncke, S.J.P.; Bos, J.A.A.; Engels, S.; Heiri, O. and Kasse, C. (2008) Rapid climatic events as recorded in Middle Weichselian thermokarst lake sediments. *Quaternary Science Reviews*, 27, 162-174.
- Bond, G.C.; Broecker, W.; Johnsen, S.; McManus, J.; Labeyrie, L.; Jouzel, J. and Bonani, G. (1993) Correlations between climate records from North Atlantic sediments and Greenland ice. *Nature*, 365, 143-147.
- Bond, G.; Showers, W.; Cheseley, M.; Lotti, R.; Almasi, P.; deMenocal, P.; Priore, P.; Cullen, H.; Hajdas, I. and Bonani, G. (1997) A Pervasive Millennial-Scale Cycle in North Atlantic Holocene and Glacial Climates. *Science*, 278, 5341, 1257-1266.
- Boomer, I. (2002) Environmental Applications of Marine and Freshwater Ostracoda. In: Haslett, S.K. (ed) *Quaternary Environmental Micropalaeontology*. Arnold, London, pp. 115-138.
- Bøtter-Jensen, L. (1988) The automated Riso TL dating reader system. *Nuclear Track and Radiation Measurements*, 14, 177-180.
- Bøtter-Jensen, L. (1997) Luminescence techniques: instrumentation and methods. *Radiation Measurements*, 27, 749-768.
- Bøtter-Jensen, L.; Bulur, E.; Duller, G.A.T. and Murray, A.S. (2000) Advances in luminescence instrument systems. *Radiation Measurements*, 32, 523-528.
- Boulton, G. and Hagdorn, M. (2006) Glaciology of the British Isles Ice Sheet during the last glacial cycle: form, flow, streams and lobes. *Quaternary Science Reviews*, 25, 3359-3390.
- Bowen, D.Q. (1973a) Pleistocene of the Irish Sea. *Proceedings of the Geologists' Association*, 84, 3, 249-271.
- Bowen, D.Q. (1973b) The Pleistocene history of Wales and the borderlands. *Geological Journal*, 8, 207-224.
- Bowen, D.Q. (1978) *Quaternary Geology*. Pergamon Press, Oxford.

- Bowen, D.Q. (1991) Time and space in the glacial sediment systems of the British Isles. In: Ehlers, J.; Gibbard, P.L. and Rose, J. (eds) *Glacial deposits in Great Britain and Ireland*. Balkema, Rotterdam, pp. 3-13.
- Bowen, D.Q. (1999a) On the correlation and classification of Quaternary deposits and land-sea correlations. In: Bowen, D.Q. (ed) *A revised correlation of Quaternary deposits in the British Isles*. The Geological Society, Bath, pp. 1-9.
- Bowen, D.Q. (1999b) Wales. In: Bowen, D.Q. (ed) *A revised correlation of Quaternary deposits in the British Isles*. The Geological Society, Bath, pp. 79-90.
- Bowen, D.Q. (2005) South Wales. In: Lewis, C.A. and Richards, A.E. (eds) *The glaciations of Wales and adjacent areas*. Logaston Press, Logaston, Herefordshire, pp. 145-162.
- Bowen, D.Q.; Sykes, G.A.; Miller, G.H.; Andrews, J.T.; Brew, J.S. and Hare, P.E. (1985) Amino Acid Geochronology of Raised Beaches in South West Britain. *Quaternary Science Reviews*, 4, 4, 279-318.
- Bowen, D.Q.; Rose, J.; McCabe, A.M. and Sutherland, D.G. (1986) Correlation of Quaternary glaciations in England, Ireland, Scotland and Wales. *Quaternary Science Reviews*, 5, 29-340.
- Bowen, D.Q.; Hughes, S.; Sykes, G.A. and Miller, G.H. (1989) Land-sea correlations in the Pleistocene based on isoleucine epimerization in non-marine molluscs. *Nature*, 340, 49-51.
- Bowen, D.Q.; Phillips, F.M.; McCabe, A.M.; Knutz, P.C. and Sykes, G.A. (2002) New data for the Last Glacial Maximum in Great Britain and Ireland. *Quaternary Science Reviews*, 21, 89-101.
- Bowen, D.Q. and Gibbard, P.L. (2007) The Quaternary is here to stay. *Journal of Quaternary Science*, 22, 1, 3-8.
- Bradwell, T.; Stoker, M.S.; Gollledge, N.R.; Wilson, C.K.; Merritt, J.W.; Long, D.; Everest, J.D.; Hestvik, O.B.; Stevenson, A.G.; Hubbard, A. L.; Finlayson, A.G. and Mathers, H.E. (2008) The northern sector of the last British Ice Sheet: Maximum extent and demise. *Earth Science Reviews*, 88, 207–226.
- Brady, N.C. and Weil, R.R. (2004) *Elements of the Nature and Properties of Soils* (2nd ed). Prentice Hall, New Jersey.

- Brayshaw, D. and Hassan, M.A. (2009) Debris flow initiation and sediment recharge in gullies. *Geomorphology*, 109, 122-131.
- Brewer, P.A. and Lewin, J. (1998) Planform cyclicality in an unstable reach: complex fluvial response to environmental change. *Earth Surface Processes and Landforms*, 23, 989-1008.
- Briant, R.M.; Coope, G.R.; Preece, R.C.; Keen, D.H.; Boreham, S.; Griffiths, H.I.; Seddon, M.B. and Gibbard, P.L. (2004) Fluvial system response to Late Devensian (Weichselian) aridity, Baston, Lincolnshire, England. *Journal of Quaternary Science*, 19, 5, 479-495.
- Briant, R.M. and Bateman, M.D. (2009) Luminescence dating indicates radiocarbon underestimation in late Pleistocene fluvial deposits from eastern England. *Journal of Quaternary Science*, 24, 8, 916-927.
- Bridgland, D.R. (1986) *Clast Lithological Analysis*. Quaternary Research Association Technical Guide No. 3. Quaternary Research Association, Cambridge.
- Bridgland, D.R. (1994) *Quaternary of the Thames*. Geological Conservation Review Series, N° 7, Chapman & Hall, London.
- Bridgland, D.R. (2000) River terrace systems in north-west Europe: an archive of environmental change, uplift and early human occupation. *Quaternary Science Reviews*, 19, 1293-1303.
- Bridgland, D.R. (2010) The record from British Quaternary river systems within the context of global fluvial archives. *Journal of Quaternary Science*, 25, 4, 433-446.
- Bridgland, D.; Maddy, D. and Bates, M. (2004) River terrace sequences: templates for Quaternary geochronology and marine-terrestrial correlation. *Journal of Quaternary Science*, 19, 2, 203-218.
- Bridgland, D. and Westaway, R. (2008) Climatically controlled river terrace staircases: A worldwide Quaternary phenomenon. *Geomorphology*, 98, 285-315.
- Bridgland, D.R. and Schreve, D.C. (2009) Implications of new Quaternary uplift models for correlation between Middle and Upper Thames terrace sequences, UK. *Global and Planetary Change*, 68, 346-356.
- Briggs, D. (1977) *Sediments*. Butterworths, London.

- Briggs, D.J.; Gilbertson, D.D. and Hawkins, A.B. (1991) The raised beach and sub-beach deposits at Swallow Cliff, Middle Hope. *Proceedings of the Bristol Natural History Society*, 51, 63-71.
- British Geological Survey (2004) *Bristol: England and Wales Sheet 264: Solid and Drift Geology 1:50 000*. British Geological Survey, Keyworth, Nottingham.
- Brown, A.G. (1996) Floodplain Palaeoenvironments. In: Anderson, M.G.; Walling, D.E. and Bates, P.D. (eds) *Floodplain processes*. John Wiley & Sons Ltd., Chichester, pp. 95-138.
- Bryant, I.D. (1983) The utilization of Arctic river analogue studies in the interpretation of periglacial river sediments from southern Britain. In: Gregory, K.G. (ed) *Background to Palaeohydrology*. John Wiley & Sons Ltd., Chichester, pp. 413-431.
- Bryant, I.D.; Holyoak, D.T. and Moseley, K.A. (1983) Late Pleistocene deposits at Brimpton, Berkshire, England. *Proceedings of the Geologists' Association*, 94, 4, 321-343.
- Bryant, J.A. and Stewart, N.F. (2002) Order Charales. In: John, D.M.; Whitton, B.A. and Brook, A.J. (eds) *The Freshwater Algal Flora of the British Isles*. Cambridge University Press, Cambridge, pp. 593-605.
- Bull, W.B. (1962) Relation of textural (CM) patterns to deposition environment of alluvial fan deposits. *Journal of Sedimentary Petrology*, 32, 211-216.
- Bull, W.B. (1964) Geomorphology of Segmented Alluvial Fans in Western Fresno County, California. United States Geological Survey Professional Paper 352-E.
- Bundt, K. and Abt, S.R. (2001) Sampling Surface and Subsurface Particle-Size Distributions in Wadable Gravel- and Cobble-Bed Streams for Analyses in Sediment Transport, Hydraulics, and Streambed Monitoring. General Technical Report RMRS-GTR-74, United States Department of Agriculture.
- Busschers, F.S.; Kasse, C.; van Balen, R.T.; Vandenberghe, J.; Cohen, K.M.; Weerts, H.J.T.; Wallinga, J.; Johns, C.; Cleveringa, P. and Bunnik, F.P.M. (2007) Late Pleistocene evolution of the Rhine-Meuse system in the southern North Sea basin: imprints of climate change, sea-level oscillation and glacio-isostasy. *Quaternary Science Reviews*, 26, 3216-3248.
- Cailleux, A. (1947) L'indice d'émoussé: Définition et première application. *Compte-rendu sommaire de la Société Géologique de France*, 13, 250-252.

- Campbell, S. and Bowen, D.Q. (1989) *Geological Conservation Review: The Quaternary of Wales*. Nature Conservancy Council, Peterborough.
- Campbell, S.; Andrews, J.T. and Shakesby, R.A. (1982) Amino acid evidence for Devensian ice, west Gower, South Wales. *Nature*, 300, 249-251.
- Campbell, S.; Scourse, J.D.; Hunt, C.O.; Keen, D.H. and Stephens, N. (1998) *Geological Conservation Review: The Quaternary of South West England*. Geological Conservation Review, Volume 14, Joint Nature Conservation Committee, Chapman and Hall, London.
- Campbell, S.; Hunt, C.O.; Scourse, J.D.; Keen, D.H. and Croot, D.G. (1999) Southwest England. In: Bowen, D.Q. (ed) *A revised correlation of Quaternary deposits in the British Isles*. The Geological Society, Bath, pp. 66-78.
- Candy, I. (2009) Terrestrial and freshwater carbonates in Hoxnian interglacial deposits, UK: micromorphology, stable isotopic composition and palaeoenvironmental significance. *Proceedings of the Geologists' Association*, 120, 49-57.
- Candy, I.; Rose, J. and Lee, J. (2006) A seasonally 'dry' interglacial climate in eastern England during the early Middle Pleistocene: palaeopedological and stable isotope evidence from Pakefield, UK. *Boreas*, 35, 255-265.
- Candy, I. and Schreve, D. (2007) Land-sea correlation of Middle Pleistocene temperate sub-stages using high-precision uranium-series dating of tufa deposits from southern England. *Quaternary Science Reviews*, 26, 1223-1235.
- Case, D.J. (1993) Evidence for temperate soil development during the Early Devensian in Gower, South Wales. *Geological Magazine*, 130, 1, 113-115.
- Catt, J.A. (1989) Relict Properties in Soils of the Central and North-West European Temperate Region. In: Bronger, A. and Catt, J.A. (eds) *Palaeopedology: Nature and Application of Palaeosols*. Catena Supplement 16, Catena, Cremlingen-Destedt, pp. 41-58.
- Catt, J.A. (1990) Paleopedology Manual. *Quaternary International*, 6, 1-95.
- Chappell, A.; Heritage, G.L.; Fuller, I.C.; Large, A.R.G. and Milan, D.J. (2003) Geostatistical analysis of ground-survey elevation data to elucidate spatial and temporal river channel change. *Earth Surface Processes and Landforms*, 28, 349-370.

- Chiverrell, R.C. and Thomas, G.S.P. (2010) Extent and timing of the Last Glacial Maximum (LGM) in Britain and Ireland: a review. *Journal of Quaternary Science*, 25, 4, 535-549.
- Church, M. (1988) Floods in cold climates. In: Baker, V.R.; Kochel, R.C. and Patton, P.C. (eds) *Flood Geomorphology*. John Wiley & Sons, Chichester, pp. 205-229.
- Clark, C.D.; Gibbard, P.L. and Rose, J. (2003) Pleistocene glacial limits in England, Scotland and Wales. In: Ehlers, J. and Gibbard, P.L. (eds) *Quaternary Glaciations – Extent and Chronology, Part I: Europe*. Elsevier, Amsterdam, pp. 47-82.
- Clark, C.D.; Evans, D.J.A.; Khatwa, A.; Bradwell, T.; Jordan, C.J.; Marsh, S.H.; Mitchell, W.A. and Bateman, M.D. (2004) Map and GIS database of glacial landforms and features related to the last British Ice Sheet. *Boreas*, 33, 359-375.
- Clark, C.D.; Hughes, A.L.C.; Greenwood, S.L.; Jordan, C. and Serjup, H.P. (2010) Pattern and timing of retreat of the last British-Irish Ice Sheet. *Quaternary Science Reviews*, (2010), doi:10.1016/j.quascirev.2010.07.019
- Cohen, K. M.; Stouthamer, E. and Berendsen, H.J.A. (2002) Fluvial deposits as a record for Late Quaternary neotectonic activity in the Rhine-Meuse delta, The Netherlands. *Netherlands Journal of Geosciences/Geologie en Mijnbouw*, 81, 3-4, 389-405.
- Cohen, K.M. and Gibbard, P.L. (2010) Global chronostratigraphical correlation table for the last 2.7 million years, v. 2010 [on-line]
<http://www.quaternary.stratigraphy.org.uk/charts> Accessed 15 February 2011.
- Colbourne, G.T.; Gilbertson, D.D. and Hawkins, A.B. (1974) Temporary drift exposure in the Failand Ridge. *Proceedings of the Bristol Natural History Society*, 33, 91-97.
- Collcutt, S.N. (1984) The Sediments. In: Green, H.S. (ed) *Pontnewydd Cave*. National Museum of Wales, Cardiff, pp. 31-56.
- Collins, P.E.F.; Worsley, P.; Keith-Lucas, D.M. and Fenwick, I.M. (2006) Floodplain environmental change during the Younger Dryas and Holocene in Northwest Europe: Insights from the lower Kennet Valley, south-central England. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 233, 113-133.

- Colombo, F. (2005) Quaternary telescopic-like alluvial fans, Andean Ranges, Argentina. In: Harvey, A.M.; Mather, A.E. and Stokes, M. (eds) *Alluvial fans: Geomorphology, Sedimentology, Dynamics*. Geological Society Special Publication N° 251, The Geological Society, London, pp. 69-84.
- Coope, G.R. (1986) Coleoptera analysis. In: Berglund, B.E. (ed) *Handbook of Holocene Palaeoecology and Palaeohydrology*. John Wiley & Sons Ltd., Chichester, pp. 703-713.
- Coope, G.R. and Brophy, J.A. (1972) Late Glacial environmental changes indicated by a coleopteran succession from North Wales. *Boreas*, 1, 97-142.
- Coope, G.R.; Gibbard, P.L.; Hall, A.R.; Preece, R.C.; Robinson, J.E. and Sutcliffe, A.J. (1997) Climatic and environmental reconstructions based on fossil assemblages from Middle Devensian (Weichselian) deposits of the River Thames at South Kensington. *Quaternary Science Reviews*, 16, 1163-1195.
- Costa, J.E. (1988) Rheologic, Geomorphic, and Sedimentologic Differentiation of Water Floods, Hyperconcentrated Flows and Debris Flows. In: Baker, V.R.; Kochel, R.C. and Patton, P.C. (eds) *Flood Geomorphology*. John Wiley & Sons, Chichester, pp. 113-122.
- Currant, A. and Jacobi, R. (2001) A formal mammalian biostratigraphy for the Late Pleistocene of Britain. *Quaternary Science Reviews*, 20, 1707-1716.
- Currant, A.P.; Jacobi, R.M. and Rhodes, E. (2006) A new look at the Pleistocene sequence at Brean Down, Somerset and some observations on the earlier part of the Last Cold Stage in Western Mendip. In: Hunt, C.O. and Haslett, S.K. (eds) *The Quaternary of Somerset: Field Guide*. Quaternary Research Association, London, pp. 25-30.
- Cutler, K.B.; Edwards, R.L.; Taylor, F.W.; Cheng, H.; Adkins, J.; Gallup, C.D.; Cutler, P.M.; Burr, G.S. and Bloom, A.L. (2003) Rapid sea-level fall and deep-sea temperature change since the last interglacial period. *Earth and Planetary Science Letters*, 206, 253-271.
- Dansgaard, W.; Johnsen, S.J.; Clausen, H.B.; Dahl-Jensen, D.; Gundestrup, N.S.; Hammer, C.U.; Hvidberg, C.S.; Steffensen, J.P.; Sveinbjornsdottir, A.E.; Jouzel, J. and Bond, G. (1993) Evidence for general instability of past climate from a 250-kyr ice-core record. *Nature*, 364, 218-220.

- Davies, B.J.; Bridgland, D.R.; Roberts, D.H.; O’Cofaigh, C.; Pawley, S.M.; Candy, I.; Demarchi, B.; Penkman, K.E.H. and Austin, W.E.N. (2009) The age and stratigraphic context of the Easington Raised Beach, County Durham, UK. *Proceedings of the Geologists’ Association*, 120, 183-198.
- Davies, K.H. (1983) Amino acid analysis of Pleistocene marine molluscs from the Gower Peninsula. *Nature*, 302, 137-139.
- Davies, P. (2002) IGCP 438: Coastal environmental change during sea-level high-stands – field meeting report. In: Davies, P. (ed) *Archaeology in the Severn Estuary 2001 (Volume 12)*, S.L.E.R.C., Bath Spa, pp. 135-139.
- Day, E.C.H. (1866) On a Raised Beach and other Recent Formations, near Weston-super-Mare. *Geological Magazine*, 3, 115-119.
- de Scally, F.A.; Owens, I.F. and Louis, J. (2010) Controls on fan depositional processes in the schist ranges of the Southern Alps, New Zealand, and implications for debris-flow hazard assessment. *Geomorphology*, 122, 99-116.
- Dobkins, J.E. and Folk, R.L. (1970) Shape development on Tahiti Niu. *Journal of Sedimentary Petrology*, 40, 1167-1203.
- Dreyfus, G.B.; Parrenin, F.; Lemieux-Dudon, B.; Durand, G.; Masson-Delmotte, V.; Jouzel, J.; Barnola, J.-M.; Panno, L.; Spahni, R.; Tisserand, A.; Siegenthaler, U. and Leuenberger, M. (2007) Anomalous ice flow below 2700m in the EPICA Dome C ice core detected using $\delta^{18}\text{O}$ of atmosphere oxygen measurements. *Climate of the Past* [on-line] European Geosciences Union, Copernicus Publications, <http://www.clim-past.net/3/341/2007> Accessed 26 November 2007.
- Duller, G.A.T. (2004) Luminescence dating of Quaternary sediments: recent advances. *Journal of Quaternary Science*, 19, 2, 183-192.
- Duller, G.A.T. (2007) *Guidelines on using luminescence dating for archaeology* (v1 draft for English Heritage), Aberystwyth University.
- EDINA (2005) Digimap, Data Library, University of Edinburgh, Main Library, George Square, Edinburgh. <http://www.edina.ac.uk/digimap/>
- Edwards, R. (2006) Sea levels: change and variability during warm intervals. *Progress in Physical Geography*, 30, 6, 785-796.
- Egli, M.; Markli, C.; Sartori, G.; Mirabella, A. and Plotze, M. (2008) Weathering, mineralogical evolution and soil organic matter along a Holocene soil toposequence developed in carbonate-rich materials. *Geomorphology*, 97, 675-696.

- Ehlers, J.; Gibbard, P. and Rose, J. (1991) Glacial deposits of Britain and Europe. In: Ehlers, J.; Gibbard, P. and Rose, J. (eds) *Glacial deposits in Great Britain and Ireland*. Balkema, Rotterdam, pp. 493-501.
- Ehlers, J. and Gibbard, P. (2003) Extent and chronology of glaciations. *Quaternary Science Reviews*, 22, 1561-1568.
- Elias, S.A. (ed) (2007) *Encyclopedia of Quaternary Science*. Elsevier, London.
- Ellis, A.E. (1969) *British Snails*. Oxford University Press, London.
- Ellis, S. and Mellor, A. (1995) *Soils and Environment*. Routledge, London.
- Ellis, S. and Atherton, J.K. (2003) Properties and development of soils on reclaimed alluvial sediments of the Humber estuary, eastern England. *Catena*, 52, 129-147.
- EPICA Community Members (2004) Eight glacial cycles from an Antarctic ice core. *Nature*, 429, 623-628.
- Evans, D.J.A. (ed) (2003) *Glacial Landscapes*. Arnold, London.
- Evans, D.J.A. (2005) Glaciers. *Progress in Physical Geography*, 29, 1, 114-121.
- Evans, D.J.A. and O’Cofaigh, C. (2003) Depositional evidence for marginal oscillations of the Irish Sea ice stream in southeast Ireland during the last glaciation. *Boreas*, 32, 76-101.
- Evans, D.J.A. and Benn, D.I. (2004) *A Practical Guide To The Study of Glacial Sediments*. Arnold, London.
- Evans, D.J.A.; Clark, C.D. and Mitchell, W.A. (2005) The last British Ice Sheet: A review of the evidence utilised in the compilation of the Glacial Map of Britain. *Earth Science Reviews*, 70, 3-4, 253-312.
- Eyles, N. and Paul, M.A. (1983) Landforms and Sediments Resulting From Former Periglacial Climates. In: Eyles, N. (ed) *Glacial Geology*. Pergamon Press Ltd., Oxford, pp. 111-139.
- Eyles, N. and McCabe, M. (1989) The Late Devensian (<22,000 BP) Irish Sea Basin: The Sedimentary Record of a Collapsed Ice Sheet Margin. *Quaternary Science Reviews*, 3, 307-351.
- Farrant, A.R. and Smart, P.L. (1997) The geomorphic evolution of the Mendip Hills. In: Hollowell, A. F. (ed) *The Mendip Hills*. Bristol Naturalists Society Special Issue No. 1. Bristol Naturalists Society, Ipswich, pp. 135-158.

- Fenwick, I. (1985) Palaeosols: Problems of Recognition and Interpretation. In: Boardman, J. (ed) *Soils and Quaternary Landscape Evolution*. John Wiley & Sons Ltd., Chichester, pp. 3-21.
- Findlay, D.C. (1965) *The soils of the Mendip District of Somerset (Sheets 279 and 280)*. Soil Survey of Great Britain, England and Wales, Harpenden.
- Findlay, D.C. and Catt, J.A. (2006) A Temporary Section in Head at Bourne, Burrington, Somerset. *Proceedings of the University of Bristol Society*, 24, 1, 5-15.
- Fisher, P.F. and Bridgland, D.R. (1986) Analysis of pebble morphology. In: Bridgland (ed) *Clast Lithological Analysis*. Quaternary Research Association Technical Guide No. 3. Quaternary Research Association, Cambridge, pp. 43-58.
- Fitter, R. and Manuel, R. (1986) *Collins Photo Guide: Lakes, Rivers and Ponds of Britain and Northwest Europe*. HarpersCollins, London.
- Folk, R.L. and Ward, W.C. (1957) Brazos River bar: a study in the significance of grain-size parameters. *Journal of Sedimentary Petrology*, 27, 1, 3-26.
- Ford, T.D. and Pedley, H.M. (1996) A review of tufa and travertine deposits of the world. *Earth-Science Reviews*, 41, 117-175.
- Francelino, M.R.; Schaefer, C.E.G.R.; Simas, F.N.B.; Filho, E.I.F.; de Souza, J.J.L.L. and da Costa, L.M. (2011) Geomorphology and soils distribution under paraglacial conditions in an ice-free area of Admiralty Bay, King George Island, Antarctica. *Catena*, 85, 194-204.
- Frechen, M.; van Vliet-Lanoë, B. and van den Haute, P. (2001) The Upper Pleistocene loess record at Harmignies/Belgium – high resolution terrestrial archive of climate forcing. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 173, 175-195.
- French, H. M. (1976) *The Periglacial Environment*. Longman, London.
- French, H. M. (2007) *The Periglacial Environment* (3rd ed). John Wiley & Sons Ltd., Chichester.
- French, H. M. and Karte, J. (1988) A Periglacial Overview. In: Clark, M.J. (ed) *Advances in Periglacial Geomorphology*. John Wiley & Sons Ltd., Chichester, pp. 463-473.

- Frenzel, P. and Boomer, I. (2005) The use of ostracods from marginal marine, brackish waters as bioindicators of modern and Quaternary environmental change. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 225, 68-92.
- Freytet, P. and Verrecchia, E.P. (2002) Lacustrine and palustrine carbonate petrography: an overview. *Journal of Paleolimnology*, 27, 221-237.
- Friedman, G.M. (1961) Distinction between dune, beach, and river sands from their textural characteristics. *Journal of Sedimentary Petrology*, 31, 4, 514-529.
- Fuchs, M. and Lang, A. (2009) Luminescence dating of hillslope deposits – A review. *Geomorphology*, 109, 17-26.
- Funnell, B.M. (1996) Plio-Pleistocene palaeogeography of the southern North Sea Basin. *Quaternary Science Reviews*, 15, 391-405.
- Gabet, E.J. and Mudd, S.M. (2006) The mobilization of debris flows from shallow landslides. *Geomorphology*, 74, 207-218.
- Gábris, G. and Nagy, B. (2005) Climate and tectonically controlled river style changes on the Sajó-Hernád alluvial fan (Hungary). In: Harvey, A.M.; Mather, A.E. and Stokes, M. (eds) *Alluvial fans: Geomorphology, Sedimentology, Dynamics*. Geological Society of London Special Publication Number 251, The Geological Society, London, pp. 60-67.
- Gale, S.J. and Hoare, P.G. (1991) *Quaternary Sediments*. Belhaven Press, London.
- Ganopolski, A. and Rahmstorf, S. (2001) Rapid changes in glacial climate simulated in a coupled climate model. *Nature*, 409, 6813, 153-158.
- Gao, C.; Keen, D.H.; Boreham, S.; Coope, G.R.; Pettit, M.E.; Stuart, A.J. and Gibbard, P.L. (2000) Last Interglacial and Devensian deposits of the River Great Ouse at Woolpack Farm, Fenstanton, Cambridgeshire, UK. *Quaternary Science Reviews*, 19, 787-810.
- Gao, J. (2007) Towards accurate determination of surface height using modern geoinformatic methods: possibilities and limitations. *Progress in Physical Geography*, 31, 6, 591-605.
- Gee, G.W. and Bauder, J.W. (1986) Particle-size Analysis. In: Klute, A. (ed) *Methods of Soil Analysis*. American Society of Agronomy Inc., Soil Science Society of America Inc., Madison, Wisconsin, pp. 383-411.

- Gehrels, W.R.; Roe, H.M. and Charman, D.J. (2001) Foraminifera, testate amoebae and diatoms as sea-level indicators in UK saltmarshes: a quantitative multi-proxy approach. *Journal of Quaternary Science*, 16, 3, 201-220.
- Gibbard, P.L. (2003) Definition of the Middle-Upper Pleistocene Boundary. *Global and Planetary Change*, 36, 201-208.
- Gibbard, P.L. and West, R.G. (2000) Quaternary chronostratigraphy: the nomenclature of terrestrial sequences. *Boreas*, 29, 329-336.
- Gibbard, P.L. and Lewin, J. (2002) Climate and related controls on interglacial fluvial sedimentation in lowland Britain. *Sedimentary Geology*, 151, 187-210.
- Gibbard, P. and van Kolfschoten, T. (2004) The Pleistocene and Holocene Epochs. In: Gradstein, F.; Ogg, J. and Smith, A. (eds) *A Geologic Time Scale*. Cambridge University Press, Cambridge, pp. 441-453.
- Gibbard, P.L.; Smith, A.G.; Zalasiewicz, J.A.; Barry, T.L.; Cantrill, D.; Coe, A.L.; Cope, J.C.W.; Gale, A.S.; Gregory, F.J.; Powell, J.H.; Rowson, P.F.; Stone, P. and Waters, C.N. (2005) What status for the Quaternary? *Boreas*, 34, 1-6.
- Gibbard, P.L.; Moscariello, A.; Bailey, H.W.; Koch, C.; Lord, A.R.; Whittaker, J.F. and Whiteman, C.A. (2008) Comment: Middle Pleistocene sedimentation at Pakefield, Suffolk, England. *Journal of Quaternary Science*, 23, 1, 85-92.
- Gibbard, P.L.; Pasanen, A.H.; West, R.G.; Lunkka, J.P.; Boreham, S.; Cohen, K.M. and Rolfe, C. (2009) Late Middle Pleistocene glaciation in East Anglia, England. *Boreas*, 38, 504-528.
- Gibbard, P.L.; Head, M.J.; Walker, M.J.C. and the Subcommittee on Quaternary Stratigraphy (2010) Formal ratification of the Quaternary System/Period and the Pleistocene Series/Epoch with a base at 2.58 Ma. *Journal of Quaternary Science*, 25, 2, 96-102.
- Gilbertson, D.D. (1974) *The Pleistocene succession in the coastal lowlands of Somerset*. Unpublished PhD Thesis, University of Bristol.
- Gilbertson, D.D. and Hawkins, A.B. (1974) Upper Pleistocene Deposits and Landforms at Holly Lane, Clevedon, Somerset (ST419727). *Proceedings of the University of Bristol Spelaeological Society*, 13, 3, 349-360.
- Gilbertson, D.D. and Hawkins, A.B. (1977) The Quaternary deposits at Swallow Cliff, Middle Hope, County of Avon. *Proceedings of the Geologists' Association*, 88, 4, 255-266.

- Gilbertson, D.D. and Hawkins, A.B. (1978a) *The Pleistocene Succession at Kenn, Somerset. Bulletin of the Geological Survey of Great Britain, No. 66*, Institute of Geological Sciences, H.M.S.O., London.
- Gilbertson, D.D. and Hawkins, A.B. (1978b) The Col-Gully and Glacial Deposits at Court Hill, Clevedon, Near Bristol, England. *Journal of Glaciology*, 20, 82, 173-188.
- Gilbertson, D.D. and Hawkins, A.B. (1983) Periglacial Slope Deposits And Frost Structures Along The Southern Margins of the Severn Estuary. *Proceedings of the Bristol Speleological Society*, 16, 3, 175-184.
- Gilbertson, D.D.; Hawkins, A.B.; Mills, C.M.; Harkness, D.D. and Hunt, C.O. (1990) The Late Devensian and Holocene of industrial Severnside and the Vale of Gordano: Stratigraphy, radiocarbon dating and palaeoecology. *Proceedings of the Ussher Society*, 7, 279-284.
- Gilmour, M.; Carrant, A.; Jacobi, R. and Stringer, C. (2007) Recent TIMS dating results from British Late Pleistocene vertebrate faunal localities: context and interpretation. *Journal of Quaternary Science*, 22, 8, 793-800.
- Glasser, N.F.; Etienne, J.L.; Hambrey, M.J.; Davies, J.R.; Waters, R.A. and Wilby, P.R. (2004) Glacial meltwater erosion and sedimentation as evidence for multiple glaciations in west Wales. *Boreas*, 33, 224-237.
- Golden Software Inc. (1999) *Surfer Contouring, Gridding and Surface Mapping for Scientists and Engineers*. Colorado.
- Gonga-Saholiariliva, N.; Gunnell, Y.; Petit, C. and Mering, C. (2011) Techniques for quantifying the accuracy of gridded elevation models and for mapping uncertainty in digital terrain analysis. *Progress in Physical Geography*, 35, 6, 739-764.
- Goudie, A. (ed) (1990) *Geomorphological Techniques*. Routledge, London.
- Graham, D.J. and Midgely, N. (2000) Graphical Representation of Particle Shape Using Triangular Diagrams: An Excel Spreadsheet Method. *Earth Surface Processes and Landforms*, 25, 1473-1477.
- Gray, J.M. (1991) Glaciofluvial landforms. In: Ehlers, J.; Gibbard, P. and Rose, J. (eds) *Glacial deposits in Great Britain and Ireland*, Balkema, Rotterdam, pp. 443-454.

- Green, G.W. (1992) *British Regional Geology: Bristol and Gloucester Region* (3rd ed). H.M.S.O., London.
- Green, G.W. and Welch, F.B.A. (1965) *Memoirs of the Geological Survey of Great Britain: Geology of the Country around Wells and Cheddar*. H.M.S.O., London.
- Greenly, E. (1922) An Aeolian Pleistocene Deposit at Clevedon. *Geological Magazine*, 59, 365-376.
- Griffiths, H.I. and Holmes, J.A. (2000) *Non-marine ostracods and Quaternary palaeoenvironments*. Quaternary Research Association Technical Guide No. 8. Quaternary Research Association, London.
- Grimm, E.C.; Maher, Jr., L.J. and Nelson, D.M. (2009) The magnitude of error in conventional bulk-sediment radiocarbon dates from Central North America. *Quaternary Research*, 72, 301-308.
- Grosse-Brauckmann, G. (1986) Analysis of vegetative plant macrofossils. In: Berglund, B.E. (ed) *Handbook of Holocene Palaeoecology and Palaeohydrology*. John Wiley & Sons Ltd., Chichester, pp. 591-618.
- Guitter, F.; Andrieu-Ponel, V.; De Beaulieu, J.L.; Ceddadi, R.; Calvez, M.; Ponel, P.; Reille, M.; Keller, T. and Goeury, C. (2003) The last climatic cycles in Western Europe: a comparison between long continuous lacustrine sequences from France and other terrestrial records. *Quaternary International*, 111, 59-74.
- Gurney, S.D. (1998) Aspects of the genesis and geomorphology of pingos: perennial permafrost mounds. *Progress in Physical Geography*, 22, 3, 307-324.
- Hamblin, R.J.O.; Moorlock, B.S.P.; Rose, J.; Lee, J.R.; Riding, J.B.; Booth, S.J. and Pawley, S.M. (2005) Revised Pre-Devensian glacial stratigraphy in Norfolk, England, based on mapping and till provenance. *Geologie en Mijnbouw*, 84-2, 77-85.
- Hambrey, M. (1994) *Glacial Environments*. UCL Press Ltd., London.
- Hambrey, M.J.; Davies, J.R.; Glasser, N.F.; Waters, R.A.; Dowdeswell, J.A.; Wilby, P.R.; Wilson, D. and Etienne, J.L. (2001) Devensian glacial sedimentation and landscape evolution in the Cardigan area of southwest Wales. *Journal of Quaternary Science*, 16, 5, 455-482.
- Harris, C. (1987) Solifluction and related periglacial deposits in England and Wales. In: Boardman, J. (ed) *Periglacial processes and landforms in Britain and Ireland*. Cambridge University Press, Cambridge, pp. 209-223.

- Harrison, S. and Keen, D.H. (2005) South-west England. In: Lewis, C.A. and Richards, A.E. (eds) *The glaciations of Wales and adjacent areas*. Logaston Press, Logaston, Herefordshire, pp. 165-176.
- Hart, B.S. (1991) A study of pebble shape from gravelly shoreface deposits. *Sedimentary Geology*, 73, 185-189.
- Hartley, A.J.; Mather, A.E.; Jolley, E. and Turner, P. (2005) Climatic controls on alluvial fan activity, Coastal Cordillera, northern Chile. In: Harvey, A.M.; Mather, A.E. and Stokes, M. (eds) *Alluvial fans: Geomorphology, Sedimentology, Dynamics*. Geological Society of London Special Publication Number 251, The Geological Society, London, pp. 95-115.
- Harvey, A.J. (1990) Factors Influencing Quaternary Alluvial Fan Development in Southeast Spain. In: Rachocki, A.H. and Church, M. (eds) *Alluvial Fans: A Field Approach*. John Wiley & Sons Ltd., Chichester, pp. 247-269.
- Harvey, A.M.; Silva, P.G.; Mather, A. E.; Goy, J.L.; Stokes, M. and Zazo, C. (1999) The impact of Quaternary sea-level and climatic change on coastal alluvial fans in the Cabo de Gata ranges, southeast Spain. *Geomorphology*, 28, 1-22.
- Harvey, A.M.; Foster, G.; Hannam, J. and Mather, A.E. (2003) The Tabernas alluvial fan and lake system, southeast Spain: applications of mineral magnetic and pedogenic iron oxide analyses towards clarifying the Quaternary sediment sequences. *Geomorphology*, 50, 151-171.
- Haslett, S.K. (1997) An Ipswichian foraminiferal assemblage from the Gwent Levels (Severn Estuary, UK). *Journal of Micropalaeontology*, 16, 136 (Extract).
- Haslett, S. K. (2000) *Coastal Systems*. Routledge, London.
- Haslett, S.K. (2002) *Quaternary Environmental Micropalaeontology*. Arnold, London.
- Haslett, S.K.; Davies, P.; Curr, R.H.F.; Davies, C.F.C.; Kennington, K.; King, C.P. and Margetts, A.J. (1998) Evaluating late-Holocene relative sea-level change in the Somerset levels, southwest Britain. *The Holocene*, 8, 2, 197-207.
- Haslett, S.K.; Strawbridge, F.; Martin, N.A. and Davies, C.F.C. (2001) Vertical Saltmarsh Accretion and its Relationship to Sea-level in the Severn Estuary, U.K.: An Investigation using Foraminifera as Tidal Indicators. *Estuarine, Coastal and Shelf Science*, 52, 143-153.

- Hatté, C.; Morvan, J.; Noury, C. and Paterne, M. (2001) Is classical acid-alkali-acid treatment responsible for contamination? An alternative proposition. *Radiocarbon*, 43, 2A, 177-182.
- Hawkins, A.B. (1972) Some Gorges of the Bristol District. *Proceedings of the Bristol Naturalists Society*, 32, 2, 167-185.
- Hawkins, A.B. (1977) The Quaternary of the North Somerset area. In: Savage, R.G.J. (ed) *Geological excursions in the Bristol District*. University of Bristol, Bristol, pp. 171-182.
- Hawkins, A.B. (1990) Geology of the Avon coast. *Proceedings of the Bristol Natural History Society*, 50, 3-27.
- Hawkins, A.B. and Kellaway, G.A. (1971) Field Meeting at Bristol and Bath with Special Reference to new Evidence of Glaciation. *Proceedings of the Geological Association*, 82, 2, 267-291.
- Hawkins, A.B. and Kellaway, G.A. (1973) "Burtle Clay" of Somerset. *Nature*, 243, 216-217.
- Heiri, O.; Lotter, A.F. and Lemcke, G. (2001) Loss on ignition as a method for estimating organic and carbonate content in sediments: reproducibility and comparability of results. *Journal of Palaeolimnology*, 25, 101-110.
- Heritage, G.L.; Milan, D.J.; Large, A.R.G. and Fuller, I.C. (2009) Influence of survey strategy and interpolation model on DEM quality. *Geomorphology*, 112, 334-344.
- Heyworth, A. and Kidson, C. (1982) Sea-level changes in southwest England and Wales. *Proceedings of the Geologists' Association*, 93, 1, 91-111.
- Hiemstra, J.F.; Rijdsdijk, K.F.; Shakesby, R.A. and McCarroll, D. (2009) Reinterpreting Rotherslade, Gower Peninsula: implications for Last Glacial ice limits and Quaternary stratigraphy of the British Isles. *Journal of Quaternary Science*, 24, 4, 399-410.
- Hill, T.C.B. (2006) The Quaternary Evolution of the Gordano Valley, North Somerset, UK. Unpublished PhD Thesis, University of the West of England.
- Hill, T.C.B.; Woodland, W.A.; Spencer, C.; Case, D.; Marriott, S.; Bridle, A. and Brown, H. (2006) Late Quaternary Environmental Change in the Gordano Valley. In: Hunt, C.O. and Haslett, S.K. (eds) *The Quaternary of Somerset: Field Guide*. Quaternary Research Association, London, pp. 115-143.

- Hill, T.C.B.; Woodland, W.A.; Spencer, C.D. and Marriott, S.B. (2007) Holocene sea-level change in the Severn Estuary, southwest England: a diatom-based sea-level transfer function for macrotidal settings. *The Holocene*, 17, 5, 639- 648.
- Hill, T.C.B.; Woodland, W.A.; Spencer, C.D.; Marriott, S.B.; Case, D.J. and Catt, J.A. (2008) Devensian Late-glacial environmental change in the Gordano Valley, North Somerset, England: a rare archive for southwest Britain. *Journal of Palaeolimnology*, 40, 431-444.
- Hoare, P.G.; Gale, S.J.; Robinson, R.A.J.; Connell, E.R. and Larkin, N.R. (2009) Marine Isotope Stage 7-6 transition age for beach sediments at Morston, north Norfolk, UK: implications for Pleistocene chronology, stratigraphy and tectonics. *Journal of Quaternary Science*, 24, 4, 311-316.
- Hoek, W.Z. and Bohncke, S.J.P. (2001) Oxygen-isotope wiggle matching as a tool for synchronising ice-core and terrestrial records over Termination 1. *Quaternary Science Reviews*, 20, 1251-1264.
- Hoek, W.Z.; Yu, Z.C. and Lowe, J.J. (2008) INTEgration of Ice-core, MARine, and TERrestrial records (INTIMATE): refining the record of the Last Glacial-Interglacial Transition. *Quaternary Science Reviews*, 27, 1-5.
- Holmes, J.; Jones, R.; Haas, J.N.; McDermott, F.; Molloy, K. and O'Connell, M. (2007) Multi-proxy evidence for Holocene lake-level and salinity changes at An Loch Mór, a coastal lake on the Arran Islands, Western Ireland. *Quaternary Science Reviews*, 26, 2438-2462.
- Holmes, J.A.; Atkinson, T.; Darbyshire, D.P.F.; Horne, D.J.; Joordens, J.; Roberts, M.B.; Sinka, K.J. and Whittaker, J.E. (2009) Middle Pleistocene climate and hydrological environment at the Boxgrove hominin site (West Sussex, UK). *Quaternary Science Reviews*, 30, 1-13.
- Hooke, R. LeB. (1967) Processes on arid-region alluvial fans. *Journal of Geology*, 75, 438-460.
- Horton, B.P. and Murray, J.W. (2007) The roles of elevation and salinity as primary controls on living foraminiferal distribution: Cowpen Marsh, Tees Estuary, UK. *Marine Micropalaeontology*, 63, 169-186.
- Hubbard, B. and Glasser, N.F. (2005) *Field techniques in glaciology and glacial geomorphology*. John Wiley & Sons, Chichester.
- Huggett, R.J. (2003) *Fundamentals of Geomorphology*. Routledge, London.

- Hülle, D.; Hilgers, A.; Kühn, P. and Radtke, U. (2009) The potential of optically stimulated luminescence for dating periglacial slope deposits – A case study from the Taunus area, Germany. *Geomorphology*, 109, 66-78.
- Hunt, C.O. (1998a) The Quaternary history of the Avon Valley and Bristol district. In: Campbell, S.; Scourse, J.D.; Hunt, C.O.; Keen, D.H. and Stephens, N. (eds) *Geological Conservation Review: The Quaternary of South West England*. Geological Conservation Review, Volume 14, Joint Nature Conservation Committee, Chapman and Hall, London, pp. 333-336.
- Hunt, C.O. (1998b) The Quaternary history of the Somerset Lowland, Mendip Hills and adjacent areas. In: Campbell, S.; Scourse, J.D.; Hunt, C.O.; Keen, D.H. and Stephens, N. (eds) *Geological Conservation Review: The Quaternary of South West England*. Geological Conservation Review, Volume 14, Joint Nature Conservation Committee, Chapman and Hall, London, pp. 318-321.
- Hunt, C.O. (2006a) Mendip Fan Gravels at Wookey Station. In: Hunt, C.O. and Haslett, S.K. (eds) *The Quaternary of Somerset: Field Guide*. Quaternary Research Association, London, pp. 67-69.
- Hunt, C.O. (2006b) Gravels of the 30 m terrace of the Avon at Ham Green. In: Hunt, C.O. and Haslett, S.K. (eds) *The Quaternary of Somerset: Field Guide*. Quaternary Research Association, London, pp. 150-153.
- Hunt, C.O. (2006c) The Burtle Formation. In: Hunt, C.O. and Haslett, S.K. (eds) *The Quaternary of Somerset: Field Guide*. Quaternary Research Association, London, pp. 173-182.
- Hunt, C.O. (2006d) The ancient glaciation of Avon: the col-gully at Court Hill. In: Hunt, C.O. and Haslett, S.K. (eds) *The Quaternary of Somerset: Field Guide*. Quaternary Research Association, London, pp. 110-114.
- Hunt, C.O. (2006e) Glacial deposits at Nightingale Valley, on Portishead Down. In: Hunt, C.O. and Haslett, S.K. (eds) *The Quaternary of Somerset: Field Guide*. Quaternary Research Association, London, pp. 144-149.
- Hunt, C.O. (2006f) Weston in Gordano. In: Hunt, C.O. and Haslett, S.K. (eds) *The Quaternary of Somerset: Field Guide*. Quaternary Research Association, London, pp. 182-186.

- Hunt, C.O. (2006g) Brean Down: stratigraphy, molluscs and pollen. In: Hunt, C.O. and Haslett, S.K. (eds) *The Quaternary of Somerset: Field Guide*. Quaternary Research Association, London, pp. 13-24.
- Hunt, C.O. (2006h) Ancient glacial and interglacial deposits at Kenn, Avon. In: Hunt, C.O. and Haslett, S.K. (eds) *The Quaternary of Somerset: Field Guide*. Quaternary Research Association, London, pp. 38-43.
- Hunt, C.O. (2006k) The Stage 9 Interglacial site at Hurcott Farm, near Somerton. In: Hunt, C.O. and Haslett, S.K. (eds) *The Quaternary of Somerset: Field Guide*. Quaternary Research Association, London, pp. 104-108.
- Hunt, C.O. (2006l) The Langport Gap. In: Hunt, C.O. and Haslett, S.K. (eds) *The Quaternary of Somerset: Field Guide*. Quaternary Research Association, London, pp. 187-188.
- Hunt, C.O. (2006m) Swallow Cliff Raised Beach, Middle Hope. In: Hunt, C.O. and Haslett, S.K. (eds) *The Quaternary of Somerset: Field Guide*. Quaternary Research Association, London, pp. 31-37.
- Hunt, C.O.; Gilbertson, D.D. and Thew, N.M. (1984) The Pleistocene Chadbrick River gravels of the Cary Valley, Somerset: Amino-acid racemisation and molluscan studies. *Proceedings of the Ussher Society*, 6, 129-133.
- Hunt, C.O. and Bowen, D.Q. (2006a) Devensian Interstadial marginal-marine deposits at Low Ham. In: Hunt, C.O. and Haslett, S.K. (eds) *The Quaternary of Somerset: Field Guide*. Quaternary Research Association, London, pp.189-195.
- Hunt, C.O. and Bowen, D.Q. (2006b) Stage 7 deposits at Portfield. In: Hunt, C.O. and Haslett, S.K. (eds) *The Quaternary of Somerset: Field Guide*. Quaternary Research Association, London, pp. 196-204.
- Hunt, C.O. and Haslett, S.K. (eds) (2006) *The Quaternary of Somerset: Field Guide*. Quaternary Research Association, London, pp. 1-12.
- Hutchinson, J.N. (1991) Periglacial and slope processes. In: Forster, A.; Culshaw, M.G.; Cripps, J.C.; Little, J.A. and Moon, C.F. (eds) *Quaternary Engineering Geology*. Geological Society Engineering Geology Special Publication N^o 7, The Geological Society, London, pp. 283-331.
- Isarin, R.F.B. (1997) Permafrost Distribution and Temperatures in Europe During the Younger Dryas. *Permafrost and Periglacial Processes*, 8, 313-333.

- Isphording, W.C.; Barclay, E.J. and Barkett, R.J. (2003) Sediment particle analysis: Which method is “Best”? *Geological Society of America Abstract with Programs*, 35, 6, 142.
- IUPAC-IUGS Task Group (2006) Recommendations for isotope data in geosciences. [on-line] <http://www.iupac.org/projects/2006/2006-016-1-200.html> Accessed 3 July 2008.
- James, H.C.L. and Worsley, P. (1997) Evidence for Last Glacial periglacial activity at Alderney. *Proceedings of the Ussher Society*, 9, 177-181.
- Jefferies, R.L.; Willis, A.J. and Yemm, E.W. (1968) The Late- and Post-glacial history of the Gordano Valley, North Somerset. *New Phytologist*, 67, 335-348.
- Jenkins, D.A. (1985) Chemical and Mineralogical Composition in the Identification of Palaeosols. In: Boardman, J. (ed) *Soils and Quaternary Landscape Evolution*. John Wiley & Son Ltd., Chichester, pp. 23-43.
- John, D.M.; Whitton, B.A. and Brook, A.J. (eds) (2002) *The Freshwater Algal Flora of the British Isles*. Cambridge University Press, Cambridge.
- Johnsen, S.J.; Clausen, H.B.; Dansgaard, W.; Fuhrer, K.; Gundestrup, N.; Hammer, C.U.; Iversen, P.; Jouzel, J.; Stauffer, B. and Steffensen, J.P. (1992) Irregular glacial interstadials recorded in a new Greenland ice core. *Nature*, 359, 311-313.
- Jones, A. (2007) *Rocks and Minerals of Britain and Europe*. HarperCollins Publishers Ltd., London.
- Jones, A. P. (2000) Late quaternary sediment sources, storage and transfers within mountain basins using clast lithological analysis: Pineta Basin, central Pyrenees, Spain. *Geomorphology*, 34, 145-161.
- Jones, A.P.; Tucker, M.E. and Hart, J. (1999) *The Description and Analysis of Quaternary Stratigraphic Field Sections: Technical Guide Number 7*. Quaternary Research Association, London.
- Jones, R.L. and Keen, D.H. (1993) *Pleistocene Environments in the British Isles*. Chapman and Hall, London.

- Jouzel, J.; Masson-Delmotte, V.; Cattani, O.; Dreyfus, G.; Falourd, S.; Hoffman, G.; Minster, B.; Nouet, J.; Barnola, J.M.; Chappellaz, J.; Fischer, H.; Gallet, J.C.; Johnsen, S.; Leuenberger, M.; Loulergue, L.; Luethi, D.; Oerter, H.; Parrenin, F.; Raisbeck, G.; Raynaud, D.; Schilt, A.; Schwander, J.; Selmo, E.; Souchez, R.; Spahni, R.; Stauffer, B.; Steffensen, J.P.; Stenni, B.; Stocker, T.F.; Tison, J.L.; Werner, M. and Wolff, E.W. (2007) Orbital and Millennial Antarctic Climate Variability over the Past 800,000 Years. *Science*, 317, 5839, 793-797.
- Keen, D.H. (1987) Non-marine molluscan faunas of periglacial deposits in Britain. In: Boardman, J. (ed) *Periglacial processes and landforms in Britain and Ireland*. Cambridge University Press, Cambridge, pp. 257-263.
- Keen, D.H. (2001) Towards a late Middle Pleistocene non-marine molluscan biostratigraphy for the British isles. *Quaternary Science Reviews*, 20, 1657-1665.
- Keen, D.H.; Coope, G.R.; Jones, R.L.; Field, M.H.; Griffiths, H.I.; Lewis, S.G. and Bowen, D.Q. (1997) Middle Pleistocene deposits at Frog Hall Pit, Stretton-on-Dunsmore, Warwickshire, English Midlands, and their implications for the age of the type Wolstonian. *Journal of Quaternary Science*, 12, 3, 183-208.
- Kellaway, G.A. and Welch, F.B.A. (1948) *British Regional Geology: Geology of the Bristol District*. H.M.S.O., London.
- Kellaway, G.A. and Welch, F.B.A. (1993) *Geology of the Bristol District*. H.M.S.O., London.
- Kennard, A.S. and Woodward, B.B. (1934) Non-Marine Mollusca from the Clevedon Breccias. *Proceedings of the Geologists' Association*, 43, 158-160.
- Kerney, M.P. (1971) Interglacial deposits in Barnfield pit, Swanscombe, and their molluscan fauna. *Journal of the Geological Society*, 127, 69-93.
- Kerney, M.P. (1976) *Atlas of the non-marine mollusca of the British Isles*. Institute of Terrestrial Ecology (NERC) Cambridge.
- Kidson, C. (1971) The Quaternary History of the Coasts of South-West England, with special reference to the Bristol Channel Coast. In: Gregory, K.J. and Ravenhill, W.L.D. (eds) *Exeter Essays in Geography*. University of Exeter, Exeter, pp. 1-22.
- Kidson, C. and Haynes, J.R. (1972) Glaciation in the Somerset Levels: the Evidence of the Burtle Beds. *Nature*, 239, 390-392.

- Kidson, C.; Haynes, J.R. and Heyworth, A. (1974) The Burtle Beds of Somerset – glacial or marine? *Nature*, 251, 211-213.
- Kidson, C. and Heyworth, A. (1976) The Quaternary Deposits of the Somerset Levels. *Journal of Engineering Geology*, 9, 217-235.
- Kidson, C.; Gilbertson, D.D.; Haynes, J.R.; Heyworth, A.; Hughes, C.E. and Whatley, R.C. (1978) Interglacial marine deposits of the Somerset Levels, South West England. *Boreas*, 7, 215-228.
- Kochel, R.C. (1990) Humid Fans of the Appalachian Mountains. In: Rachocki, A.H. and Church, M. (eds) *Alluvial Fans: A Field Approach*. John Wiley & Sons Ltd., Chichester, pp. 109-129.
- Konert, M. and Vandenberghe, J. (1997) Comparison of laser grain size analysis with pipette and sieve analysis: a solution for the underestimation of the clay fraction. *Sedimentology*, 44, 523-535.
- Kraus, M.J. (1999) Paleosols in clastic sedimentary rocks: their geologic applications. *Earth Science Reviews*, 47, 41-70.
- Kruger, J. and Kjær, K.H. (1999) A data chart for field description and genetic interpretation of glacial diamicts and associated sediments – with examples from Greenland, Iceland and Denmark. *Boreas*, 28, 386-402.
- Krumbein, W.C. (1941) Measurement and geological significance of shape and roundness of sedimentary particles. *Journal of Sedimentary Petrology*, 11, 2, 61-72.
- Kukla, G.J.; Bender, M.L.; de Beaulieu, J.-L.; Bond, G.; Broecker, W.S.; Cleveringa, P.; Gavin, J.E.; Herbert, T.D.; Imbrie, J.; Jouzel, J.; Keigwin, L.D.; Knudsen, K.-L.; McManus, J.F.; Merkl, J.; Muhs, D.R.; Müller, H.; Poore, R.Z.; Porter, S.C.; Seret, G.; Shackleton, N.J.; Turner, C.; Tzedakis, P.C. and Winograd, I.J. (2002) Last Interglacial Climates. *Quaternary Research*, 28, 2-13.
- Lambeck, K. and Purcell, A.P. (2001) Sea-level change in the Irish Sea since the Last Glacial Maximum: constraints from isostatic modelling. *Journal of Quaternary Science*, 16, 5, 497-506.
- Lambeck, K.; Yokoyama, Y. and Purcell, A.P. (2002a) Into and out of the Last Glacial Maximum: sea-level change during Oxygen Isotope Stages 3 and 2. *Quaternary Science Reviews*, 21, 343-360.

- Lambeck, K.; Esat, T.M. and Potter E.-K. (2002b) Links between climate and sea levels for the past three million years. *Nature*, 419, 199-206.
- Lario, J.; Spencer, C.; Plater, A.J.; Zazo, C.; Goy, J.L. and Dabrio, C.J. (2002) Particle size characterization of Holocene back-barrier sequences from North Atlantic coasts (SW Spain and SE England). *Geomorphology*, 42, 25-42.
- Lecce, S.A. (1990) The Alluvial Fan Problem. In: Rachocki, A. H. and Church, M. (eds) *Alluvial Fans: A Field Approach*. John Wiley & Sons Ltd., Chichester, pp. 3-24.
- Lee, J.R.; Rose, J.; Riding, J.B.; Moorlock, B.S.P. and Hamblin, R.J.O. (2002) Testing the case for a Middle Pleistocene Scandinavian glaciation in Eastern England: evidence for a Scottish ice source for tills within the Corton Formation of East Anglia. *Boreas*, 31, 345-355.
- Lee, J.R.; Rose, J.; Hamblin, R.J.O. and Moorlock, B.S.P. (2004) Dating the earliest lowland glaciation of eastern England: a pre-MIS 12 early Middle Pleistocene Happisburgh glaciation. *Quaternary Science Reviews*, 23, 1551-1566.
- Lee, J.R.; Rose, J.; Candy, I. and Barendregt, R.W. (2006) Sea-level changes, river activity, soil development and glaciation around the western margins of the south North Sea Basin during the Early and early Middle Pleistocene: evidence from Pakefield, Suffolk, UK. *Journal of Quaternary Science*, 21, 2, 155-179.
- Lee, J.R.; Rose, J.; Candy, I. and Barendregt, R.W.; Moorlock, B.S.P.; Riding, J.B. and Hamblin, R.J.O. (2008) Reply: Middle Pleistocene sedimentation at Pakefield, Suffolk, England. *Journal of Quaternary Science*, 23, 1, 93-98.
- Lefebvre, D. (1993) Different types of ending to the last two interglacials in western Europe. *Boreas*, 22, 2, 71-76 (Abstract).
- Lewin, J. and Macklin, M.G. (2003) Preservation potential for Late Quaternary river alluvium. *Journal of Quaternary Science*, 18, 2, 107-120.
- Lewin, J. and Gibbard, P.L. (2010) Quaternary river terraces in England: Forms, sediments and processes. *Geomorphology*, 120, 293-311.
- Lewis, C.A. (2005) Introduction. In: Lewis, C.A. and Richards, A.E. (eds) *The glaciations of Wales and adjacent areas*. Logaston Press, Herefordshire, pp.1-16.
- Lewis, C.A. and Richards, A.E. (2005) *The glaciations of Wales and adjacent areas*. Logaston Press, Herefordshire.

- Lewis, S.G.; Maddy, D. and Scaife, R.G. (2001) The fluvial system response to abrupt climate change during the last cold stage: the Upper Pleistocene River Thames fluvial succession at Ashton Keynes, UK. *Global and Planetary Change*, 28, 341-359.
- Lewis S.G.; Maddy, D.; Buckingham, C.; Coope, G.R.; Field, M.H.; Keen, D.H.; Pike, A.W.G.; Roe, D.A.; Scaife, R.G. and Scott, K. (2006) Pleistocene fluvial sediments, palaeontology and archaeology of the upper River Thames at Latton, Wiltshire, England. *Journal of Quaternary Science*, 21, 2, 181-205.
- Lian, O.B. (2007) Optically-Stimulated Luminescence. In: Elias, S.A. (ed) *Encyclopedia of Quaternary Science*. Elsevier, London, pp. 1491-1505.
- Lian, B. and Roberts, R.G. (2006) Dating the Quaternary: progress in luminescence dating of sediments. *Quaternary Science Reviews*, 25, 2449-2468.
- Lindsey, D.A.; Langer, W.H. and Knepper Jnr., D.H. (2005) Stratigraphy, Lithology and Sedimentary Features of Quaternary Alluvial Deposits of the South Platte River and Some of its Tributaries East of the Front Range, Colorado. *Professional Paper 1705*. US Department of the Interior and USGS, Reston, Virginia.
- Lloyd Morgan, C. (1887) The Severn Tunnel Section. *Proceedings of the Bristol Naturalists Society*, 5, 82-94.
- Löffler, H. (1986) Ostracod analysis. In: Berglund, B.E. (ed) *Handbook of Holocene Palaeoecology and Palaeohydrology*. John Wiley & Sons Ltd., Chichester, pp. 693-702.
- Long, A.J.; Plater, A.J.; Waller, M.P. and Innes, J.B. (1996) Holocene coastal sedimentation in the Eastern English Channel: New data from the Romney Marsh region, United Kingdom. *Marine Geology*, 136, 97-120.
- Lowe, J.J. and Walker, M.J.C. (1997) *Reconstructing Quaternary Environments* (2nd ed). Longman, Harlow.
- Lowe, J.J.; Birks, H.H.; Brooks, S.J.; Coope, G.R.; Harkness, D.D.; Mayle, F.E.; Sheldrick, C.; Turney, C.S.M. and Walker, M.J.C. (1999) The chronology of palaeoenvironmental changes during the last Glacial-Holocene transition: towards an event stratigraphy for the British Isles. *Journal of the Geological Society, London*. 156, 397-410.

- Lowe, J.J.; Rasmussen, S.O.; Björck, S.; Hoek, W.Z.; Steffensen, J.P.; Walker, M.J.C.; Yu, Z.C. and the INTIMATE group (2008) Synchronisation of palaeoenvironmental events in the Northern Atlantic region during the Last Termination: a revised protocol recommended by the INTIMATE group. *Quaternary Science Reviews*, 27, 6-17.
- Ložek, V. (1986) Mollusca analysis. In: Berglund, B.E. (ed) *Handbook of Holocene Palaeoecology and Palaeohydrology*. John Wiley & Sons Ltd., Chichester, pp. 729-740.
- Lukas, S.; Corey, S.; Graf, A. and Schlüchter, C. (2009) The impact of mixing lithologies in clast shape measurements on its discriminatory power – a case study from a temperate Alpine glacier. *Geophysical Research Abstracts*, 11, 3313.
- Mackay, A.; Batterbee, R.; Birks, J. and Oldfield, F. (2003) *Global change in the Holocene*, Arnold, London.
- Macklin, M.G. and Hunt, C.O. (1988) Late Quaternary alluviation and valley floor development in the upper Axe Valley, Mendip, southwest England. *Proceedings of the Geologists' Association*, 99, 1, 49-60.
- Maddy, D. (1997) Uplift-driven valley incision and river terrace formation in southern England. *Journal of Quaternary Science*, 12, 6, 539-545.
- Maddy, D.; Green, C.P.; Lewis, S.G.; and Bowen, D.Q. (1995) Pleistocene geology of the lower Severn valley, UK. *Quaternary Science Reviews*, 14, 209-222.
- Maddy, D.; Lewis, S.G.; Scaife, R.G.; Bowen, D.Q.; Coope, G.R.; Green, C.P.; Hardaker, T.; Keen, D.H.; Rees-Jones, J.; Parfitt, S. and Scott, K. (1998) The Upper Pleistocene deposits at Cassington, near Oxford, England. *Journal of Quaternary Science*, 13, 3, 205-231.
- Maddy, D.; Bridgland, D.R. and Green, C.P. (2000) Crustal uplift in southern England: evidence from the river terrace records. *Geomorphology*, 33, 167- 181.
- Maddy, D. and Lewis, S.G. (2005) The lower Severn valley. In: Lewis, C.K. and Richards, A.E. (eds) *The glaciations of Wales and adjacent areas*. Logaston Press, Herefordshire, pp. 73-84.
- Marriott, S.B. (1996) Analysis and Modelling of Overbank Deposits. In: Anderson, M.G.; Walling, D.E. and Bates, P.D. (eds) *Floodplain Processes*. John Wiley & Sons, Chichester, pp. 63-93.

- Marriott, S.B. and Wright, V.P. (1993) Palaeosols as indicators of geomorphic stability in two Old Red Sandstone alluvial suites, South Wales. *Journal of the Geological Society, London*, 150, 1109-1120.
- Massey, A.C.; Paul, M.A.; Gehrels, W.R. and Charman, D.J. (2006a) Autocompaction in Holocene coastal back-barrier sediments from south Devon, southwest England, UK. *Marine Geology*, 226, 225-241.
- Massey, A.C.; Taylor, G.K.; Gehrels, W.R. and Charman, D.J. (2006b) Electrical Resistivity of Coastal Back-Barrier Sediments from South Devon, South-West England, United Kingdom. *Journal of Coastal Research*, 22, 5, 1179-1191.
- Masson-Delmotte, V.; Stenni, B.; Pol, K.; Bracannot, P.; Cattani, O.; Falout, S.; Kageyama, M.; Jouzel, J.; Landais, A.; Minster, B.; Barnola, J.M.; Chappellaz, J.; Krinner, G.; Johnsen, S.; Röthlisberger, R.; Hansen, J.; Mikolajewicz, U. and Otto-Bliesner, B. (2010) EPICA Dome C record of glacial and interglacial intensities. *Quaternary Science Reviews*, 29, 113-128.
- Mather, A.E. (1999) Alluvial Fans: a Case Study from the Sorbas Basin, Southeast Spain. In: Jones, A.P.; Tucker, M.E. and Hart, J. (eds) *The Description and Analysis of Quaternary Stratigraphic Field Sections: Technical Guide Number 7*. Quaternary Research Association, London, pp. 77-110.
- Matsuoka, N. (2001) Solifluction rates, processes and landforms: a global review. *Earth Science Reviews*, 55, 107-134.
- Matsuoka, N. (2010) Solifluction and Mudflow on a Limestone Periglacial Slope in the Swiss Alps: 14 Years of Monitoring. *Permafrost and Periglacial Processes*, 21, 219-240.
- Mauquoy, D. and Van Geel, B. (2007) Mire and Peat Macros. In: Elias, S.A. (ed) *Encyclopedia of Quaternary Science*. Elsevier, London, pp. 2315-2337.
- Mayle, F.E.; Bell, M.; Birks, H.H.; Brooks, S.J.; Coope, G.R.; Lowe, J.J.; Sheldrick, C.; Shijie Li; Turney, C.S.M. and Walker, M.J.C. (1999) Climate variations in Britain during the Last Glacial-Holocene transition (15.0-11.5 cal ka BP): comparison with the GRIP ice-core record. *Journal of the Geological Society, London*. 156, 411-423.
- McBride, E.F. (1971) Mathematical treatment of size distribution data. In: Carver, R.E. (ed) *Procedures in Sedimentary Petrology*. Wiley Interscience, London, pp. 109-127.

- McCabe, A.M. (1996) Dating and rhythmicity from the last deglacial cycle in the British Isles. *Journal of the Geological Society*, 153, 499-502.
- McCabe, A.M. and Clark, P.U. (1998) Ice-sheet variability around the North Atlantic Ocean during the last deglaciation. *Nature*, 392, 6674, 373-377.
- McCabe, M.; Knight, J. and McCarron, S. (1998) Evidence for Heinrich event 1 in the British Isles. *Journal of Quaternary Science*, 13, 6, 549-568.
- McCabe, A.M.; Clark, P.U. and Clark, J. (2005) AMS ^{14}C dating of deglacial events in the Irish Sea Basin and other sectors of the British-Irish ice sheet. *Quaternary Science Reviews*, 24, 1673-1690.
- McCarroll, D. (2002) Amino-acid geochronology and the British Pleistocene: secure stratigraphical framework or a case of circular reasoning? *Journal of Quaternary Science*, 17, 7, 647-651.
- McCarroll, D.; Stone, J.O.; Ballantyne, C.K.; Scourse, J.D.; Fifield, L.K.; Evans, D.J.A. and Hiemstra, J.F. (2010) Exposure-age constraints on the extent, timing and rate of retreat of the last Irish Sea ice stream. *Quaternary Science Reviews*, 29, 1844-1852.
- McCave, I.N.; Hill, I.R. and Bianci, G.G. (2006) Laser vs. settling velocity differences in silt grain size measurements: estimations of palaeocurrent vigour. *Sedimentology*, 53, 919-928.
- McClintock, D. and Fitter, R.S.R. (1956) *The Pocket Guide to Wild Flowers*. Collins, London.
- McMillan, A.A.; Hamblin, R.J.O. and Merritt, J.W. (2005) *An overview of the lithostratigraphical framework for Quaternary and Neogene deposits of Great Britain (onshore)*. British Geological Survey, Research Report RR/04/04, British Geological Survey, Keyworth, Nottingham.
- Meijer, T. and Preece, R.C. (2000) Review of the occurrence of *Corbicula* in the Pleistocene of North-West Europe. *Geologie en Mijnbouw/Netherlands Journal of Geosciences*, 79, 2-3, 241-255 (Abstract).
- Meijer, T. and Cleveringa, P. (2009) Aminostratigraphy of Middle and Late Pleistocene deposits in The Netherlands and the southern North Sea Basin. *Global and Planetary Change*, 68, 326-345.
- Meisch, C. (2000) Freshwater Ostracoda of western and central Europe. *Süßwasserfauna von Mitteleuropa* 8/3. Gustav Fischer, Stuttgart.

- Mejdahl, V. (1979) Thermoluminescence dating: beta-dose attenuation in quartz grains. *Archaeometry*, 21, 61-72.
- Mikutta, R.; Kleber, M.; Kaiser, K. and Jahn, R. (2005) Review: Organic Matter Removal from Soils using Hydrogen Peroxide, Sodium Hypochlorite and Disodium Peroxodisulfate. *Soil Science Society of America Journal*, 69, 120- 135.
- Miller, G.H.; Hollin, J.T. and Andrews, J.T. (1979) Aminostratigraphy of UK Pleistocene deposits. *Nature*, 281, 539-543.
- Mills, C.M. (1984) *The Environmental History of the Gordano Valley, Avon: A Palynological Investigation*. Unpublished M.A. Dissertation, University of Sheffield.
- Mills, H.H. (1979) Downstream rounding of pebbles – a quantitative review. *Journal of Sedimentary Petrology*, 49, 1, 295-302.
- Mol, J. (1997) Fluvial response to Weichselian climate changes in the Niederlausitz (Germany). *Journal of Quaternary Science*, 12, 1, 43-60.
- Mol, J.; Vandenberghe, J. and Kasse, C. (2000) River response to variations of periglacial climate in mid-latitude Europe. *Geomorphology*, 33, 131-148.
- Mooers, H.D. (1999) Comparison of loss on ignition and coulometric titration for determining carbonate content of till. *Glacial Geology and Geomorphology*, tn01/1998 <http://ggg.qub.ac.uk/ggg/papers/full/1999/tn011999/tn01.htm> Accessed 26 February 2008.
- Moore, P.D.; Webb, J.A. and Collinson, M.E. (1991) *Pollen Analysis* (2nd ed). Blackwell Science Ltd., Oxford.
- Moorkens, E. A. and Killeen, I. J. (2009) *Database of association with habitat and environmental variables for non-shelled slugs and bivalves of Britain and Ireland*. Irish Wildlife Manuals, No. 41. National Parks and Wildlife Service, Department of the Environment, Heritage and Local Government, Dublin, Ireland.
- Mourne, R.; Case, D. and Bull, P. (2000) The Paviland caves, Gower. In: Aldhouse-Green, S. (ed) *Paviland Cave and the 'Red Lady'*. Western Academic and Specialist Press Limited, Bristol, pp. 81-93.
- Mukerji, A.B. (1990) The Chandigarh Dun Alluvial Fans: An Analysis of the Process-Form Relationship. In: Rachocki, A.H. and Church, M. (eds) *Alluvial Fans: A Field Approach*. John Wiley & Sons Ltd., Chichester, pp. 131-149.

- Murray, A.S. and Wintle, A.G. (2000) Luminescence dating of quartz using an improved single-aliquot regenerative-dose protocol. *Radiation Measurements*, 32, 57-73.
- Murray, J.W. (1979) *British Nearshore Foraminiferids*. Synopses of the British Fauna N°16. The Linnaean Society of London and the Estuarine and Brackish-Water Sciences Association, Academic Press, London.
- Murray, J.W. and Hawkins, A.B. (1976) Sediment transport in the Severn Estuary during the past 8000-9000 years. *Journal of the Geological Society*, 132, 385-398.
- Murray, M.R. (2002) Is laser particle size determination possible for carbonate-rich lake sediments. *Journal of Palaeolimnology*, 27, 173-183.
- Murton, J.B.; Baker, A.; Bowen, D.Q.; Caseldine, C.J.; Coope, G.R.; Currant, A.P.; Evans, J.G.; Field, M.H.; Green, C.P.; Hatton, J.; Ito, M.; Jones, R.L.; Keen, D.H.; Kerney, M.P.; McEwan, R.; McGregor, D.F.M.; Parish, D.; Robinson, J.E.; Schreve, D.C. and Smart, P.L. (2001) A late Middle Pleistocene temperate-periglacial-temperate sequence (Oxygen Isotope Stages 7-5e) near Marsworth, Buckinghamshire, UK. *Quaternary Science Reviews*, 20, 1787-1825.
- Murton, J.B. and Kolstrup, E. (2003) Ice-wedge casts as indicators of palaeotemperatures: precise proxy or wishful thinking? *Progress in Physical Geography*, 27, 2, 155-170.
- Murton, J.B. and Belshaw, R.K. (2011) A conceptual model of valley incision, planation and terrace formation during cold and arid permafrost conditions of Pleistocene southern England. *Quaternary Research*, 75, 385-394.
- North Greenland Ice Core Project members (2004) High-resolution record of Northern Hemisphere climate extending into the last interglacial period. *Nature*, 431, 147-151.
- O’Cofaigh, C. and Evans, D.J.A. (2001) Sedimentary evidence for deforming bed conditions associated with a grounded Irish Sea glacier, southern Ireland. *Journal of Quaternary Science*, 16, 5, 435-454.
- O’Cofaigh, C. and Evans, D.J.A. (2007) Radiocarbon constraints on the age of the maximum advance of the British-Irish Ice Sheet in the Celtic Sea. *Journal of Quaternary Science*, 26, 1197-1203.

- Olsen, L. (1998) Pleistocene palaeosols in Norway: implications for past climate and glacial erosion. *Catena*, 34, 75-103.
- Orombelli, G.; Maggi, V. and Delmonte, B. (2010) Quaternary stratigraphy and ice cores. *Quaternary International*, 219, 55-65.
- Palmer, L.S. (1931) On the Pleistocene Succession of the Bristol District. *Proceedings of the Geologists' Association*, 42, 345-361.
- Palmer, L.S. (1934) Some Pleistocene breccias near the Severn Estuary. *Proceedings of the Geologists' Association*, 45, 145-161.
- Parfitt, S.A.; Ashton, N.M.; Lewis, S.G.; Abel, R.L.; Coope, G.R.; Field, M.H.; Gale, R.; Hoare, P.G.; Larkin, N.R.; Lewis, M.D.; Karloukovski, V.; Maher, B.A.; Peglar, S.M.; Preece, R.C.; Whittaker, J.E. and Stringer, C.B. (2010) Early Pleistocene human occupation at the edge of the boreal zone in northwest Europe. *Nature*, 466, 229-233.
- Pawley, S.M.; Rose, J.; Lee, J.R.; Moorlock, B.S.P.; Hamblin, R.J.O.; Booth, S.J. and Lee, J.R. (2004) Middle Pleistocene sedimentology and lithostratigraphy of Weybourne, northeast Norfolk, England. *Proceedings of the Geologists' Association*, 115, 25-42.
- Pawley, S.M.; Bailey, R.M.; Rose, J.; Moorlock, B.S.P.; Hamblin, R.J.O.; Booth, S.J. and Lee, J.R. (2008) Age limits on Middle Pleistocene glacial sediments from OSL dating, north Norfolk, UK. *Quaternary Science Reviews*, 27, 1363-1377.
- Pedley, M.; González Martín, J.A.; Ordóñez Delgado, S. and Ángeles García del Curas, M. (2003) Sedimentology of Quaternary perched springline and paludal tufas: criteria for recognition, with examples from Guadalajara Province, Spain. *Sedimentology*, 50, 23-44.
- Peltier, W.R. (2002) On eustatic sea level history: Last Glacial Maximum to Holocene. *Quaternary Science Reviews*, 21, 377-396.
- Peltier, W.R. and Fairbanks, R.G. (2006) Global glacial ice volume and Last Glacial Maximum duration from an extended Barbados sea level record. *Quaternary Science Reviews*, 25, 3322-3337.
- Penkman, K.E.H. (2009) Amino acid geochronology: its impact on our understanding of the Quaternary stratigraphy of the British Isles. *Journal of Quaternary Science*, 25, 4, 501-514.

- Penkman, K.E.H.; Preece, R.C.; Keen, D.H.; Maddy, D.; Schreve, D.C. and Collins, M.J. (2007) Testing the aminostratigraphy of fluvial archives: the evidence from intra-crystalline proteins within freshwater shells. *Quaternary Science Reviews*, 26, 2958-2969.
- Penkman, K.E.H.; Kaufman, D.S.; Maddy, D. and Collins, M.J. (2008) Closed-system behaviour of the intra-crystalline fraction of amino acids in mollusc shells. *Quaternary Geochronology*, 3, 2-25.
- Penkman, K.E.H.; Preece, R.C.; Keen, D.H. and Collins, M.J. (2010) Amino acid geochronology of the type Cromerian of West Runton, Norfolk, UK. *Quaternary International*, 228, 25-37.
- Pentecost, A. (1981) The tufa deposits of the Malham District, North Yorkshire. *Field Studies*, 5, 365-387.
- Petit, J.R.; Basile, I.; Leruyet, A.; Raynaud, D.; Lorius, C.; Jouzel, J.; Stievenard, M.; Lipenkov, V.Y.; Barker, N.I.; Kudryashov, B.B.; Davis, M.; Saltzman, E. and Kotlyakov, V.N. (1997) Four climate cycles in Vostok ice core. *Nature*, 387, 6631, 359-360.
- Pettijohn, F.J. (1975) *Sedimentary Rocks* (3rd ed). Harper & Row, New York.
- Pigati, J.S.; Quade, J.; Wilson, J.; Jull, A.J.T. and Lifton, N.A. (2007) Development of low-background vacuum extraction and graphitization systems for ¹⁴C dating of old (40-60 ka) samples. *Quaternary International*, 166, 4-14.
- Pounder, E.J. and Macklin, M.G. (1985) The alluvial fan at Burrington Coombe, Mendip: A study of its morphology and development. *Proceedings of the Bristol Naturalists' Society*, 45, 29-38.
- Powers, M.C. (1953) A new roundness scale for sedimentary particles. *Journal of Sedimentary Petrology*, 23, 2, 117-119.
- Preece, R.C. (1994) Radiocarbon dates from the 'Allerød soil' in Kent. *Proceedings of the Geologists' Association*, 105, 111-123.
- Preece, R.C. (1999) Mollusca from Last Interglacial fluvial deposits of the River Thames at Trafalgar Square, London. *Journal of Quaternary Science*, 14, 1, 77-89.
- Preece, R.C. (2001) Molluscan evidence for differentiation of interglacials within the 'Cromerian Complex'. *Quaternary Science Reviews*, 20, 1643-1656.
- Preece, R.C. (2010) The molluscan fauna of the Cromerian type site at West Runton, Norfolk. *Quaternary International*, 228, 53-62.

- Preece, R.C.; Parfitt, S.A.; Bridgland, D.R.; Lewis, S.G.; Rowe, P.J.; Atkinson, T.C.; Candy, I.; Debenham, N.C.; Penkman, K.E.H.; Rhodes, E.J.; Schwenninger, J.-L.; Griffiths, H.I.; Whittaker, J.E. and Gleed-Owen, C. (2007) Terrestrial environments during MIS 11: evidence from the Palaeolithic site at West Stow, Suffolk, UK. *Quaternary Science Reviews*, 26, 1236-1300.
- Preece, R.C.; Parfitt, S.A.; Coope, G.R.; Penkman, K.E.H.; Ponel, P. and Whittaker, J.E. (2009) Biostratigraphic and aminostratigraphic constraints on the age of the Middle Pleistocene glacial succession in north Norfolk, UK. *Journal of Quaternary Science*, 24, 6, 557-580.
- Prescott, G.W. (1969) *The Algae: A Review*. Thomas Nelson & Sons Ltd., London.
- Prescott, J.R. and Hutton, J.T. (1994) Cosmic ray contributions to dose rates for luminescence and ESR dating: large depths and long-term time variations. *Radiation Measurements*, 23, 497-500.
- Proctor, R. and Flather, R.A. (1989) Storm surge prediction in the Bristol Channel – the floods of 13 December 1981. *Continental Shelf Research*, 9, 10, 889-918.
- Reimer, P.J.; Baillie, M.G.R.; Bard, E.; Bayliss, A.; Beck, J.W.; Bertrand, C.J.H.; Blackwell, P.G.; Buck, C.E.; Burr, G.S.; Cutler, K.B.; Daman, P.E.; Edwards, R.L.; Fairbanks, R.G.; Friedrich, M.; Guilderson, T.P.; Hogg, A.G.; Hughen, K.A.; Kromer, B.; McCormack, G.; Manning, S.; Bronk Ramsey, C.; Reimer, R.W.; Remmele, S.; Southon, J.R.; Stuiver, M.; Talamo, S.; Taylor, F.W.; van der Plicht, J. and Wehenmeyer, C.E. (2004) INTCAL04 Terrestrial radiocarbon age calibration, 0-26 Cal Kyr BP. *Radiocarbon*, 46, 3, 1029-1058.
- Reineck, H.-E. and Singh, I.B. (1973) *Depositional Sedimentary Environments*. Springer-Verlag, Berlin.
- Renssen, H. and Vandenberghe, J. (2003) Investigation of the relationship between permafrost distribution in NW Europe and extensive sea-ice cover in the North Atlantic Ocean during the cold phases of the Last Glaciation. *Quaternary Science Reviews*, 22, 209-223.
- Retallack, G.J. (2001) *Soils of the Past* (2nd ed). Blackwell Science Ltd., Oxford.
- Reynolds, S.H. (1907) A Bone Cave at Walton, near Clevedon. *Proceedings of the Bristol Naturalists' Society*, 1, 183-187.
- Reynolds, S.H. (1916) The Carboniferous Limestone Series of the Avon between Clifton and Clevedon. *Proceedings of the Bristol Natural History Society*, 4, 86-197.

- Reynolds, S.H. (1934) *Bristol Geology and Geography*. J. W. Arrowsmith Ltd., Bristol.
- Richards A.E. (2005) Stratigraphy. In: Lewis, C.K. and Richards A.E. (eds) *The glaciations of Wales and adjacent areas*. Logaston Press, Herefordshire, pp. 17-26.
- Richards, B.W.M. (2000) Luminescence dating of Quaternary sediments in the Himalaya and High Asia: a practical guide to its use and limitations for constraining the timing of glaciation. *Quaternary International*, 65/66, 49-61.
- Rink, W. J.; Schwarcz, H.P.; Stuart, A.J.; Lister, A.M.; Marseglia, E. and Brennan, B.J. (1996) ESR dating of the type Cromerian freshwater bed at West Runton, U.K. *Quaternary Science Reviews (Quaternary Geochronology)* 15, 727-738.
- Roe, H.M.; Coope, G.R.; Devoy, R.J.N.; Harrison, C.J.O.; Penkman, K.E.H.; Preece, R.C. and Schreve, D.C. (2009) Differentiation of MIS 9 and MIS 11 in the continental record: vegetational, faunal, aminostratigraphic and sea-level evidence from coastal sites in Essex, UK. *Quaternary Science Reviews*, 28, 2342-2373.
- Rose, J. (2009) Early and Middle Pleistocene landscapes of eastern England. *Proceedings of the Geologists' Association*, 120, 3-33.
- Rose, J. (2010) The Quaternary of the British Isles: factors forcing environmental change. *Journal of Quaternary Science*, 25, 4, 399-418.
- Rose, J.; Lee, J.A.; Kemp, R.A. and Harding, P.A. (2000) Palaeoclimate, sedimentation and soil development during the Last Glacial Stage (Devensian), Heathrow Airport, London, UK. *Quaternary Science Reviews*, 19, 827-847.
- Rose, J.; Moorlock, B.S.P. and Hamblin, R.J.O. (2001) Pre-Anglian fluvial and coastal deposits in Eastern England: lithostratigraphy and palaeoenvironments. *Quaternary International*, 79, 5-22.
- Rose, J. and Coxon, P. (2010) The Quaternary of the British Isles and adjoining seas. *Journal of Quaternary Science*, 24, 4, 395-398.
- Round, F.E. (1973) *The Biology of the Algae* (2nd ed). Edward Arnold, London.
- Rowe, P.J.; Atkinson, T.C. and Turner, C. (1999) U-series dating of Hoxnian interglacial deposits at Marks Tey, Essex, England. *Journal of Quaternary Science*, 14, 7, 693-702.
- Rowell, D.L. (1994) *Soil Science Methods and Applications*. Pearson Education Ltd., Harlow.

- Sánchez-Goñi, M.F.; Eynaud, F.; Turon, J.L. and Shackleton, N.J. (1999) High resolution palynological record off the Iberian margin: direct land-sea correlation for the Last Interglacial complex. *Earth and Planetary Science Letters*, 171, 123-137.
- Sass, O. and Krautblatter, M. (2007) Debris flow-dominated and rockfall-dominated talus slopes: Genetic models derived from GPR measurements. *Geomorphology*, 86, 176-192.
- Schreve, D.C. (2001a) Differentiation of the British late Middle Pleistocene interglacials: the evidence from mammalian biostratigraphy. *Quaternary Science Reviews*, 20, 1693-1705.
- Schreve, D.C. (2001b) Mammalian evidence from Middle Pleistocene fluvial sequences for complex environmental change at the oxygen isotope substage level. *Quaternary International*, 79, 65-74.
- Schreve, D.C. (2009) A new record of Pleistocene hippopotamus from River Severn terrace deposits, Gloucester, UK – palaeoenvironmental setting and stratigraphical significance. *Proceedings of the Geologists' Association*, 120, 58-64.
- Schreve, D.C. and Thomas, G.N. (2001) Critical issues in European Quaternary Biostratigraphy. *Quaternary Science Reviews*, 20, 1577-1582.
- Schreve, D.C.; Bridgland, D.R.; Allen, P.; Blackford, J.J.; Gleed-Owen, C.P.; Griffiths, H.I.; Keen, D.H. and White, M.J. (2002) Sedimentology, palaeontology and archaeology of late Middle Pleistocene River Thames terrace deposits at Purfleet, Essex, UK. *Quaternary Science Reviews*, 21, 1423-1464.
- Schreve, D. and Candy, I. (2010) Interglacial climates: Advances in our understanding of warm climate episodes. *Progress in Physical Geography*, 34, 6, 845-856.
- Scourse, J. (1991) Glacial deposits of the Isles of Scilly. In: Ehlers, J.; Gibbard, P. and Rose, J. (eds) *Glacial deposits in Great Britain and Ireland*. Balkema, Rotterdam, pp. 291-300.
- Scourse, J.D. and Furze, M.F.A. (2001) A critical review of the glaciomarine model for Irish Sea deglaciation: evidence from southern Britain, the Celtic shelf and adjacent continental slope. *Journal of Quaternary Science*, 16, 5, 419-434.

- Scourse, J.D.; Coope, G.R.; Allen, J.R.M.; Lister, A.M.; Housley, R.A.; Hedges, R.E.M.; Jones, A.S.G. and Watkins, R. (2009) Late-glacial remains of woolly mammoth (*Mammathus primigenius*) from Shropshire, UK: stratigraphy, sedimentology and geochronology of the Conover site. *Geological Journal*, 44, 392-413.
- Selby, M.J. (1993) *Hillslope Materials and Processes* (2nd ed). Oxford University Press, Oxford.
- Shackleton, N.J. (2006) Formal Quaternary stratigraphy – What do we expect and need? *Quaternary Science Reviews*, 25, 3458-3462.
- Shakesby, R.A. and Matthews, J.A. (2002) Sieve deposition by debris flow on a permeable substrate, Leirdalen, Norway. *Earth Surface Processes and Landforms*, 27, 1031-1041.
- Siddall, M.; Rohling, E.J.; Blunier, T. and Spahni, R. (2010) Patterns of millennial variability over the last 500 ka. *Climate of the Past*, 6, 295-303.
- Simms, M.J. (1997) The geological history of the Mendip Hills and their margins. In: Hollowell, A. F. (ed) *The Mendip Hills*. Bristol Naturalists Society Special Issue No. 1. Bristol Naturalists Society, Ipswich, pp. 113-134.
- Simpson, I.M. and West, R.G. (1958) On the stratigraphy and palaeobotany of a Late-Pleistocene organic deposit at Chelford, Cheshire. *New Phytologist*, 57, 237-250.
- Slate, J.L. (1998) Hydromorphic-soil origin of carbonate glaebules in Pliocene palaeosols of southeastern Arizona. *Quaternary International*, 51-52, 60-61.
- Sletten, K. and Blikra, L.H. (2007) Holocene colluvial (debris-flow and water-flow) processes in eastern Norway: stratigraphy, chronology and palaeoenvironmental implications. *Journal of Quaternary Science*, 22, 6, 619-635.
- Smith, D.I. (1975) *Limestones and Caves of the Mendip Hills*. British Cave Research Association, Newton Abbott.
- Sneed, E.D. and Folk, R.L. (1958) Pebbles in the Lower Colorado River, Texas. A Study in Particle Morphogenesis. *Journal of Geology*, 66, 114-150.
- Sparks, B.W. (1964) Non-marine mollusca and Quaternary ecology. *The Journal of Animal Ecology*, 33, British Ecological Society Jubilee Symposium, 87-98.
- Steffen, D.; Preusser, F. and Schlunegger, F. (2009) OSL quartz age underestimation due to unstable signal components. *Quaternary Geochronology*, 4, 353-362.

- Steffenssen, J.; Andersen, K.; Bigler, M.; Clausen, H.; Dahl-Jensen, D.; Fischer, H.; Goto-Azuma, K.; Hansson, M.; Johnsen, S.; Jouzel, J.; Masson-Delmotte, V.; Popp, T.; Rasmussen, S.; Rothlisberger, R.; Ruth, U.; Stauffer, B.; Siggaard-Andersen, M.-L.; Sveinbjornsdottir, A.; Svensson, A. and White, J. (2008) High-resolution Greenland Ice Core Data Show Abrupt Climate Change Happens in Few Years. *Science*, 321, 5889, 680-684.
- Stenni, B.; Jouzel, J.; Masson-Delmotte, V.; Rothlisberger, R.; Castellano, E.; Cattani, O.; Falourd, S.; Johnsen, S.J.; Longinelli, A.; Sachs, J.P.; Selmo, E.; Sonchez, R.; Steffenson, J.P. and Udisti, R. (2003) A late-glacial high-resolution site and source temperature record derived from the EPICA Dome C isotope records (East Antarctica). *Earth and Planetary Science Letters*, 217, 183-195.
- Stephens, N. (1970) The Lower Severn Valley. In: Lewis, C.A. (ed) *The glaciations of Wales and adjoining regions*. Longman, London, pp. 107-124.
- Stewart Jr., H.B. (1958) Sedimentary reflections of depositional environment in San Miguel lagoon, Baja California, Mexico. *Bulletin of the American Association of Petroleum Geologists*, 42, 11, 2567-2618.
- Stocker, T.F. and Schilt, A. (2008) Greenhouse-gas fingerprints. *Nature*, 456, 331-333.
- Stokes, M.; Nash, D.J. and Harvey, A.M. (2007) Calcrete 'fossilisation' of alluvial fans in SE Spain: The roles of groundwater, pedogenic processes and fan dynamics in calcrete development. *Geomorphology*, 85, 63-84.
- Straw, A. (2011) The Saale glaciation of eastern England. *Quaternary Newsletter*, 123, 28-35.
- Stringer, C.B.; Curren, A.P.; Schwartz, H.P. and Collcutt, S.N. (1986) Age of Pleistocene faunas from Bacon Hole, Wales. *Nature*, 320, 59-62.
- Stuart, A.J. and Lister, A.M. (2001) The mammalian faunas of Pakefield/Kessingland and Corton, Suffolk, UK: evidence for a new temperate episode in the British early Middle Pleistocene. *Quaternary Science Reviews*, 20, 1677-1692.
- Stuart, A.J. and Lister, A.M. (2010) Introduction: The West Runton Freshwater Bed and the West Runton Mammoth. *Quaternary International*, 228, 1-7.

- Sun, D.; Bloemendal, J.; Rea, D.K.; Vandenberghe, J.; Jiang, F.; An, Z. and Su, R. (2002) Grain-size distribution function of polymodal sediments in hydraulic and aeolian environments, and numerical partitioning of the sedimentary components. *Sedimentary Geology*, 152, 263-277.
- Svensson, A.; Andersen, K.K.; Bigler, M.; Clausen, H.B.; Dahl-Jensen, D.; Davies, S.M.; Johnsen, S.J.; Muscheler, R.; Parrenin, F.; Rasmussen, S.O.; Rothlisberger, R.; Seierstad, I.; Steffensen, J.P. and Vinther, B.M. (2008) A 60 000 year Greenland stratigraphic ice core chronology. *Climate of the Past*, 4, 1235-1260 [on-line] European Geosciences Union <http://www.climpast.net/4/47/2008/> Accessed 8 October 2008.
- Sykes, G. (1991) Amino Acid Dating. In: Smart, P.L. and Frances, P.D. (eds) *Quaternary Dating Methods – A User's Guide*. Quaternary Research Association Technical Guide No 4, Quaternary Research Association, London, pp. 161-176.
- Tan, K.H. (2005) *Soil Sampling, Preparation and Analysis* (2nd ed). Taylor & Francis Group, Boca Raton, FL, USA.
- Tanner, W. F. (1991) Suite statistics: The hydrodynamic evolution of the sediment pool. In: Syvitski, J.P.M. (ed) *Principles, methods and application of particle size analysis*. Cambridge University Press, Cambridge, pp. 225-292.
- Tebbens, L.A.; Veldkamp, A.; Westerhoff, W. and Kroonenberg, S.B. (1999) Fluvial incision and channel downcutting as a response to Late-glacial and Early Holocene climate change: the lower reach of the River Meuse (Maas), The Netherlands. *Journal of Quaternary Science*, 14, 1, 59-75.
- Thomas, G.N. (2001) Late Middle Pleistocene pollen biostratigraphy in Britain: pitfalls and possibilities in the separation of interglacial sequences. *Quaternary Science Reviews*, 20, 1621-1630.
- Thomas, G.S.P. and Chiverrell, R.C. (2007) Structural and depositional evidence for repeated ice-marginal oscillation along the eastern margin of the Late Devensian Irish Sea Ice Stream. *Quaternary Science Reviews*, 26, 2375-2405.
- Torn, K.; Martin, G.; Kotta, J. and Kupp, M. (2010) Effects of different types of mechanical disturbances on a charophyte dominated macrophyte community. *Estuarine, Coastal and Shelf Science*, 87, 27-32.

- Trimmer, J. (1853) On the Southern Termination of the Erratic Tertiaries; and on the Remains of a Bed of Gravel on the Summit of Clevedon Down, Somersetshire. *Quarterly Journal of the Geological Society of London*, 9, 1, 282-286.
- Tucker, M.E. (2003) *Sedimentary Rocks in the Field* (3rd ed). The Open University Press, Milton Keynes.
- Tzedakis, P.C.; Andrieu, V.; de Beaulieu, J-L.; Crowhurst, S.; Follieri, M.; Hooghiemstra, H.; Magri, D.; Reille, M.; Sadori, L.; Shackleton, N.J. and Wijmstra, T.A. (1997) Comparison of terrestrial and marine records of changing climate of the last 500,000 years. *Earth and Planetary Science Letters*, 150, 171-176.
- United States Dept. of Agriculture (2000) *Munsell Soil Colour Charts*. gretamacbeth, New York.
- Ussher, W.A.E. (1914) A Geological Sketch of Brean Down and its environs, with special reference to the Marsh Deposits of Somerset. *Proceedings of the Somerset Archaeological and Natural History Society*, 40, 17-40.
- van Huissteden, J. and Kasse, C. (2001) Detection of rapid climate change in Last Glacial fluvial successions in The Netherlands. *Global and Planetary Change*, 28, 319–339.
- van Huissteden, J. (Ko); Gibbard, P.L. and Briant, R.M. (2001) Periglacial fluvial systems in northwest Europe during marine isotope stages 4 and 3. *Quaternary International*, 79, 75-88.
- van Vliet-Lanoe, B.; Laurent, M.; Bahain, J.L.; Balescu, S.; Falguères, C.; Field, M.; Halleégouët and Keen, D.H. (2000) Middle Pleistocene raised beach anomalies in the English Channel: regional and global stratigraphic implications. *Journal of Geodynamics*, 29, 15-41.
- Van den Berg, M.S.; Coops, H.; Simons, J. and de Keizer, A. (1998) Competition between *Chara aspera* and *Potamogeton pectinatus* as a function of temperature and light. *Aquatic Botany*, 60, 241-250.
- Vandenbergh, J. (2001) A typology of Pleistocene cold-based rivers. *Quaternary International*, 79, 111-121.
- Vandenbergh, J. (2008) The relation between climate and river processes, landforms and deposits during the Quaternary. *Quaternary International*, 91, 17–23.

- Vandenbergh, J.; Huijzer, B.S.; Múcher, H. and Laan, W. (1998) Short climatic oscillations in a western European loess sequence (Kesselt, Belgium). *Journal of Quaternary Science*, 13, 5, 471-485.
- Vandenbergh, J. and Nutgeren, G. (2001) Rapid climatic changes recorded in loess successions. *Global and Planetary Change*, 28, 1-9.
- Verrecchia, E. P. (2007) Lacustrine and Palustrine Geochemical Sediments. In: Nash, D.J. and McLaren, S.J. (eds) *Geochemical Sediments and Landscapes*. Blackwell Publishing Ltd., Oxford, pp. 298-329.
- Viles, H.A. and Pentecost, A. (2007) Tufa and Travertine. In: Nash, D.J. and McLaren, S.J. (eds) *Geochemical Sediments and Landscapes*. Blackwell Publishing Ltd., Oxford, pp. 173-199.
- Visher, G.S. (1969) Grain size distribution and depositional processes. *Journal of Sedimentary Petrology*, 39, 3, 1074-1106.
- Waddell, H. (1935) Volume, Shape and Roundness of Rock Particles. *Journal of Geology*, 40, 443-451.
- Waelbroek, C.; Labeyrie, L.; Michel, E.; Duplessy, J.C.; McManus, J.F.; Lambeck, K.; Balbon, E. and Labracherie, M. (2002) Sea-level and deep water temperature changes derived from benthic foraminifera isotopic records. *Quaternary Science Reviews*, 21, 295-305.
- Walker, M.J.C. (1995) Climatic changes in Europe during the last glacial-interglacial transition. *Quaternary International*, 28, 63-76.
- Walker, M.J.C. (2005) *Quaternary Dating Methods*. John Wiley & Sons Ltd., Chichester.
- Walker, M.J.C.; Bjorck, S.; Lowe, J.J.; Cwynar, L.C.; Johnsen, S.; Knudsen, K-L.; Wohlfarth, B. and the INTIMATE group (1999) Isotopic events in the GRIP ice core: a stratotype for the Late Pleistocene. *Quaternary Science Reviews*, 18, 1143-1150.
- Walker, M.J.C.; Bjorck, S. and Lowe, J.J. (2001) Integration of ice core, marine and terrestrial records (INTIMATE) from around the North Atlantic region: an introduction. *Quaternary Science Reviews*, 20, 1169-1174.

- Walker, M.J.C.; Coope, G.R.; Sheldrick, C.; Turney, C.S.M.; Lowe, J.J.; Blockley, S.P.E. and Harkness, D.D. (2003) Devensian Lateglacial environmental changes in Britain: a multi-proxy environmental record from Llanilid, South Wales, UK. *Quaternary Science Reviews*, 22, 475-520.
- Walker, M.; Johnsen, S.; Rasmussen, S.O.; Popp, T.; Steffensen, J.-P.; Gibbard, P.; Hoek, W.; Lowe, J.; Andrews, J.; Björck, S.; Cwynar, L.C.; Hughen, K.; Kershaw, P.; Kromer, B.; Litt, T.; Lowe, D.J.; Nakagawa, T.; Newnham, R. and Schwander, J. (2009) Formal definition and dating of the GSSP (Global Stratotype Section and Point) for the base of the Holocene using the Greenland NGRIP ice core, and selected auxiliary records. *Journal of Quaternary Science*, 24, 1, 3-17.
- Waller, M.P. and Long, A.J. (2003) Holocene coastal evolution and sea-level change on the southern coast of England: a review. *Journal of Quaternary Science*, 18, 3-4, 351-359.
- Waltham, A.C.; Simms, M.J.; Farrant, A.R. and Goldie, H.S. (1997) *Karst and Caves of Great Britain*. Geological Conservation Review Series, No. 12, Chapman and Hall, London.
- Waters, C.N.; Browne, M.A.E.; Dean, M.T. and Powell, J.H. (2007) *Lithostratigraphical framework for Carboniferous successions of Great Britain (Onshore)*. British Geological Survey Research Report RR/07/01. British Geological Survey, Keyworth, Nottingham.
- Watts, A.B.; McKerrow, W.S. and Fielding, E. (2000) Lithospheric flexure, uplift, and landscape evolution in south-central England. *Journal of the Geological Society, London*. 157, 1169-1177.
- Watts, A.B.; McKerrow, W.S. and Richards, K. (2005) Localized Quaternary uplift of south-central England. *Journal of the Geological Society, London*. 162, 13-24.
- Welch, F.B.A. (1948) *British Regional Geology: Bristol and Gloucester District*. H.M.S.O., London.
- Welch, F.B.A. and Trotter, F.M (1961) *Memoirs of the Geological Survey of Great Britain: Geology of the Country around Monmouth and Chepstow*. H.M.S.O., London.
- Wells, S.G. and Harvey, A.M. (1987) Sedimentologic and geomorphic variations in storm-generated alluvial fans, Howgill Fells, northwest England. *Geological Society of America Bulletin*, 98, 182-198.

- Weltje, G.T. and Prins, M.A. (2007) Genetically meaningful decomposition of grain-size distributions. *Sedimentary Geology*, 202, 409-424.
- Wentworth, C.K. (1922) A Field Study of the shapes of River Pebbles. *Geological Survey Bulletin*, 730-C, 103-114.
- West, R.G. (1963) Problems of the British Quaternary. *Proceedings of the Geologists' Association*, 74, 147-186.
- West, R.G. (1985) Climatic change in the Quaternary – evidence and ideas. *Journal of the Geological Society*, 142, 413-416.
- West, R.G.; Andrews, R.; Catt, J.A.; Hart, C.P.; Hollin, J.T.; Knudsen, K.-L.; Miller, G.F.; Penney, D.N.; Pettit, M.E.; Preece, R.C.; Switsur, V.R.; Whiteman, C.A. and Zhou, L.P. (1999) Late and Middle Pleistocene deposits at Somersham, Cambridgeshire, U.K.: a model for reconstructing fluvial/estuarine depositional environments. *Quaternary Science Reviews*, 18, 1247-1314.
- Westaway, R. (2008) Quaternary vertical crustal motion and drainage evolution in East Anglia and adjoining parts of southern England: chronology of the Ingham River terrace deposits. *Boreas*, 38, 261-284.
- Westaway, R. (2010a) Implications of recent research for the timing and extent of Saalian glaciation of eastern and central England. *Quaternary Newsletter*, 121, 3-23.
- Westaway, R. (2010b) Cenozoic uplift of southwest England. *Journal of Quaternary Science*, 25, 4, 419-432.
- Westaway, R.; Maddy, D. and Bridgland, D. (2002) Flow in the lower continental crust as a mechanism for the Quaternary uplift of south-east England: constraints from the Thames terrace record. *Quaternary Science Reviews*, 21, 559-603.
- Whalley, W.B. (1990) Physical Properties. In: Goudie, A. (ed) *Geomorphological Techniques*. Unwin Hyman Ltd., London, pp. 111-142.
- White, T.S.; Bridgland, D.R.; Westaway, R.; Howard, A.J. and White, M.J. (2010) Evidence from the Trent terrace archive, Lincolnshire, UK, for lowland glaciation of Britain during the Middle and Late Pleistocene. *Proceedings of the Geologists' Association*, 121, 141-153.
- Wilbur, K.M. and Yonge, C.M. (1964) *Physiology of Mollusca*. Academic Press, London.

- Williams, B.P.J. and Hancock, P.L. (1977) The sedimentology and structure of the Upper Palaeozoic rocks at Portishead. In: Savage, R.G.J. (ed) *Geological Excursions in the Bristol District*. University of Bristol, Bristol, pp. 29-46.
- Wilson, J.P. (2012) Digital terrain modelling. *Geomorphology*, 137, 107-121.
- Wintle, A. (2008) Luminescence dating of Quaternary sediments – Introduction. *Boreas*, 37, 469-470.
- Wintle, A.G. and Murray, A.S. (2006) A review of quartz optically stimulated luminescence characteristics and their relevance in single-aliquot regeneration protocols. *Radiation Measurements*, 41, 369-391.
- Worsley, P. (2005) The Cheshire-Shropshire Plain. In: Lewis, C.K. and Richards, A.E. (eds) *The glaciations of Wales and adjacent areas*. Logaston Press, Herefordshire, pp. 59-72.
- Worsley, P. and Collins, P.E.F. (1995) The geomorphological context of the Brimpton Late Pleistocene succession (south central England). *Proceedings of the Geologists' Association*, 106, 39-45.
- Wright, V.P. (2007) Calcrete. In: Nash, D.J. and McLaren, S.J. (eds) *Geochemical Sediments and Landscapes*. Blackwell Publishing Ltd., Oxford, pp. 10-45.
- Wright, V.P. and Marriott, S.B. (1996) A quantitative approach to soil occurrence in alluvial deposits and its application to the Old Red Sandstone of Britain. *Journal of the Geological Society, London*, 153, 907-913.
- Wright, V.P. and Platt, N.H. (1995) Seasonal wetland carbonate sequences and dynamic catenas: a re-appraisal of palustrine limestones. *Sedimentary Geology*, 99, 65-71.
- Zimmermann, D.W. (1971) Thermoluminescence dating using fine grains from pottery. *Archaeometry*, 13, 29-50.
- Zingg, T. (1935) Beitrage zur Schotteranalyse. *Schweizerische Mineralogische Petrographische Mitteilungen*, 15, 38-140.
- Zhou, J. and Chafetz, H.S. (2009) The genesis of late Quaternary caliche nodules in Mission Bay, Texas: stable isotope compositions and palaeoenvironmental interpretation. *Sedimentology*, 56, 1392-1410.