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Rhynie, A Powerful Place of Pictland

Edited by Gordon Noble

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BIBLIOGRAPHY

- Abdn. Reg. = Innes, C (ed) 1845 *Registrum Episcopatus Aberdonensis, Ecclesie Cathedralis Aberdonensis regesta que extant in unum collecta*, 2 vols. Edinburgh: Spalding Club.
- Aberdeen Archaeological Surveys 1979 'Aerial Reconnaissance', *Discovery and Excavation in Scotland* 1979: 12.
- Aberdeen-Banff Illust. = Robertson, J (ed) 1847–69 *Illustrations of the Topography and Antiquities of the Shires of Aberdeen and Banff*, 4 vols. Aberdeen: Spalding Club.
- Ahituv, H & Henry, A 2022 'An initial key of starch grains from edible plants of the Eastern Mediterranean for use in identifying archaeological starches', *Journal of Archaeological Science: Reports* 42: 103396.
- Albert, R M & Weiner, S 2001 'Study of phytoliths in prehistoric ash layers from Kebara and Tabun caves using a quantitative approach', in Meunier, J D & Colin, F (eds) *Phytoliths: Applications in Earth Sciences and Human History*, 251–66. Lisse: Balkema Publishers.
- Albert, R M, Lavi, O, Estroff, L, Weiner, S, Tsatskin, A, Ronen, A & Lev-Yadun, S 1999 'Mode of occupation of Tabun Cave, Mt Carmel, Israel during the Mousterian Period: a study of the sediments and phytoliths', *Journal of Archaeological Science* 26: 1249–60.
- Alcock, L 1963 *Dinas Powys: An Iron Age, Dark Age and Early Medieval Settlement in Glamorgan*. Cardiff: University of Wales Press.
- Alcock, L 1972 'By South Cadbury is that Camelot . . .' *The excavation of Cadbury Castle 1966-70*. London: Thames & Hudson.
- Alcock, L 1988 'The activities of potentates in Celtic Britain, AD 500–800: a positivist approach', in Driscoll, S T & Nieke, M (eds) *Power and Politics in Early Medieval Britain and Ireland*, 22–46. Edinburgh: Edinburgh University Press.
- Alcock, L 1995 *Cadbury Castle Somerset: The Early Medieval Archaeology*. Cardiff: University of Wales Press.
- Alcock, L 1996 'Ur-symbols in the pictograph-system of the Picts', *Pictish Arts Society Journal* 9: 2–5.
- Alcock, L 2003 *Kings and Warriors, Craftsmen and Priests in Northern Britain AD 550–850*. Edinburgh: Society of Antiquaries of Scotland.
- Alcock, L & Alcock, E A 1987 'Reconnaissance excavations on Early Historic fortifications and other royal sites in Scotland, 1974–84: 2, excavations at Dunollie Castle, Oban, Argyll, 1978', *Proc Soc Antiq Scot* 117: 119–49.
- Alcock, L & Alcock, E A 1990 'Reconnaissance excavations on Early Historic fortifications and other royal sites in Scotland, 1974–84: 4, excavations at Alt Glut, Clyde Rock, Strathclyde, 1974–75', *Proc Soc Antiq Scot* 120: 95–149.
- Alcock, L & Alcock, E A 1992 'Reconnaissance excavations on Early Historic fortifications and other royal sites in Scotland, 1974–84: 5: A, excavations and other fieldwork at Forteviot, Perth-shire, 1981; B excavations at Urquhart Castle, Inverness-shire, 1983; C, excavations at Dunnottar, Kincardineshire, 1984', *Proc Soc Antiq Scot* 122: 215–87.
- Alcock, L, Alcock, E A & Foster, S M 1986 'Reconnaissance excavations of Early Historic fortification and other royal sites in Scotland, 1974–84: 1, excavations near St Abb's Head, Berwickshire, 1980', *Proc Soc Antiq Scot* 120: 255–79.
- Alcock, L, Alcock, E A & Driscoll, S T 1989 'Reconnaissance excavations on Early Historic fortifications and other royal sites in Scotland, 1974–84: 3: excavations at Dundurn, Strathearn, Perthshire, 1976–77', *Proc Soc Antiq Scot* 119: 189–226.
- Alcock, L, Alcock, E, Bateson, J & Webster, P 1992 'Excavations at Alt Clut, 1974–5: catalogue of coins, metal objects and Romano-British pottery', *Proc Soc Antiq Scot* 122: 289–93.
- Alcock, L, Stenvenson, S J & Musson, C R (eds) 1995 *Cadbury Castle, Somerset: The Early Medieval Archaeology*. Cardiff: University of Wales Press.
- Alexander, W M 1952 *The Place-Names of Aberdeenshire*. Aberdeen: Spalding Club.
- Allen, J & Anderson, J 1903 (1993 reprint) *The Early Christian Monuments of Scotland*. Balgavies: Pinkfoot Press.
- Alves, L B & Reis, M 2017 'Tattooed landscapes. A reassessment of Atlantic art distribution, research methods and chronology in the light of the discovery of a major rock art assemblage at Monte Faro (Valença, Portugal)', *Zephyrus* 80.
- Anderson, J 1779 'An account of ancient monuments and fortifications in the Highlands of Scotland', *Archaeologia* 5: 241–66.
- Anderson, J 1782 'A further description of ancient fortifications in the North of Scotland', *Archaeologia* 6: 87–99.
- Anderson, M O 2011 *Kings and Kingship in Early Scotland*. Edinburgh: John Donald.
- Anderson, A O (trans) 1922 (1990 reprint) *Early Sources of Scottish History A.D. 500 to 1286*, 2 vols. Stamford: Paul Watkins.
- Anderson, A O & Anderson, M O (eds and trans) 1991 *Adomnán's Life of Columba* (revised ed). Oxford: Clarendon Press.
- Anderson, A O, Anderson, M O & Dickinson, W C 1936 *The Chronicle of Melrose from the Cottonian Manuscript, Faustina B. IX in the British Museum*. London: Percy Lund Humphries & Co.
- Armit, I 1997 *Celtic Scotland*. London: B. T. Batsford.
- Armit, I 2016 *Celtic Scotland*, new ed. London: B. T. Batsford.
- Armit, I & Büster, L 2020 *Darkness Visible: The Sculptor's Cave, Covesea, from the Bronze Age to the Picts*. Edinburgh: Society of Antiquaries of Scotland.
- Armit, I & McKenzie, J 2013 *An Inherited Place: Broxmouth Hillfort and the South-East Scottish Iron Age*. Edinburgh: Society of Antiquaries of Scotland.
- Armit, I & Ralston, I A G 2003 'The Iron Age', in Edwards, K J & Ralston I A G (eds) *Environment and Archaeology 8000 BC to AD 1000*, 169–93. Edinburgh: John Wiley & Sons.

- Armit, I, Dunwell, A & Hunter, F 2002 'The Hill at the Empire's edge; recent work on Traprain Law', *Trans East Lothian Antiquarian and Field Naturalists' Society* 25: 1–11.
- Armit, I, Dunwell, A, Hunter, F, McCartney, M & Nelis, E 2006 'Traprain Law', *Current Archaeology* 203: 602–7.
- Armit, I, Campbell, E & Dunwell, A 2008 'Excavation of an Iron Age, Early Historic and medieval settlement and metalworking site at Eilean Olabhat, North Uist', *Proc Soc Antiq Scot* 138: 27–104.
- Arnold, C J 1997 *An Archaeology of the Early Anglo-Saxon Kingdoms*. London: Routledge.
- Arnold, C J & Davies J L (eds) 2001 *Roman and Early Medieval Wales*. Stroud: The History Press.
- Ashmore, P J 1980 'Low cairns, long cists and symbol stones', *Proc Soc Antiq Scot* 110: 346–55.
- Ashmore, P 2003 'Orkney burials in the first millennium AD', in Downes, J & Ritchie, A (eds) *Sea Change: Orkney and Northern Europe in the Later Iron Age AD 300-800*, 35–50. Balgavies: Pinkfoot Press.
- Atkinson, D 2007 'Mither Tap, Bennachie, Aberdeenshire (Oyne parish), watching brief, radiocarbon dating', *Discovery and Excavation in Scotland* 8: 28.
- Bailey, G B 2007 'An early timber hall at Callendar Park, Falkirk', *Calatria* 24: 37–58.
- Baker, P & Worley, F 2019 *Animal Bones and Archaeology: Recovery to Archive*. Swindon: Historic England.
- Bakker, M & van Smeerdijk, D G 1982 'A palaeoecological study of a late Holocene section from "Het Ilperveld", Western Netherlands', *Review of Palaeobotany and Palynology* 36: 95–163.
- Ballin Smith, B 1994 *Howe: Four Millennia of Orkney Prehistory*. Edinburgh: Society of Antiquaries of Scotland.
- Banham, D, 2010 "'In the sweat of thy brow shalt thou eat bread": cereals and cereal production in the Anglo-Saxon landscape', in Higham, N J & Ryan, M J (eds) *The Landscape Archaeology of Anglo-Saxon England*, 175–92. Manchester: Boydell & Brewer.
- Banham, D & Faith, R 2014 *Anglo-Saxon Farms and Farming*. Oxford: Oxford University Press.
- Baptista, A M 1987 'Arte Rupestre pós-glaciária. Esquematismo e abstracção', in Cuñarro, J M H (ed) *História da Arte em Portugal* vol 1, 31–55. Lisbon: Eixo Atlântico.
- Barclay, G J 2001 'The excavation of an early medieval enclosure at Upper Gothens, Meikleour, Perthshire', *Tayside and Fife Archaeological Journal* 7: 34–44.
- Barclay, G J 2005 'The 'henge' and 'henigform' in Scotland', in Cummings, V & Pannett, A (eds) *Set in Stone. New Approaches to Neolithic Monuments in Scotland*, 81–94. Oxford: Oxbow Books.
- Barfod, G H, Feveile, C & Sindbæk, S M 2022 'Splinters to splendours: from upcycled glass to Viking beads at Ribe, Denmark', *Archaeological and Anthropological Sciences* 14: 1–25.
- Barnes, I 1983 'The analysis and recreation of bronzes and brass mould residues', in Bryce, T & Tate, J (eds) *The Laboratories of the National Museum of Scotland*, vol 2, 40–4. Edinburgh: National Museums Scotland.
- Barrett, J C 1994 *Fragments From Antiquity: An Archaeology of Social Life in Britain, 2900–1200 BC*. Oxford: Blackwell.
- Barrow, G W S 1975 'The pattern of lordship and feudal settlement in Cumbria', *Journal of Medieval History* 1: 117–38.
- Barrow, G W S 1981 *Kingship and Unity: Scotland 1000-1306*. Edinburgh: Edinburgh University Press.
- Barrow, G W S 1988 'Badenoch and Strathspey, 1130-1312. 1 Secular and Political', *Northern Scotland* 8: 1–15.
- Barrow, G W S 2003 *The Kingdom of the Scots*, 2nd ed. Edinburgh: Edinburgh University Press.
- Barrowman, R C, Batey, C E & Morris, C D 2007 *Excavations at Tintagel Castle, Cornwall, 1990-1999*. London: Society of Antiquaries.
- Barton, H, 2007 'Starch residues on museum artefacts: implications for determining tool use', *Journal of Archaeological Science* 34: 1752–62.
- Bassett, S 1989 'In search of the origins of Anglo-Saxon kingdoms', in Bassett, S (ed) *The Origins of Anglo-Saxon Kingdoms*, 3–27. Leicester: Leicester University Press.
- Bathurst, R R, Zori, D & Byock, J 2010 'Diatoms as bioindicators of site use: locating turf structures from the Viking Age', *Journal of Archaeological Science* 37: 2920–8.
- Bayley, J 1991 'Anglo-Saxon non-ferrous metalworking: a survey', *World Archaeology* 23(1): 115–30.
- Bayley, J 1992 'Non-ferrous Metalworking in England: Late Iron Age to Early Medieval', unpublished PhD thesis, University College London.
- Beam, A, Bradley, J, Broun, D, Davies, J R, Hammond, M, Jakeman, N, Pasin, M & Taylor, A 2019 *People of Medieval Scotland: 1093–1371*. www.poms.ac.uk. Accessed 17 April 2024.
- Bell, C 1992 *Ritual Theory, Ritual Practice*. Oxford: Oxford University Press.
- Bell, E W 1893 'Notes on the British fort on Castle Law, at Forgan-denny, Perthshire, partially excavated during the summer of 1892', *Proc Soc Antiq Scot* 27: 14–22.
- Bemmann, J, 1994 'Zur zeitlichen Ordnung von Waffengräbern der jüngeren römischen Kaiserzeit in Norwegen', in von Carnap-Bornheim, C (ed), *Beiträge zu römischer und barbarischer Bewaffnung in den ersten vier nachchristlichen Jahrhunderten Akten ses 2 Internationalen Kolloquiums in Marburg a d Lahn, 20 bis 24 Februar 1994*, Veröffentlichungen ses Vorgeschiedlichen Seminars Marburg, Sonderband, 179–88. Lublin: Marburg.
- Bentley R A 2006 'Strontium isotopes from the earth to the archaeological skeleton: a review', *Journal of Archaeological Method and Theory* 13(3): 135–87.
- Berrocal-Rangel L, García-Giménez R, Ruano L & Vigil de la Villa R 2019 'Vitrified walls in the Iron Age of Western Iberia: new research from an archaeometric perspective', *European Journal of Archaeology* 22(2): 185–209.
- Bérubé, É, Hepp, G D & Morell-Hart, S 2020 'Paleoethnobotanical evidence of Early Formative period diet in coastal Oaxaca, Mexico', *Journal of Archaeological Science Reports* 29: 102047.
- Bhreathnach, E 2014 *Ireland in the Medieval World, ad 400–1000: Landscape, Kinship and Religion*. Dublin: Four Courts Press.
- Bidwell, P 2019 *Lower Nene Valley Roman pottery on the northern frontiers of Roman Britain*. https://www.nenevalleyarchaeology.co.uk/lower-nene-valley-pottery-on-the-no. Accessed 3 January 2024.
- Bidwell, P & Croom, A 2010 'The supply and use of pottery on Hadrian's Wall in the 4th century AD', in Collins, R & Allason-Jones, L (eds) *Finds from the Frontier. Material Culture in the 4th and 5th Centuries*, CBA Research Report 162, 20–36. York: Council for British Archaeology.
- Bidwell, P & Speak, S 1994 *Excavations at South Shields Roman Fort: Volume I*. Newcastle: Society of Antiquaries of Newcastle upon Tyne.
- Birch, T 2013 'Does pattern welding make Anglo-Saxon swords stronger?', in Dungworth, D & Doonan, R (eds) *Accidental and Experimental*

BIBLIOGRAPHY

- Metallurgy*, 127–34. Tunbridge Wells: Historical Metallurgy Society.
- Birks, H J B & Birks, H 1980 *Quaternary Palaeoecology*. Baltimore: University Park Press.
- Black, G 1893 ‘Scottish charms and amulets’, *Proc Soc Antiq Scot* 27: 433–526.
- Blackwell, A 2018 ‘A Reassessment of the Anglo-Saxon Artefacts from Scotland: Material Interaction and Identities in Early Medieval Northern Britain’, unpublished PhD thesis, University of Glasgow.
- Blackwell, A, Goldberg, M and Hunter, F 2017 *Scotland’s Early Silver: Transforming Roman Pay-offs to Pictish Treasures*. Edinburgh: National Museums Scotland.
- Blair, J 1995 ‘Anglo-Saxon pagan shrines and their prototypes’, in Griffiths, D (ed) *Anglo-Saxon Studies in Archaeology and History*, vol 8, 1–28. Oxford: University of Oxford Committee for Archaeology.
- Blair, J 2018 *Building Anglo-Saxon England*. Oxford: Princeton University Press.
- Bogucki, P 2004 ‘Late Bronze Age urnfields of Central Europe’, in Bogucki, P & Crabtree, P (eds) *Ancient Europe: 8000 BC-AD 1000, Encyclopaedia of the Barbarian World*, 86–91. New York: Charles Scribner & Sons.
- Bond, J M 2002 ‘Pictish Pigs and Celtic Cowboys: Food and Farming in the Atlantic Iron Age’, in Banks, I & Ballin-Smith, B (eds) *In the Shadow of the Brochs: The Iron Age in Scotland*, 177–84. Stroud, Gloucestershire: Tempus.
- Bond, J M, Nicholson, R A, & Cussans, J E 2015 ‘Biological Evidence’, in Dockrill, S J, Bond, J M, Turner, V E, Brown, L D, Bashford, D J, Cussans, J E, & Nicholson, R A (eds) *Excavations at Old Scatness, Shetland. Volume 2, The Broch and Iron Age Village*, 131–205. Lerwick: Shetland Heritage Publications.
- Bornfalk-Back, A 2022 ‘The vitrified wall of Broborg hillfort in Uppland, Sweden – a comment on Sjöblom et al. (2022)’, *Journal of Archaeological Science: Reports* 48: 1–4.
- Bowden, M & Jamieson, L E 2016 *Tintagel Castle and Island, Cornwall: Archaeological Survey Enhancement*. Historic England Research Report Series No 33. Swindon: Historic England.
- Bradley, J 2011 ‘An early medieval crannog at Moynagh Lough, Co. Meath’, in Corlett, C & Potterton, M (eds) *Settlement in Early Medieval Ireland in the Light of Recent Archaeological Excavations*, Research Papers in Irish Archaeology No. 3, 11–34. Dublin: Wordwell.
- Bradley, R 1987 ‘Time regained: the creation of continuity’, *Journal of the British Archaeological Association* 140: 1–17.
- Bradley, R 2005a *The Moon and the Bonfire: An Investigation of the Three Stone Circles in Northeast Scotland*. Edinburgh: Society of Antiquaries of Scotland.
- Bradley, R 2005b *Ritual and Domestic Life in Prehistoric Europe*. London: Routledge.
- Brander, R 2014 *Over the Hills Tae Huntly: Hielan’ Ways In Former Days*. Huntly: Deveron Arts.
- Brather, S 2006 ‘Acculturation and Ethnogenesis along the Frontier: Rome and the Ancient Germans in an Archaeological Perspective’, in Curta, F (ed) *Borders, Barriers, and Ethnogenesis. Frontiers in Late Antiquity and the Middle Ages*, 139–72. Turnhout: Brepols.
- Breeze, D J 1982 *The Frontiers of Roman Britain*. London: Batsford.
- Brennan, N & Hamerow, H 2015 ‘An Anglo-Saxon great hall complex at Sutton Courtenay/Drayton, Oxfordshire: a royal centre of early Wessex?’, *Archaeological Journal* 172: 325–50.
- Brewer, W F 1996 ‘What is recollective memory?’, in Rubin, D C (ed) *Remembering our Past: Studies in Autobiographical Memory*, 19–66. Cambridge: Cambridge University Press.
- Brink, S 1996 ‘Political and social structures in early Scandinavia. A settlement-historical pre-study of the central place’, *Tor* 28: 235–81.
- Brink, S 1999 ‘Social order in the early Scandinavian landscape’, in Fabech, C & Ringtved, J (eds) *Settlement and Landscape: Proceedings of a Conference in Århus, Denmark, May 4-7 1998*, 423–39. Højbjerg: Jutland Archaeological Society.
- Brink, S 2004 ‘Legal assembly sites in early Scandinavia’, in Pantos, A & Semple, S (eds) *Assembly Places and Practices in Medieval Europe*, 205–16. Dublin: Four Courts Press.
- Britton, K 2017 ‘A stable relationship: isotopes and bioarchaeology are in it for the long haul’, *Antiquity* 91(358): 853–64.
- Britton, K 2020 ‘Isotope analysis for mobility and climate studies’, in Britton K & Richards M (eds) *Archaeological Science: An Introduction*, 99–124. Cambridge: Cambridge University Press.
- Britton, K, Grimes, V, Dau, J & Richards, M P 2009 ‘Reconstructing faunal migrations using intra-tooth sampling and strontium and oxygen isotope analyses: a case study of modern caribou (*Rangifer tarandus granti*)’, *Journal of Archaeological Science* 36(5): 1163–72.
- Britton, K, Gaudzinski-Windheuser, S, Roebroeks, W, Kindler, L & Richards, M P 2012 ‘Stable isotope analysis of well-preserved 120,000-year-old herbivore bone collagen from the Middle Palaeolithic site of Neumark-Nord 2, Germany reveals niche separation between bovinds and equids’, *Palaeogeography, Palaeoclimatology, Palaeoecology* 333–4: 168–77.
- Britton, K, Fuller, B T, Tutken, T, Mays, S & Richards, M P 2015 ‘Oxygen isotope analysis of human bone phosphate evidences weaning age in archaeological populations’, *American Journal of Physical Anthropology* 157(2): 226–41.
- Bronk Ramsey, C 2009 ‘Bayesian Analysis of Radiocarbon Dates’, *Radiocarbon* 51(1): 337–60. doi:10.1017/S0033822200033865
- Bronk, H, & Freestone I C 2001 ‘A Quasi Non-destructive Microsampling Technique for the Analysis of Intact Glass Objects By SEM/EDXA’, *Archaeometry* 43(4) (2001): 517–27. https://doi.org/10.1111/1475-4754.00034
- Brophy, K & Noble, G 2020 *Prehistoric Forteviot*. York: Council for British Archaeology.
- Broun, D 1999 *The Irish Identity of the Kingdom of the Scots in the Twelfth and Thirteenth Centuries*. Woodbridge: Boydell.
- Broun, D 2000 ‘The seven kingdoms in De situ Albanie: a record of Pictish political geography or an imaginary map of Alba?’, in Cowan, E J & McDonald, R A (eds) *Alba: Celtic Scotland in the Middle Ages*, 24–42. East Linton: Tuckwell Press.
- Broun, D 2007 *Scottish Independence and the Idea of Britain from the Picts to Alexander III*. Edinburgh: Edinburgh University Press.
- Broun, D 2015 ‘Statehood and lordship in ‘Scotland’ before the mid-twelfth century’, *The Innes Review* 66(1): 1–71.
- Broun, D forthcoming (a) ‘The origins of the mormaer’, in Brown, M (ed) *Earls and Earldoms in Medieval Scotland*. Woodbridge: Boydell.
- Broun, D forthcoming (b) ‘Doldauha and the origins of the dabach in Pictland’, in Clancy, T O, Hough, C & Williamson, E (eds) *Onomastications: A Festschrift for Simon Taylor*. Glasgow: Clò Gàidhlig Oilthigh Ghlaschu.
- Brown, L D 2010 ‘Glass’, in Dockrill, S J, Bond, J M, Turner, V E, Brown, L D, Bashford, D J, Cussans, J E M & Nicholson, R A (eds) *Excavations*

- at *Old Scatness, Shetland Volume 1: The Pictish Village and Viking Age settlement*, 347–8. Lerwick: Shetland Heritage Publications.
- Brown, L D 2015 ‘Glass’, in Dockrill, S J, Bond, J M, Turner, V E, Brown, L D, Bashford, D J, Cussans, J E M & Nicholson, R A (eds) *Excavations at Old Scatness, Shetland Volume 2: The Broch and Iron Age Village*, 428–32. Lerwick: Shetland Heritage Publications.
- Brown, A G, Carpenter, R G & Walling, D E 2007 ‘Monitoring fluvial pollen transport, its relationship to catchment vegetation and implications for palaeoenvironmental studies’, *Review of Palaeobotany and Palynology* 147(1–4): 60–76.
- Brown T A, Nelson D E, Vogel J S & Southon J R 1988 ‘Improved collagen extraction by modified Longin method’, *Radiocarbon* 30(2): 171–7.
- Bruce-Mitford, R 1983 *The Sutton Hoo Ship Burial*. London: British Museum.
- Bruce-Mitford, R L S & Luscombe, M R 1974 ‘The Benty Grange helmet’, in Bruce-Mitford (ed) *Aspects of Anglo-Saxon Archaeology: Sutton Hoo and Other Discoveries*, 223–52. London: Victor Gollancz.
- Brück, J 1999 ‘Ritual and rationality: some problems of interpretation in European archaeology’, *European Journal of Archaeology* 2(3), 313–44.
- Brück, J 2001 ‘Body metaphors and technologies of transformation in the English Middle and Late Bronze Age’, in Brück, J (ed) *Bronze Age Landscapes: Tradition and Transformation*, 149–60. Oxford: Oxbow.
- Brugmann, B 2004 *Glass beads from Early Anglo-Saxon Graves*. Oxford: Oxbow Books.
- Buck, C E, Cavanagh, W G, & Litton, C D 1996 *Bayesian Approach to Interpreting Archaeological Data*. Chichester: John Wiley & Sons.
- Budd, P & Taylor, T 1995 ‘The faerie smith meets the bronze industry: magic versus science in the interpretation of prehistoric metal-making’, *World Archaeology* 27: 133–43.
- Bulloch, J M (ed) 1903 *The House of Gordon*, vol 1. Aberdeen: Aberdeen University.
- Burgess, C B 1972 ‘Goatscrag: a Bronze Age rock shelter cemetery in north Northumberland. With notes on other rock shelters and crag lines in the region’, *Archaeologia Aeliana* 50: 15–69.
- Burrow, I C G 1974 ‘Tintagel – some problems’, *Scottish Archaeological Forum* 5: 99–103.
- Byrne, F J 2001 *Irish Kings and High-Kings*, 2nd ed. Dublin: Four Courts.
- Caldwell, D H 2003 ‘Finlaggan, Islay – stones and inauguration ceremonies’, in Wellander, R, Breeze, D J & Clancy, T O (eds) *The Stone of Destiny: Artefact and Icon*, 61–75. Edinburgh: Society of Antiquaries of Scotland.
- Callander, J G & Grant, W G 1933 ‘The broch of Midhowe, Rousay, Orkney’, *Proc Soc Antiq Scot* 68: 444–516.
- Callmer, J 1991 ‘Territory and dominion in the late Iron Age in southern Scandinavia’, in Jennbert, K, Larsson, L, Petré, R & Wyszomirska-Werbart, B (eds) *Regions and Reflections. In Honour of Märtha Strömberg*, 257–73. Lund: Almqvist & Wiksell.
- Cameron, A C 1899 *The History of Fettercairn*. Paisley: J and R Parlane.
- Campbell, E 1991 ‘Excavation of a wheelhouse and other Iron Age structures at Sollas, North Uist, by R J C Atkinson in 1957’, *Proc Soc Antiq Scot* 121: 117–73.
- Campbell, E 1998 ‘Metalwork and metalworking evidence’, in Sharples, N (ed) *Scalloway: A Broch, Late Iron-age Settlement and Medieval Cemetery in Shetland*, 93–4; 134; 149; 157–69; 183–4; 201. Oxford: Oxbow.
- Campbell, E 2003 ‘Royal inauguration in Dál Riata and the Stone of Destiny’, in Wellander, R, Breeze, D & Clancy, T (eds) *The Stone of Destiny. Artefact and Icon*, 43–59. Edinburgh: Society of Antiquaries of Scotland.
- Campbell, E 2006 ‘Tessera, window glass and plaque’, in Laing, L & Longley, D (eds) *The Mote of Mark: A Dark Age Hillfort in South-West Scotland*. Oxford: Oxbow.
- Campbell, E 2007 ‘Continental and Mediterranean imports to Atlantic Britain and Ireland, AD 400–800’, *Council for British Archaeology Research Reports* 157.
- Campbell, E 2008 ‘Early medieval imported glass’, in McComish, J M & Petts, D (eds) *Archaeological Investigations at Fey Field, Whithorn*. Report Number AYW10, 87–99. York: York Archaeological Trust.
- Campbell, E 2009 ‘Anglo-Saxon/Gaelic interaction in Scotland’, in Graham-Campbell, J & Ryan, M (eds) *Anglo-Saxon Irish Relations Before the Vikings*, 253–63. Oxford: Oxford University Press.
- Campbell, E 2017 ‘Metalworking ceramics’, in Toolis, R & Bowles, C (eds) *The Lost Dark Age Kingdom of Rheged: The Discovery of a Royal Stronghold at Trusty’s Hill, Galloway*, 41–3. Oxford: Oxbow.
- Campbell, L 2012 ‘Beyond the confines of empire: a reassessment of the Roman coarse wares from Traprain Law’, *Journal of Roman Pottery Studies* 15: 1–25.
- Campbell, E & Batey, C 2016 *Scottish Archaeological Research Framework for Argyll: Early Medieval Argyll and Norse/Viking Argyll (AD 400 – AD 1100)*. Society of Antiquaries of Scotland. <https://scarf.scot/regional/rarfa/8-early-medieval-argyll-and-norse-viking-argyll-ad-400-ad-1100/>
- Campbell, E & Driscoll, S T 2020 *Royal Forteviot*. York: Council for British Archaeology.
- Campbell, E & Lane, A M 1993 ‘Excavations at Longbury Bank, Dyfed, and early medieval settlement in South Wales’, *Medieval Archaeology* 37: 15–77.
- Campbell, E & Maldonado, A 2016 *Russell Trust Excavations on Iona led by Charles Thomas, 1956–1963*, Data structure report. Edinburgh: Historic Environment Scotland.
- Campbell, E, Driscoll, S, Gondek, M & Maldonado, A 2019 ‘An early medieval and prehistoric nexus: the Strathearn Environs and Royal Forteviot project’, in Blackwell, A E (ed) *Scotland in Early Medieval Europe*, 85–102. Leiden: Sidestone Press.
- Campbell, E, Seaman, A, Lane, A & Noble, G 2023 ‘A new chronology for the Welsh hillfort of Dinas Powys’, *Antiquity* 97(396): 1548–63.
- Cappers, R, Bekker, R & Jans, J 2006 *Digital Seed Atlas of the Netherlands*. Groningen: Barkhuis Publishing.
- Carter, S 1994 ‘The radiocarbon dates’, in Ballin Smith, B (ed) *Four Millennia of Orkney Prehistory: Excavations 1978–1982*, 264–6. Edinburgh: Society of Antiquaries of Scotland.
- Carter, S & Russell-White, C J 1993 ‘The investigation of two cropmark sites near Inverness’, *Proc Soc Antiq Scot* 123: 235–7, 240–2.
- Carver, M 1999 *Surviving in Symbols: A Visit to the Pictish Nation*. Edinburgh: Birlinn.
- Carver, M 2009 *Archaeological Investigation*. London: Routledge.
- Carver, M 2011 ‘Lost, found, repossessed or argued away – the case of the Picts’, *Antiquity* 85: 1479–83.
- Carver, M 2015 ‘Commerce and cult: confronted ideologies in 6th–9th century Europe’. *Medieval Archaeology* 59: 1–23.
- Carver, M 2019 *Formative Britain: An Archaeology of Britain, Fifth to Eleventh Century AD*. London: Routledge.

BIBLIOGRAPHY

- Carver, M, Barrett, J, Downes, J & Hooper, J 2012 'Pictish byre houses at Pitcarmick and their landscape: investigations 1993–5', *Proc Soc Antiq Scot* 142: 145–200.
- Carver, M, Garner-Lahire, J & Spall, C 2016 *Portmahomack on Tarbat Ness: Changing Ideologies in North-east Scotland, Sixth to Sixteenth Century AD*. Edinburgh: Society of Antiquaries of Scotland.
- Cary, E (ed and trans) 1927 *Dio's Roman History*, vol 9. London: William Heinemann.
- Chabal, L & Laubenheimer, F 1994 'L'atelier gallo-romain de Sallè les d'Aude: les potiers et le bois', in *Terre Cuite et Société, la Céramique, Document Technique, Économique et Culturel (XIVes Rencontres Internationales d'Archéologie et d'Histoire d'Antibes)*, 99–129. Juan les Pins: CNRS.
- Charles-Edwards, T M 1989 'Early medieval kingships in the British Isles', in Bassett, S (ed) *The Origins of Anglo-Saxon Kingdoms*, 28–39. Leicester: Leicester University Press.
- Charles-Edwards, T M 2000 *Early Christian Ireland*. Cambridge: Cambridge University Press.
- Cherry, J F 1978 'Generalisation and the archaeology of the state', in Green, D, Haselgrove, C & Spriggs, M (eds) *Social Organisation and Settlement*, 411–37. Oxford: British Archaeological Reports.
- Childe, V G 1935 'Excavation of the vitrified fort of Finavon, Angus', *Proc Soc Antiq Scot* 69: 49–80.
- Childe, V G 1936 '(1) Carminnow fort; (2) supplementary excavations at the vitrified fort of Finavon, Angus; and (3) some Bronze Age vessels from Angus', *Proc Soc Antiq Scot* 70: 341–56.
- Childe, V G & Thorneycroft, W 1938a 'The vitrified fort at Rahoy, Morvern, Argyll', *Proc Soc Antiq Scot* 72: 23–43.
- Childe, V G & Thorneycroft, W 1938b 'The experimental production of the phenomena distinctive of vitrified forts', *Proc Soc Antiq Scot* 72: 44–55.
- Christie, H 2014 'Got swag? Investigating beads and bead trade in Scotland during the first millennium AD', unpublished MLitt dissertation, University of Glasgow.
- Christison, D 1900 'The forts, "camps", and other field-works of Perth, Forfar, and Kincardine', *Proc Soc Antiq Scot* 34: 43–120.
- Christison, D & Anderson, J 1899 'On the recently excavated fort on Castle Law, Abernethy', *Proc Soc Antiq Scot* 33: 13–33.
- Clancy, T O 2008 'Deer and the early church in North-Eastern Scotland', in Forsyth, K (ed) *Studies on the Book of Deer*, 363–97. Dublin: Four Courts Press.
- Clancy, T O 2010 'Gaelic in medieval Scotland: advent and expansion', *Proceedings of the British Academy* 167: 349–92.
- Clancy, T O 2016 'Logie: an ecclesiastical place-name element in eastern Scotland', *Journal of Scottish Name Studies* 10: 25–88.
- Clancy, T O, Butter, R, Márkus, G & Barr, M nd *Saints in Scottish Place-Names*. <https://saintsplaces.gla.ac.uk/>. Accessed 10 October 2023.
- Clark, J 2004 *The Medieval Horse and its Equipment*. London: Museum of London.
- Clarke, D V 1971 'Small finds in the Atlantic province: problems of approach', *Scottish Archaeological Forum* 3: 22–55.
- Clarke, D V 2007 'Reading the multiple lives of Pictish symbol stones', *Medieval Archaeology* 51: 19–39.
- Cleary, R 2006 'Excavations of an early medieval period enclosure at Ballynagallagh, Lough Gur, Co. Limerick', *Proceedings of the Royal Irish Academy: Archaeology, Culture, History* 106C: 1–66.
- Close-Brooks, J 1981 'Excavations in the Dairy Park, Dunrobin, Sutherland, 1977', *Proc Soc Antiq Scot* 110: 328–45.
- Close-Brooks, J 1983 'Dr Bersu's excavations at Traprain Law, 1947', in O'Connor, A & Clarke, D V (eds) *From the Stone Age to the 'Forty-Five': Studies Presented to R. B. K. Stevenson, Former Keeper, National Museum of Antiquities of Scotland*, 206–23. Edinburgh: John Donald.
- Close-Brooks, J 1986 'Excavations at Clatchard Craig, Fife', *Proc Soc Antiq Scot* 116: 117–84.
- Close-Brooks, J 1987 'The clay moulds', in Hedges, J W (ed) *Bu, Gurness and the Broch of Orkney: Vol 2, Gurness*, 303–5. Oxford: BAR Publishing.
- Coleman, R & Hunter, F 2002 'The excavation of a souterrain at Shanzie Farm, Alyth, Perthshire', *Tayside and Fife Archaeological Journal* 8: 77–101.
- Coles, J 1969 'Scottish Early Bronze Age metalwork', *Proc Soc Antiq Scot* 101: 1–110.
- Colgrave, B & Mynors, R A B (eds and trans) 1969 *Bede's Ecclesiastical History of the English People*. Oxford: The Clarendon Press.
- Collins, R 2012 *Hadrian's Wall and the End of Empire: The Roman Frontier in the 4th and 5th Centuries*. Abingdon: Routledge.
- Collins M J & Galley P 1998 'Towards an optimal method of archaeological collagen extraction: the influence of pH and grinding', *Ancient Biomolecules* 2: 209–22.
- Comber, M 2004 *Native Evidence of Non-ferrous Metalworking in Early Historic Ireland*. Oxford: BAR Publishing.
- Constant, A, Segura, J & Valenciano, M 2015 'Hilltop settlement dynamics in Provence between the 5th–9th centuries: results and research prospects', in Vicelja-Matijašić, M (ed) *Swords, Crowns, Censers and Books Francia Media – Cradles of European Culture*, 373–402. Rijeka: Centre for Iconographic Studies.
- Cook, A M & Dacre, M W 1985 *Excavations at Portway, Andover, 1974–5*. Oxford: Oxford University School of Archaeology.
- Cook, M 2005 'Craw Stane, Rhynie, Aberdeenshire: Historic Scotland Human Remains Call Off Contract Excavation', unpublished data structure report, AOC Archaeology (HS/C/53031/3186).
- Cook, M 2010 'New light on oblong forts: excavations at Dunnideer, Aberdeenshire', *Proc Soc Antiq Scot* 140: 79–92.
- Cook, M 2011a 'Maiden Castle, Inch, Aberdeenshire: choice and architecture in Pictland', *Tayside and Fife Archaeological Journal* 17: 25–35.
- Cook, M 2011b 'New evidence for the activities of Pictish potentates in Aberdeenshire: the hillforts of Strathdon', *Proc Soc Antiq Scot* 141: 207–29.
- Cook, M 2013 'Open or enclosed: settlement patterns and hillfort construction in Strathdon, Aberdeenshire, 1800 BC–AD 1000', *Proceedings of the Prehistoric Society* 79: 327–52.
- Cook, M 2016 *Prehistoric Settlement Patterns in the North-east of Scotland: Excavations at Grantown Road, Forres 2002–2013*. <https://doi.org/10.9750/issn>.
- Cook, M & Dunbar, L 2008 *Rituals, Roundhouses and Romans: Excavations at Kintore, Aberdeenshire 2000–2006, Volume 1, Forest Road*. Edinburgh: Scottish Trust for Archaeological Research.
- Cook, M, Cook, M & Humble, J 2010 'Hillforts of Strathdon: phase 4 – Cairnmore, Aberdeenshire (Auchindoir and Kearn parish), evaluation', *Discovery and Excavation in Scotland* 11: 14.
- Cook, M, Lawson, J A & McLaren, D 2017 'Excavations and interventions in and around Cramond Roman Fort and annexe, 1976 to 1990', *Scottish Archaeological Internet Reports* 74.
- Cool, H 1990 'Roman metal hairpins from southern Britain', *Archaeological Journal* 147: 148–82.

- Copeland, S R, Sponheimer, M, le Roux, P J, Grimes, V, Lee-Thorp, J A, de Ruiter, D J & Richards, M P 2008 'Strontium isotope ratios ($^{87}\text{Sr}/^{86}\text{Sr}$) of tooth enamel: comparison of solution and laser ablation multicollector inductively coupled plasma mass spectrometry methods', *Rapids Communications in Mass Spectrometry* 22: 3187–94.
- Cowie, T 2004 'Special places for special axes? Early Bronze Age metalwork from Scotland in its landscape setting', in Shepherd, I A G & Barclay, G (eds) *Scotland in Ancient Europe: The Neolithic and Early Bronze Age of Scotland in their European Context*, 247–65. Edinburgh: Society of Antiquaries of Scotland.
- Cowley, D 2011 'Remote sensing for archaeology and heritage management – site discovery, interpretation and registration', in Cowley, D (ed) *Remote Sensing for Archaeological Heritage Management*, 43–58. Brussels: Europae Archaeologia Consilium.
- Craw, J H 1930 'Excavations at Dunadd and at Other Sites on the Poltalloch Estates, Argyll', *Proc Soc Antiq Scot* 64: 111–46.
- Cree, J E 1924 'Account of the excavations on Traprain Law during summer 1923', *Proc Soc Antiq Scot* 58: 241–85.
- Crew, P & Rehren, T 2002 'High temperature workshop residues from Tara: iron, bronze and glass', in Roche, H (ed) *Excavations at Ráith na Rí, Tara, Co Meath, 1997*, 83–102. Dublin: Royal Irish Academy.
- Crocco, R, Huisman, H, Sablerolles, Y, Henerson, J, van Os, B & Nieuwhof, A 2021 'Hunting colours: origin and reuse of glass tesserae from the Wierum terp', *Archaeological and Anthropological Sciences* 13: 1–23.
- Crone, A & Campbell, E 2005 *A Crannog of the First Millennium AD, Excavations by Jack Scott at Loch Glashan, Argyll, 1960*. Edinburgh: Society of Antiquaries of Scotland.
- Cross, P J 2011 'Horse Burial in First Millennium AD Britain: Issues of Interpretation', *European Journal of Archaeology* 14(1–2): 190–209. <https://doi.org/10.1179/146195711798369409>
- Crowther, A, Haslam, M, Oakden, N, Walde, D & Mercader, J 2014 'Documenting contamination in ancient starch laboratories', *Journal of Archaeological Science* 49: 90–104.
- Cruickshanks, G 2017 'Iron in Iron Age Scotland: a Long-term Cast Study of Production and Use c. 800 BC to AD 800', unpublished PhD thesis, University of Edinburgh.
- Cruickshanks, G 2018 'Ironworking debris from excavations on Iona', unpublished specialist report, National Museums Scotland for University of Glasgow.
- Cruickshanks, G 2019 'Early medieval ironworking at Learnie Caves, Rosemarkie', unpublished specialist report, National Museums Scotland for Rosemarkie Caves Project.
- Cruickshanks, G 2020a 'Coarse stone', in Armit, I & Büster, L (eds) *Darkness Visible: The Sculptor's Cave, Covesea, from the Bronze Age to the Picts*, 112–15. Edinburgh: Society of Antiquaries of Scotland.
- Cruickshanks, G 2020b 'Hand-made pottery', in Noble, G, Evans, N, Hamilton, D, MacIver, C, Masson-Maclean, E & O'Driscoll, J 'Dunnicaer, Aberdeenshire, Scotland: a Roman Iron Age promontory fort beyond the frontier', *Archaeological Journal* 177: 256–338.
- Cruickshanks, G in prep 'Metalworking evidence at St. Moluag's Chapel, Lismore'.
- Cruickshanks, G & Dungworth, D in prep 'Iron production at Birnie, Moray', in Hunter, F (ed) *Excavations at Birnie*. Edinburgh: National Museums Scotland.
- Cruickshanks, G & Hunter, F 2017 'The ironwork', in Toolis, R & Bowles, C (eds) *The Lost Dark Age Kingdom of Rheged: The Discovery of a Royal Stronghold at Trusty's Hill, Galloway*, 47–8. Oxford: Oxbow.
- Cruickshanks, G & Hunter, F 2023 'Metalworking evidence from Upper Largie, Argyll', unpublished specialist report, National Museums Scotland for Argyll Archaeology.
- Cruickshanks, G & Sheridan, A 2020 'Later prehistoric pottery', in Armit, I & Büster, L (eds) *Darkness Visible: The Sculptor's Cave, Covesea, from the Bronze Age to the Picts*, 87–96. Edinburgh: Society of Antiquaries of Scotland.
- Curle, A O 1923 *The Treasure of Traprain: A Scottish Hoard of Roman Silver Plate*. Glasgow: MacLehose, Jackson & Co.
- Curle, C L 1982 *Pictish and Norse finds from the Brough of Birsay 1934-74*. Edinburgh: Society of Antiquaries of Scotland.
- Curle, J 1911 *A Roman Frontier Post and Its People: The Fort of Newstead in the Parish of Melrose*. Glasgow: James MacLehose & Sons.
- Curle, A O & Cree, J E 1921 'Account of the excavation on Traprain Law during the summer of 1920', *Proc Soc Antiq Scot* 55: 153–206.
- Curtis, N G W & Hunter, F 2006 'An unusual pair of Roman bronze vessels from Stoneywood, Aberdeen, and other Roman finds from North-East Scotland', *Proc Soc Antiq Scot* 136: 199–214.
- Curtis-Summers, S, Pearson, J A & Lamb, A L 2020 'From Picts to parish: stable isotope evidence of dietary change at medieval Portmahomack, Scotland', *Journal of Archaeological Science: Reports* 31: 102303.
- Czére, O, Fawcett, J, Evans, J, Sayle, K L, Müldner, G, Hall, M, Will, B, Mitchell, J, Noble, G & Britton, K 2021 'Multi-isotope analysis of the human skeletal remains from Blair Atholl, Perth & Kinross, Scotland: insights into the diet and lifetime mobility of an early medieval individual', *Tayside and Fife Archaeological Journal* 27: 31–44.
- Czére, O, Lawson, J A, Müldner, G, Evans, J, Boyle, A & Britton, K 2022 'The bodies in the 'bog': a multi-isotope investigation of individual life-histories at an unusual 6th/7th AD century group burial from a Roman latrine at Cramond, Scotland', *Archaeological and Anthropological Sciences* 14(4): 67.
- Dark, K 1994 *Civitas to Kingdom: British Political Continuity 300-800 (Studies in the Early History of Britain)*. Leicester: Leicester University Press.
- Dark, K R 2000 *Britain and the End of the Roman Empire*. Stroud: Tempus.
- Darvill, T, O'Connor, B, Cheetham, P, Constant, V, Nunn, R & Welham, K 2005 'The Cronk yn How stone and the rock art of the Isle of Man', *Proceedings of the Prehistoric Society* 71: 283–331.
- Daux, V, Lécuyer, C, Héran, M-A, Amiot, R, Simon, L, Fourel, F, Martineau, F, Lynnerup, N, Reychler, H & Escarguel, G 2008 'Oxygen isotope fractionation between human phosphate and water revisited', *Journal of Human Evolution* 55: 1138–47.
- Davies, W 1982 *Wales in the Early Middle Ages*. Leicester: Leicester University Press.
- Davies, B, Richardson, B & Tomber, R 1993 *A Dated Corpus of Early Roman Pottery from the City of London*. London: Museum of London.
- Davis, S J M 1992 *A Rapid Method for Recording Information about Mammal Bones from Archaeological Sites*. Laboratory Report 19/92. HBMC Ancient Monuments.
- Davis, M and Freestone, I 2018 'Trading North: Glass-working beyond the edge of the Empire', in Rosenow, D, Phelps, M, Meek, A and Freestone, I (eds) *Things that Travelled: Mediterranean Glass in the First Millennium CE*, 107–33. London: UCL Press.
- Deforce, K 2017 'Wood use in a growing medieval city. The over-exploitation of woody resources in Ghent (Belgium) between the 10th and 12th century AD', *Quaternary International* 458: 123–33.
- Delhon, C, Binder, D, Verdin, P & Mazuy, A 2020 'Phytoliths as a seasonality indicator? The example of the Neolithic site of Pendimoun,

BIBLIOGRAPHY

- south-eastern France', *Vegetation History and Archaeobotany* 29: 229–40.
- Deniel, C & Pin, C 2001 'Single-stage method for the simultaneous isolation of lead and strontium from silicate samples for isotopic measurements', *Analytica Chimica Acta* 426(11): 95–103.
- DeNiro, M J & Epstein, S 1978 'Influence of diet on the distribution of carbon isotopes in animals', *Geochimica et Cosmochimica Acta* 42: 495–506.
- DeNiro, M J & Epstein, S 1981 'Influence of diet on the distribution of nitrogen isotopes in animals', *Geochimica et Cosmochimica Acta* 45: 341–51.
- Dettman, D L, Kohn, M J, Quade, J, Ryerson, F J, Ojha, T P & Hamin-dullah, S 2001 'Seasonal stable isotope evidence for a strong Asian monsoon throughout the past 10.7 m.y.', *Geology* 29(1): 31–4.
- Diack, F C 1944 *The Inscriptions of Pictland*. Aberdeen: Spalding Club.
- Dickson, C A & Dickson, J H 1984 'The botany of Crosskirk Broch', in Fairhurst, H (ed) *Excavations at Crosskirk Broch, Caithness 1966–1972*, 147–55. Edinburgh: Society of Antiquaries of Scotland.
- Dickson, C A & Dickson, J H 2016 'The plant remains', in Breeze, D J (ed) *Excavations of the Roman fort at Bearsden, Scotland*, 223–80. Edinburgh: Society of Antiquaries of Scotland.
- Dobat, A S 2006 'The king and his cult: the axe-hammer from Sutton Hoo and its implications for the concept of sacral leadership in early medieval Europe', *Antiquity* 80: 880–93.
- Dobbs, M E 1949 'Cé: the Pictish name of a district in eastern Scotland', *Scottish Gaelic Studies* 6: 137–8.
- Dobney, K, Jaques, D, and Johnstone, C 1999 *A Protocol for Recording Vertebrate Remains from archaeological sites*. Reports from the Environmental Archaeology Unit, 99/15. York.
- Dockrill, S J, Bond, J M, Turner, V E, Brown, L D, Bashford, D J, Cussans, J E & Nicholson, R A 2010 *Excavations at Old Scatness, Shetland. Volume 1: The Pictish Village and Viking Settlement*. Lerwick: Shetland Heritage Publications.
- Dockrill, S, Bond, J, Turner, V, Brown, L, Bashford, D, Cussans, J & Nicholson, R 2015 *Excavations at Old Scatness, Shetland Volume 2: The Broch and Iron Age Village*. Lerwick: Shetland Heritage Publications.
- Donaldson, A M 1982 'Charcoal', in Curle C L (ed) *Pictish and Norse Finds from the Brough of Birsay 1934–74*, 138. Edinburgh: Society of Antiquaries of Scotland.
- Dore, J & Wilkes, J 1999 'Excavations directed by J D Leach and J J Wilkes on the site of a Roman fortress at Carpow, Perthshire, 1964–79', *Proc Soc Antiq Scot* 129: 481–575.
- Douglas, F 1782 *A General Description of the East Coast of Scotland from Edinburgh to Cullen*. Paisley: Alexander Weir.
- Dransart, P 2003 'Saints, stones and shrines: the cults of Sts Moluag and Gerardine in Pictland', in Cartwright, J (ed) *Celtic Hagiography and Saints' Cults*, 232–48. Cardiff: University of Wales Press.
- Driscoll, S T 1988 'Power and authority in early historic Scotland: Pictish symbol stones and other documents', in Gledhill, J, Bender, B & Larsen, M (eds) *State and Society: The Emergence and Development of Social Hierarchy and Political Centralization*, 215–36. London: Taylor & Francis.
- Driscoll, S T 1991 'Archaeology of state formation in Scotland', in Hanson, W S & Slater, E A (eds) *Scottish Archaeology, New Perceptions*, 81–111. Aberdeen: Aberdeen University Press.
- Driscoll, S T 1998 'Political discourse and the growth of Christian ceremonialism in Pictland, the place of the St Andrews Sarcophagus', in Foster, S M (ed) 1998 *St Andrews Sarcophagus: A Pictish Masterpiece and its International Connections*, 168–78. Dublin: Four Courts Press.
- Driscoll, S T 2004 'The archaeological context of assembly in early medieval Scotland – Scone and its comparanda' in Pantos, A & Semple, S (eds) *Assembly Places and Practices in Medieval Europe*, 73–94. Dublin: Four Courts Press.
- Driscoll, S T 2011 'Pictish archaeology: persistent problems and structural solutions', in Driscoll, S T, Geddes, J & Hall, M A (eds) *Pictish Progress: New Studies on Northern Britain in the Early Middle Ages*, 245–80. Leiden: Brill.
- Driscoll, S T, Hall, M & Geddes, J (eds) 2011 *Pictish Progress. New Studies on Northern Britain in the Early Middle Ages*. Leiden: Brill.
- Dunbar, L 2012 'Greshop Farm cropmark (Site 13), Forres (River Findhorn and Pilmuir) FAS, topsoil strip, evaluation and excavation: data structure report', unpublished data structure report, AOC Archaeology.
- Dunbar, E, Cook, G T, Naysmith, P, Tripney, B G, Xu, S 2016 'AMS ¹⁴C dating at the Scottish Universities Environmental Research Centre (SUERC) Radiocarbon Dating Laboratory', *Radiocarbon* 58: 9–23.
- Duncan, A M 1975 *Scotland. The Making of the Kingdom*. Edinburgh: Oliver and Boyd.
- Dungworth, D 1997 'Roman copper alloys: analysis of artefacts from northern Britain', *Journal of Archaeological Science* 24: 901–10.
- Dungworth, D 2000 'A note on the analysis of crucibles and moulds', *Historical Metallurgy* 34(2): 83–6.
- Dungworth, D, Vaggi, M & Keys, L 2022 'The evidence for silver working', in Gerrard, J & Seddon, G (eds) *By the Medway Marsh: Excavations at Grange Farm, Gillingham, Kent 2003–2006*, 96–102. London: Pre-Construct Archaeology.
- Dunwell, A & Ralston, I 2008 *Archaeology and Early History of Angus*. Stroud: Tempus.
- Dunwell, A & Strachan, R 1997 'Tap o' Noth (Rhynie parish): enclosure; 'hut circles'', *Discovery Excavation Scotland 1997*: 11.
- Durham, E 2012 'Depicting the gods: metal figurines in Roman Britain', *Internet Archaeology* 31.
- Earl of Southesk 1893 *Origins of Pictish Symbolism with Notes on the Sun Boar and a New Reading of the Newton Inscriptions*. Edinburgh: David Douglas.
- Edwards, N 2023 *Life in Early Medieval Wales*. Oxford: Oxford University Press.
- Edwards, N & Lane, A 1988 *Early Medieval Settlements in Wales AD 400–1100*. Cardiff: Department of Archaeology.
- Eeles, F C & Clouston, R 1958 'The church and other bells of Aberdeenshire', *Proc Soc Antiq Scot* 91: 84–111.
- Eggers, H J & Stary, P F, 2001 *Funde der vorrömischen Eisenzeit, der römischen Kaiserzeit und der Völkerwanderungszeit in Pommern, Beiträge zur Ur- und Frühgeschichte in Mecklenburg-Vorpommern*. Archäologisches Landesmuseum und Landesamt für Bodendenkmalpflege Mecklenburg-Vorpommern, Lübstorf.
- Ellis, C 2019 'Lismore Glebe, excavation, in Paula Milburn', *Discovery and Excavation in Scotland* 19: 46–7.
- Elton, H 1996 *Frontiers of the Roman Empire*. London: B. T. Batsford.
- Engl, R 2008 'Coarse stone', in Cook, M & Dunbar, L (eds) *Rituals, Roundhouses and Romans: Excavations at Kintore, Aberdeenshire 2000–2006*, 210–25. Edinburgh: Scottish Trust for Archaeological Research.
- Esmonde Cleary, A S 1989 *The Ending of Roman Britain*. London: B. T. Batsford.
- Etchingam, C & Swift, C 2004 'English and Pictish terms for brooch in an eighth-century Irish law text', *Medieval Archaeology* 48: 31–49.

- Evans, D H & Loveluck, C 2009 *Life and economy at early medieval Flixborough*. Oxford: Oxbow Books.
- Evans, J A, Montgomery, J, Wildman, G & Boulton, N 2010 'Spatial variations in biosphere $^{87}\text{Sr}/^{86}\text{Sr}$ in Britain', *Journal of the Geological Society* 167: 1–4.
- Evans, J A, Mee, K, Chenery, C A & Marchant, A P 2022 'Biosphere Isotope Domains GB (V2): Interactive Website'. British Geological Survey. <https://doi.org/10.5285/2ce7fc22-1b6e-4979-968f-42058c0120fb>.
- Evans, N 2010 *The Present and the Past in Medieval Irish Chronicles*. Woodbridge: Boydell.
- Evans, N 2011 'Ideology, literacy and matriliney: approaches to medieval texts on the Pictish past', in Driscoll, S T, Hall, M & Geddes, J (eds) *Pictish Progress. New Studies on Northern Britain in the Early Middle Ages*, 45–65. Leiden: Brill.
- Evans, N 2013 'Circin and Mag Gerginn: Pictish territories in Irish and Scottish sources', *Cambrian Medieval Celtic Studies* 66: 1–36.
- Evans, N 2014 *A Historical Introduction to the Northern Picts*. Aberdeen: University of Aberdeen.
- Evans, N 2022 'Picti: from Roman name to internal identity', *Journal of Medieval History* 48(3): 291–322.
- Evison V I 2000 'Glass vessels in England, AD 400–1100', in Price, J (ed) *Glass in Britain and Ireland AD 350–1100*, 47–104. London: British Museum.
- Evison, V I 2008 *Catalogue of Anglo-Saxon Glass in the British Museum*. London: British Museum.
- Fairweather, A D & Ralston, I B M 1993 'Neolithic plant macrofossils from the Balbridie timber hall, Grampian Region, Scotland: a preliminary note', *Antiquity* 67(255): 313–23.
- Faulkner, N 2000 *The Decline and Fall of Roman Britain*. London: Stroud.
- Faulkner, N 2004 'The case for the Dark Ages', in Collins, R & Gerrard, J (eds) *Debating Late Antiquity in Britain AD 300–700*, 5–12. Oxford: British Archaeological Reports.
- Feachem, R W 1958 'The fortifications on Traprain Law', *Proc Soc Antiq Scot* 89: 284–9.
- Feachem, R W 1966 'The hill-forts of northern Britain' in Rivet, A (ed) *The Iron Age in Northern Britain*, 59–88. Edinburgh: Edinburgh University Press.
- Fenton, A & Walker, B 1981 *The Rural Architecture of Scotland*. Edinburgh: John Donald.
- Fern, C 2019 'Characterising the finds', in Fern, C, Dickinson, T & Webster, L (eds) *The Staffordshire Hoard: An Anglo-Saxon Treasure*, 29–122. London: Society of Antiquaries of London.
- Fernández-Götz, M 2018 'Urbanization in Iron Age Europe: trajectories, patterns, and social dynamics', *Journal of Archaeological Research* 26: 117–62.
- Fiske, H & Rowlandson, I 2024 'A late Roman 'Nene Valley colour-coated ware' kiln beside the River Witham in Lincoln in 2009', *Journal of Roman Pottery Studies* 20: 93–129.
- FitzPatrick, E 2004 *Royal Inauguration in Gaelic Ireland c. 1100–1600. A Cultural Landscape Study*. Woodbridge: Boydell Press.
- Flanagan, D & Flanagan, L 1994 *Irish Place Names*. Dublin: Gill & Macmillan Ltd.
- Fleming, R. 2011 *Britain After Rome: The Fall and Rise, 400 to 1070*. London: Penguin.
- Fleming, R 2021 *The Material Fall of Roman Britain, 300–525 CE*. Philadelphia: University of Pennsylvania Press.
- Fleming, R 2022 *The Material Fall of Roman Britain*. Philadelphia: University of Pennsylvania Press.
- Forster, A K 2015 'Steatite assemblage', in Dockrill, S, Bond, J, Turner, V, Brown, L, Bashford, D, Cussans, J & Nicholson, R (eds) *Excavations at Old Scatness, Shetland Volume 2: The Broch and Iron Age Village*, 365–74. Lerwick: Shetland Heritage Publications.
- Forsyth, K 1997 'Some thoughts on Pictish symbols as a formal writing system', in Henry, D (ed) *The Worm, the Germ and the Thorn*, 85–98. Balgavies: The Pinkfoot Press.
- Forsyth, K (ed) 2008 *Studies on the Book of Deer*. Dublin: Four Courts Press.
- Forsyth, K, Broun, D & Clancy, T 2008 'The property records: text and translation', in Forsyth, K (ed) *Studies on the Book of Deer*, 131–44. Dublin: Four Courts.
- Foster, J 1977 *Bronze Boar Figurines in Iron Age and Roman Britain*. London: BAR Publishing.
- Foster, S M 1989 'Aspects of the Late Atlantic Iron Age', unpublished PhD thesis, University of Glasgow.
- Foster, S M 1996 *Picts, Gaels and Scots*. London: Batsford.
- Foster, S M 2014 *Picts, Gaels and Scots*, revised ed. Edinburgh: Birlinn.
- Fowler, E 1960 'The origins and development of the penannular brooch in Europe', *Proc Soc Antiq Scot* 26: 149–77.
- Fowler, E 1963 'Celtic metalwork of the fifth and sixth centuries AD: a reappraisal', *Archaeological Journal* 120: 98–160.
- Fraser, I (ed) 2008 *The Pictish Symbol Stones of Scotland*. Edinburgh: RCAHMS.
- Fraser, I & Halliday, S 2007 'The early medieval landscape', in RCAHMS (ed) *In the Shadow of Bennachie: A Field Archaeology of Donside, Aberdeenshire*, 115–35. Edinburgh: RCAHMS and Society of Antiquaries of Scotland.
- Fraser, I & Halliday, S 2011 'The Early Medieval Landscape of Donside, Aberdeenshire', in Driscoll, S, Hall, M & Geddes, J (eds) *Pictish Progress. New Studies on Northern Britain in the Early Middle Ages*, 307–34. Leiden: Brill.
- Fraser, J E 2005 *The Roman Conquest of Scotland: The Battle of Mons Graupius AD 84*. Stroud: The History Press.
- Fraser, J E 2009 *From Caledonia to Pictland: Scotland to 795*. Edinburgh: Edinburgh University Press.
- Freestone, I C 2015a 'The recycling and reuse of Roman glass: analytical approaches', *Journal of Glass Studies* 57: 29–40.
- Freestone, I C 2015b 'Glass production in the first millennium CE: a compositional perspective', in Klimscha, F and Karlsen, H J and Hansen, S and Renn, J, (eds) *Glas und Glasproduktion in Ur- und Frühgeschichtlicher Zeit*, 243–62. Edition TOPOI: Berlin, Germany.
- Freestone, I C & Stapleton, C 2015 'Composition technology and production of coloured glasses from Roman mosaic vessels', in Bayley J, Freestone, I C & Jackson, C (eds) *Glass of the Roman world*, 61–76. Oxford: Oxbow.
- Fulford, M G & Peacock, D P S 1984 *Excavations at Carthage: The British Mission. The Avenue du Président Habib Bourguiba, Salamambo: The Pottery and Other Ceramic Objects from the Site, vol I.2*. Sheffield: University of Sheffield.
- Fünfschilling, S 2015 *Die römischen Gläser aus Augst und Kaiseraugst. Kommentierter Formenkatalog und ausgewählte Neufunde 1981–2010 aus Augusta Raurica*. Augst: Augusta Raurica.
- Gaelic in the North East 2023 <https://www.abdn.ac.uk/llmvc/disciplines/gaelic/gaelic/gaelic-in-the-north-east/>. Accessed 30 October 2023.
- Gale, R & Cutler, D 2000 *Plants in Archaeology*. Kew: Westbury and Royal Botanic Gardens.

BIBLIOGRAPHY

- Game and Wildlife Conservation Trust 2020 'Mountain hare – *Lepus timidus*'. <https://www.gwct.org.uk/wildlife/research/mammals/mountain-hare?> Accessed 1 May 2020.
- Gannon, A, Halliday, S, Sherriff, J & Welfare, A 2007 'The Neolithic and Bronze Age landscape', in RCAHMS (ed) *In the Shadow of Bennachie: A Field Archaeology of Donside, Aberdeenshire*, 45–78. Edinburgh: RCAHMS and Society of Antiquaries of Scotland.
- Gardiner, M 1993 'The excavation of a Late Anglo-Saxon settlement at Market Field, Steyning, 1988–89', *Sussex Archaeological Collections* 131: 21–67.
- Gardiner, M 2012 'An early medieval tradition of building in Britain', *Arqueología de la Arquitectura* 9: 231–46.
- Gates, T & O'Brien, C 1988 'Cropmarks at Milfield and New Bewick and the recognition of 'grubenhauer' in Northumberland', *Archaeologia Aeliana 5th series*, 16: 1–12.
- Gavin, F 2013 'Insular military-style silver pins in late Iron Age Ireland', in Hunter, F & Painter, K (eds) *Late Roman Silver: The Traprain Treasure in Context*, 427–41. Edinburgh: Society of Antiquaries of Scotland.
- Geddes, J, Murray, H K & Murray, J C 2015 'Tullich, Aberdeenshire: a reappraisal of an early ecclesiastical site and its carved stones in the light of recent excavations', *Proc Soc Antiq Scot* 145: 229–81.
- Gentles, D 1993 'Vitrified forts', *Current Archaeology* 133: 18–20.
- Geog. Coll. = Mitchell, A & Toshach, J [for vol III] (eds) 1906–8 *Geographical Collections relating to Scotland made by Walter Macfarlane*, vols I–II, 3 vols. Edinburgh: Scottish History Society.
- Gerrard, J 2013 *The Ruin of Roman Britain*. Cambridge: Cambridge University Press
- Gerrard, J 2016 *The Ruin of Roman Britain: An Archaeological Perspective*. Cambridge: Cambridge University Press.
- Gibson, W (ed) 1922 *Cannel Coals, Lignite and Mineral Oil in Scotland*. London: HMSO.
- Giles, M 2007 'Making metal and forging relations: ironworking in the British Iron Age', *Oxford Journal of Archaeology* 26: 395–413.
- Gillespie, R 2007 'Prehistory and history on the N5 Charlestown Bypass in counties Mayo and Roscommon', in O'Sullivan, J & Stanley, M (eds) *New Routes to the Past: Proceedings of a Public Seminar on Archaeological Discoveries on National Road Schemes, August 2006*, 11–24. Bray: Wordwell.
- Gilmour, B 2015 'Snake swords and barbed spearheads: the visibility of pattern welding', *Historical Metallurgy* 48: 34–40.
- Gilmour, B 2017 'The metallurgy, development and purpose of pattern welding', *Historical Metallurgy* 51(2): 57–70.
- Gleeson, P 2012 'Constructing kingship in early medieval Ireland: power, place and ideology', *Medieval Archaeology* 56: 1–33.
- Gleeson, P 2014 'Assembly and elite culture in late Antique Europe: a case study of Óenach Clochair', *Journal of Irish Archaeology* 23: 171–87.
- Gleeson, P 2015 'Kingdoms, communities, and Óenaig: Irish assembly practices in their Northwest European context', *Journal of the North Atlantic Special Vol 8*: 33–51.
- Gleeson, P 2017 'Gathering the nations: towards an archaeology of assembly for early medieval Ireland', in Beglane, F (ed) *Gatherings: Past and Present*, 72–85. Oxford: Archaeopress.
- Gleeson, P 2021 'Residence, ritual and rulership: a state-of-the-art for royal places in early medieval Ireland', *Norwegian Archaeological Review* 54(1–2): 29–55.
- Gleeson, P & Carty, N 2013 'Kingship, violence and Loch Dá Gabhor: royal landscapes and the production of authority in early medieval Brega', *Ríocht na Midhe* 24: 29–72.
- Gleeson, P & Ó Carragáin, T 2016 'Making Christian landscapes in Atlantic Europe: conversion and consolidation in the Early Middle Ages', in Ó Carragáin, T & Turner, S (eds) *Christianisation in Leinster's Royal Heartland: An Interdisciplinary Case Study*, 75–108. Cork: Cork University Press.
- Goldberg, E J 2020 *In the Manner of the Franks: Hunting, Kingship, and Masculinity in Early Medieval Europe*. Philadelphia: University of Pennsylvania.
- Goldberg, M 2015 'Out of a Roman world', in Farley, J & Hunter, F (eds) *Celts: Art and Identity*, 154–71. Edinburgh: National Museums Scotland.
- Goldberg, M & Hunter, F 2019 'Technologies of the self: painted pebbles, ornaments and the burial', in Lelong, O (ed) *Excavations at Milla Skerra, Sandwick, Unst*, 112–9. Oxford: Oxbow.
- Goldsworthy, A 2016 *Pax Romana. War, Peace and Conquest in the Roman World*. London: Weidenfeld and Nicolson.
- Gondek, M & Noble, G 2011 'Together as one: the landscape of the symbol stones at Rhynie, Aberdeenshire', in Driscoll, S T, Hall, M & Geddes, J (eds) *Pictish Progress. New Studies on Northern Britain in the Early Middle Ages*, 95–110. Leiden: Brill.
- Gondek, M & Noble, G 2012 'REAP 2012. Excavation of a palisaded and ditched enclosure and timber buildings in association with the Craw Stane, Rhynie, Aberdeenshire', unpublished data structure report. University of Aberdeen.
- Gondek, M & Noble, G 2015 'The land before symbol stones: a geophysical survey of Rhynie, Aberdeenshire and the excavation of a Middle Bronze Age structure near the Craw Stane, Barflat', *Proc Soc Antiq Scot* 145: 125–51.
- Goodall, I 2011 *Ironwork in Medieval Britain*. London: The Society for Medieval Archaeology.
- Gordon 32: c 1636–52 Robert Gordon's 'Formarten and part of Marr and Buquhan [sic] / observed R.G.', Adv.MS.70.2.10. <http://maps.nls.uk/joins/gordon32.html>. Accessed 12 December 2023.
- Goudie, J M 1924 'Donations to the museum', *Proc Soc Antiq Scot* 58: 17.
- Graham-Campbell, J 1976 'The Mote of Mark and Celtic interlace', *Antiquity* 50: 48–50.
- Graham-Campbell, J 1991 'Norrie's Law, Fife: on the nature and dating of the silver hoard', *Proc Soc Antiq Scot* 121: 241–59.
- Graham-Campbell, J & Hunter, F 2021 'Unusual Roman Iron Age burials on the Links of Pierowall, Westray, Orkney', *Proc Soc Antiq Scot* 150: 221–46.
- Grant, A 1982 'The use of tooth wear as a guide to the age of domestic ungulates', in Wilson, B, Grigson, C & Payne, S (eds) *Ageing and Sexing Animal Bones from Archaeological Sites*, 91–108. Oxford: British Archaeological Reports.
- Greig, J C 1970 'Excavations at Castle Point, Troup, Banffshire', *Aberdeen University Review* 43: 274–83.
- Greig, J C 1971 'Excavations at Cullykhan, Castle Point, Troup, Banffshire', *Scottish Archaeological Forum* 3: 15–21.
- Greig, J C 1972 'Cullykhan', *Current Archaeology* 3(8): 227–31.
- Greig, M 1994 'Sites identified while checking aerial photographs and maps held by GRC, or as the result of an aerial reconnaissance programme', *Discovery and Excavation in Scotland* 1994: 26.
- Greig, M 1995 'Sites identified by aerial reconnaissance undertaken by Grampian Region Archaeological Service', *Discovery and Excavation in Scotland* 1995: 32–3.
- Grigg, J 2015 *The Philosopher King and the Pictish Nation*. Dublin: Four Courts Press.

- Grigg, J 2018 *The Picts Re-Imagined*. Croydon: Arch Humanities.
- Grimm, E C 1987 'Coniss: a Fortran 77 program for stratigraphically constrained cluster analysis by the method of incremental sum of squares', *Computers and Geosciences* 13: 13–35.
- Grimm, E C 1991–2011 Tilia, Tilia·Graph and TGView. Springfield: Illinois State Museum.
- Groeger, J A 1997 *Memory and Remembering: Everyday Memory in Context*. Harlow: Addison Wesley Longman.
- Gross, J 2017 'Phosphate analysis of soil samples from the Pictish settlement at Rhynie, Aberdeenshire', unpublished MA dissertation, University of Aberdeen.
- Guido, M 1978 *The Glass Beads of the Prehistoric and Roman Periods in Britain and Ireland*. London: The Society of Antiquaries of London.
- Guido, M 1999 *The Glass Beads of Anglo-Saxon England c. AD 400-700*. London: The Society of Antiquaries of London.
- Haaland, R 2004 'Technology, transformation and symbolism: ethnographic perspectives on European iron working', *Norwegian Archaeological Review* 37: 1–19.
- Haaster, H 1984 'Een paleoecologisch onderzoek aan een vroeg-subbo-reale veensectie uit de omgeving van Vinkeveen', unpublished PhD thesis, aan de Vrije Universiteit (The Vrije University).
- Hagberg, U E 1967 *The Archaeology of Skedemosse I: The Excavations and Finds of an Öland Fen, Sweden*. Almqvist & Wiksell, Stockholm.
- Haldane, A R B 1968. *The Drove Roads of Scotland*. Edinburgh: Edinburgh University Press.
- Haldenby, D & Richards, J D 2010 'Charting the effect of plough damage using metal-detected assemblages', *Antiquity* 84(326): 1151–62.
- Halkon, P 2013 'Iron, myth and magic: perceptions of smiths and metalworkers through cultural evidence from Britain and beyond', in Humphris, J & Rehren, T (eds) *The World of Iron*, 188–200. London: Archetype.
- Hall, A & Photos-Jones, E 1998 'The bloomery mounds of the Scottish Highlands. Part 2: A review of iron mineralisation', *Historical Metallurgy Journal* 32: 54–66.
- Hall, M 2016 'The Waulkmill gaming counters: discovery and gaming context', in Bradley, R & Nimura, C (eds) *The Use and Reuse of Stone Circles: Fieldwork at Five Scottish Monuments and its Implications*, 49–52. Oxford: Oxbow.
- Hall, M & Forsyth, K 2011 'Roman rules? The introduction of board games to Britain and Ireland', *Antiquity* 85: 1325–38.
- Hall, M, Evans, N, Hamilton, D, Mitchell, J, O'Driscoll, J & Noble, G 2020 'Warrior ideologies in first-millennium AD Europe: new light on monumental warrior stelae from Scotland', *Antiquity* 94(373): 127–44.
- Halliday, S 1985 'Unenclosed upland settlement in the east and south-east of Scotland', in Spratt, D & Burgess, C (eds) *Upland Settlement in Britain: The Second Millennium B.C. and After*, 231–51. Oxford: British Archaeological Reports.
- Halliday, S 1991 'The White Catherthun', in Pounds, N (ed) *The St Andrews area' – Proceedings of the 137th Summer Meeting of the Royal Archaeological Institute 1991*, 19–22. London: Royal Archaeological Institute.
- Halliday, S & Ralston, I 2009 'How many hillforts are there in Scotland?', in Cooney, G, Becker, K, Coles, J, Ryan, M & Sievers, S (eds) *Relics of Old Decency: Archaeological Studies in Later Prehistory*, 455–67. Dublin: Wordwell.
- Halliday, S & Ralston, I 2013 'Major forts and 'minor oppida' in Scotland: a reconsideration', in Krausz, S, Colin, A, Gruel, K, Ralston, I & Dechezleprêtre, T (eds) *L'âge du Fer en Europe, Mélanges offerts à Olivier Buchsenschutz*, 219–34. Bordeaux: Ausonius Editions.
- Halsall, G 2013 *Worlds of Arthur: Facts and Fictions of the Dark Ages*. Oxford: Oxford University Press.
- Halstead, P 1985 'A study of mandibular teeth from Maxey', in Pryor, F, French, C, Crowther, D, Gurney, D, Simpson, G & Taylor, M (eds) *The Fenland Project, No 1: Archaeology and Environment in the Lower Welland Valley*, vol 1, 219–24. Cambridge: The Cambridgeshire Archaeological Committee.
- Hamerow, H 1993 'Excavations at Mucking: Volume 2: The Anglo-Saxon Settlement', *English Heritage Archaeological Report* 21.
- Hamerow, H 2006 "'Special deposits" in Anglo-Saxon settlements', *Medieval Archaeology* 50: 1–30.
- Hamerow, H 2012 *Rural Settlements and Society in Anglo-Saxon England*. Oxford: Oxford University Press.
- Hänsel, B 2005 'Wege zur Stadt im vorgeschichtlichen Mitteleuropa', in Falk, H (ed) *Wege zur Stadt. Entwicklung und Formen Urbanen Lebens in der Alten Welt. Vergleichende Studien zu Antike und Orient* 2, 186–95. Bremen: Hempen Verlag.
- Hanson, W 1987 *Agricola and the Conquest of the North*. London: Batsford Ltd.
- Hanson, W S & Maxwell, G S 1986 *Rome's North-West Frontier: The Antonine Wall*, 2nd ed. Edinburgh: Edinburgh University Press.
- Harding, D 2004 *The Iron Age in Northern Britain: Celts and Romans, Natives and Invaders*. London: Routledge.
- Harding, D W 2012 *Iron Age Hillforts in Britain and Beyond*. Oxford: Oxford University Press.
- Härke, H 1992 'Changing symbols in a changing society: the Anglo-Saxon weapon burial rite in the seventh century', in Carver, M (ed) *The Age of Sutton Hoo*, 149–66. Suffolk: Boydell Press.
- Hart, T C 2011 'Evaluating the usefulness of phytoliths and starch grains found on survey artifacts', *Journal of Archaeological Science* 38: 3244–53.
- Hastorf, C A 2017 *The Social Archaeology of Food. Thinking about Eating from Prehistory to the Present*. Cambridge: Cambridge University Press.
- Hather, J G 2000 *The Identification of the Northern European Woods: A Guide for Archaeologists and Conservators*. London: Archetype Press.
- Hatherley, C & Murray, R 2021 *Culduthel: An Iron Age Craftworking Centre in North-East Scotland*. Edinburgh: Society of Antiquaries of Scotland.
- Hayden, B 2014 *The Power of Feasts from Prehistory to the Present*. Cambridge: Cambridge University Press.
- Heald, A 2001 'Knobbed spearbutts of the British and Irish Iron Age, new examples and new thoughts', *Antiquity* 290: 689–96.
- Heald, A 2005 'Non-ferrous Metalworking in Iron Age Scotland, c. 700BC to AD800', unpublished PhD thesis, University of Edinburgh.
- Heather, P 2009 *Empires and Barbarians: Migration, Development and the Birth of Europe*. London: Macmillan.
- Heck, M, Rehren, T, and Hoffmann, P 2003 'The production of lead-tin yellow at Merovingian Schleithem (Switzerland)', *Archaeometry* 45: 22–44.
- Heck, M and Hoffmann, P 2002 'Analysis of early medieval glass beads – the raw material to produce green, orange and brown colours', *Mikrochimica Acta* 139: 71–6.
- Hedeager, L 1992 *Iron-Age Societies. From Tribe to State in Northern Europe, 500 BC to AD 700*. Oxford: Blackwell.
- Hedeager, L 2011 *Iron Age Myth and Materiality: An Archaeology of Scandinavia AD 400–1000*. London: Routledge.

BIBLIOGRAPHY

- Hedges, J W 1987 *Bu, Gurness and the Broch of Orkney: Vol 2, Gurness*. Oxford: BAR Publishing.
- Hencken, H 1942 'Ballinderry crannog no. 2', *Proceedings of the Royal Irish Academy* 47C: 1–76.
- Hencken, H 1950 'Lagore crannog: an Irish royal residence of the 7th to 9th centuries AD', *Proceedings of the Royal Irish Academy* 53C: 1–278.
- Henderson, G 1972 *Early Medieval*. London: Pelican.
- Henderson, G & Henderson, I 2004 *The Art of the Picts: Sculpture and Metalwork in Early Medieval Scotland*. London: Thames and Hudson.
- Henderson, I 1958 'The origin centre of the Pictish symbol stones', *Proc Soc Antiq Scot* 91: 44–60.
- Henderson, I 1967 *The Picts*. London: Thames and Hudson.
- Henderson, J 1992 'Glass (appendix 5)', in Rideout, J, Owen, O & Halpin, E (eds) *Hillforts of Southern Scotland*, 42–4. Edinburgh: AOC (Scotland) Ltd and Historic Scotland.
- Henderson, J A 1907 *Aberdeenshire Epitaphs and Inscriptions: With Historical, Biographical, Genealogical, and Antiquarian Notes*. Aberdeen: Aberdeen Daily Journal Press.
- Henderson, J, Sode, T & Sablerolles, Y 2019 'Early medieval tesserae from Scandinavia and the Netherlands: a case for recycling', in Van Wersch, L, Verslype, L, Strivay, D & Theuws, F (eds) *Early Medieval Tesserae in Northwestern Europe*, 68–95. Bonn: Habelt-Verlag.
- Henry, A G, Hudson, H F & Piperno, D R 2009 'Changes in starch grain morphologies from cooking', *Journal of Archaeological Science* 36: 915–22.
- Heslop, D H 2008 *Patterns of Quern Production, Acquisition and Deposition. A Corpus of Beehive Querns from Northern Yorkshire and Southern Durham*. Leeds: Yorkshire Archaeological Society.
- Hibbert, S 1857 'The vitrified site of the Tap o' Noth', *Archaeologica Scotica*: 295–7.
- Higham, N J 2010 'The landscape archaeology of Anglo-Saxon England: an introduction', in Higham, N J & Ryan, M J (eds) *The Landscape Archaeology of Anglo-Saxon England*, 1–22. Manchester: Boydell & Brewer.
- Hill, P 1997 *Whithorn and St. Ninian: the Excavation of a Monastic Town 1984–91*. Stroud: Sutton.
- Hines, J & Bayliss, A (eds) 2013 *Anglo-Saxon Graves and Grave Goods of the 6th and 7th Centuries AD: A Chronological Framework*. Oxon: Routledge and the Society of Medieval Archaeology.
- Hingley, R 1997 'Iron, ironworking and regeneration: a study of the symbolic meaning of metalworking in Iron Age Britain', in Gwilt, A & Haselgrove, C (eds) *Reconstructing Iron Age Societies: New Approaches to the British Iron Age*, 9–18. Oxford: Oxbow.
- Hingley, R, Moore, H, Triscott, J & Wilson, G 1997 'The excavation of two later Iron Age homesteads at Aldclune, Blair Atholl, Perth and Kinross', *Proc Soc Antiq Scot* 127: 407–66.
- Hirst, S M & Biek, L 1981 'Investigation of a glass-bead assemblage from an Anglo-Saxon cemetery near York', *Revue d'Archeometrie*, Supplement: 139–46.
- Hodder, I & Orton, C 1976 *Spatial Analysis in Archaeology*. Cambridge: Cambridge University Press.
- Holmes, N M 2006 'Two denarius hoards from Birnie, Moray', *The British Numismatic Journal* 76: 1–44.
- Hoiland Nielsen, K 2013 'Typology', in Hines, J & Bayliss, A (eds) *Anglo-Saxon Graves and Grave Goods of the 6th and 7th Centuries AD: A Chronological Framework*, The Society for Medieval Archaeology Monograph 33, 133–229. London: The Society for Medieval Archaeology.
- Hood, A B E 1978 *St. Patrick: his Writings, and Muirchú's Life*. London and Chichester: Phillimore.
- Hoogewerff, J, Kemp, H F, Leng, M J & Meier-Augenstein, W 2019 'Spatial variability of 2H and 18O composition of meteoric freshwater lakes in Scotland', *Isotopes in Environmental and Health Studies* 55(3): 237–53.
- Hope-Taylor, B 1977 *Yeavinger: An Anglo-British Centre of Early Northumbria*. Swindon: English Heritage.
- Hoppe, K A, Koch, P L & Furutani, T T 2003 'Assessing the preservation of biogenic strontium in fossil bones and tooth enamel', *International Journal of Osteoarchaeology* 13: 20–8.
- Howe, M D, Perrin, J R & McKreth, D F 1980 *Roman Pottery from the Nene Valley: a Guide*. Peterborough: Peterborough City Museum.
- Hunter, F 2020a 'Iron Age and Roman silver, copper alloy and lead objects', in Armit, I & Büster, L (eds) *Darkness Visible: The Sculptor's Cave, Covesea, from the Bronze Age to the Picts*, 130–48. Edinburgh: Society of Antiquaries of Scotland.
- Hunter, F 2020b 'The amber', in Armit, I & Büster, L (eds) *Darkness Visible: The Sculptor's Cave, Covesea, from the Bronze Age to the Picts*, 159–60. Edinburgh: Society of Antiquaries of Scotland.
- Hunter, F 2007 *Beyond the Edge of the Empire: Caledonians, Picts and Romans*. Rosemarkie: Groam House Museum.
- Hunter, F 2010 'Beyond the frontier: interpreting late Roman Iron Age indigenous and imported material culture', in Collins, C & Allason-Jones, L (eds) *Finds from the Frontier: Material Culture in the 4th–5th Centuries*, 96–109. York: Council for British Archaeology.
- Hunter, F 2013 'Hillfort and hacksilver: Traprain Law in the late Roman Iron Age and early prehistoric period', in Hunter, F & Painter, K (eds) *Late Roman Silver: The Traprain Treasure in Context*, 3–10. Edinburgh: Society of Antiquaries of Scotland.
- Hunter, F 2014 'Looking over the wall: the Late and Post-Roman Iron Age north of Hadrian's Wall', in Haarer, F K (ed) *AD 410: The History and Archaeology of Late and Post-Roman Britain*, 206–15. London: Society for the Promotion of Roman Studies.
- Hunter, F 2015 'Craft in context: artefact production in later prehistoric Scotland', in Hunter, F & Ralston, I (eds) *Scotland in Later Prehistoric Europe*, 225–46. Edinburgh: Society of Antiquaries of Scotland.
- Hunter, F 2016 'Discussion of the Iron Age phase: a context for Roman finds on Deeside', in Bradley, R & Nimura, C (eds) *The Use and Reuse of Stone Circles. Fieldwork at Five Scottish Monuments and Its Implications*, 53–5. Oxford: Oxbow.
- Hunter, F 2021a 'Metalworking ceramics', in Hatherley, C & Murray, R (eds) *Culduthel: an Iron Age Craftworking Centre in North-East Scotland*, 104–13. Edinburgh: Society of Antiquaries of Scotland.
- Hunter, F 2021b 'Iron artefacts', in Hatherley, C & Murray, R (eds) *Culduthel: an Iron Age Craftworking Centre in North-East Scotland*, 167–83. Edinburgh: Society of Antiquaries of Scotland.
- Hunter, F 2021c 'The glass artefacts and glassworking debris from Culduthel: typology, discussion and catalogue', in Hatherley, C & Murray, R (eds) *Culduthel: An Iron Age Craftworking Centre in North-East Scotland*, 197–204. Edinburgh: Society of Antiquities of Scotland.
- Hunter, F 2022 'A context for the treasure: Traprain Law and Rome's northern frontier', in Hunter, F, Kaufmann-Heinimann, A & Painter, K (eds) *The Late Roman Silver Treasure from Traprain Law*, 381–92. Edinburgh: National Museums Scotland.
- Hunter, F in prep a *Excavations at Birnie, Moray*.
- Hunter, F in prep b *Excavations at Clarkly Hill, Moray*.
- Hunter, F & Cruickshanks, G 2014 'Metalworking evidence from Berst Ness, Knowe of Skea, Westray', unpublished specialist report, National Museums Scotland for EASE Archaeology.

- Hunter, F & Davis, M 2020 'Glass objects', in Armit, I & Büster, L (eds) *Darkness Visible: The Sculptor's Cave, Covesea, from the Bronze Age to the Picts*, 161–4. Edinburgh: Society of Antiquities of Scotland.
- Hunter, F & Hunter, J 2017 'St Patrick's footprint — an early medieval royal inauguration site at Portpatrick?', *Transactions of The Dumfriesshire and Galloway Natural History and Antiquarian Society* 91: 49–72.
- Hunter, F, McLaren, D & Cruickshanks, G 2018 'The material world of Iron Age Wigtownshire', in Cavers, G & Crone, A (eds) *A Lake Dwelling in its Landscape*, 195–216. Oxford: Oxbow.
- Hunter, J 2006 *Investigations in Sanday, Orkney: Excavations at Pool, Sanday – a Multi-period Settlement from Neolithic to Late Norse Times v. 1*. Kirkwall: Orcadian Ltd.
- Ingemark, D 2014 *Glass, Alcohol and Power in Roman Iron Age Scotland*. Edinburgh: National Museums Scotland.
- Isaac, G 2004 *Place-Names in Ptolemy's Geography* [CD-ROM]. Aberystwyth: CMCS Publications.
- Isaac, G R 2005 'Scotland', in de Hoz, J, Luján, E R & Sims-Williams, P (eds) *New Approaches to Celtic Place-Names in Ptolemy's Geography*, 189–214. Madrid: Ediciones Clásicas.
- Iversen, F 2009 'Royal villas in northern Europe', in Castillo, J A Q (ed) *The Archaeology of Early Medieval Villages in Europe*, 99–112. Leioa: Universidad del País Vasco.
- Iversen, F 2013 'Concilium and Pagus – revisiting the early Germanic thing system of northern Europe', *Journal of the North Atlantic Special Volume 5: Debating the Thing in the North I: Selected Papers from Workshops Organized by The Assembly Project*: 5–17.
- Jackson, A 1984 *The Symbol Stones of Scotland: A Social Anthropological Resolution of the Problem of the Picts*. Stromness: The Orkney Press.
- Jackson, K H 1954 'Two early Scottish names', *Scottish Historical Review* 33: 14–8.
- Jackson, C M & Paynter, S 2016 'A Great Big Melting Pot: Exploring Patterns of Glass Supply, Consumption and Recycling in Roman Coppergate, York', *Archaeometry* 58(1): 68–95.
- Jacobson, G L Jr & Bradshaw, R H W 1981 'The selection of sites for paleovegetational studies', *Quaternary Research* 16: 80–96.
- James, L 2017 *Mosaics in the Medieval World: from Late Antiquity to the Fifteenth Century*. Cambridge: Cambridge University Press.
- Jarman, A O H (ed and trans) 1988 *Aneirin: Y Gododdin. Britain's Oldest Heroic Poem*. Llandysul: Gomer Press.
- Jaworski, K, Pankiewicz, A, Chrószcz, A, & Poradowski, D 2020 'Different approach to horses—the use of equid remains in the Early Middle Ages on the example of Ostrów Tumski in Wrocław', *Animals* 10(12): 2294. <https://doi.org/10.3390/ani10122294>.
- Jobey, G 1973 'A military redoubt on Burnswark Hill, Dumfriesshire', *Transactions of the Dumfriesshire & Galloway Natural History & Antiquarian Society* 50: 72–81.
- Johnson, M, Rees, A & Ralston, I 2003 'Excavation of an early historic palisaded enclosure at Titwood, Mearnskirk, East Renfrewshire', *Scottish Archaeological Journal* 25(2): 129–45.
- Jones, A M & Díaz-Guardamino, M 2019 *Making a Mark: Image and process in Neolithic Britain and Ireland*. Oxford: Oxbow.
- Jones, G 1961a 'Settlement patterns in Anglo-Saxon England', *Antiquity* 35: 221–32.
- Jones, G 1961b 'Early territorial organization in England and Wales', *Geografiska Annaler* 43(1/2): 174–81.
- Jones, R H 2011 *Roman Camps in Scotland*. Edinburgh: Society of Antiquaries of Scotland.
- Jones, S E, Evans, N, Martínez Cortizas, A, Mighall, T M & Noble, G 2021 'Settlement, landscape and land-use change at a Pictish elite centre: assessing the palaeoecological record for economic continuity and social change at Rhynie in N.E. Scotland', *The Holocene* 31(6): 897–914.
- Jørgensen, L 2003 'The spoils of victory – the North in the shadow of the Roman Empire', in Jørgensen, L, Storgaard, B & Gebauer Thomsen, L (eds) *The Spoils of Victory – The North in the Shadow of the Roman Empire*, 12–18. Copenhagen: Nationalmuseet.
- Kabukcu, A & Chabal, L 2021 'Sampling and quantitative analysis methods in anthracology from archaeological contexts: achievements and prospects', *Quaternary International* 593–4: 6–18.
- Kearns, T, Martínón-Torres, M & Rehren, T 2010 'Metal to mould: alloy identification in experimental casting moulds using XRF', *Historical Metallurgy* 44(1): 48–58.
- Kelly, F 1988 *Guide to Early Irish Law*. Dublin: Institute for Advanced Studies.
- Kelly, F 1997 *Early Irish Farming*. Dublin: Dublin Institute for Advanced Studies.
- Kennedy, K & Mainland, I in prep 'The faunal remains from early medieval to early modern deposits in the Rosemarkie Caves'.
- Kenward, H K 2009 *Invertebrates in Archaeology in the North of England*. English Heritage Research Department Report Series 12-2009. Portsmouth: English Heritage.
- Keppie, L 1981 'Excavation of a Roman bathhouse at Bothwellhaugh, 1975–76', *Glasgow Archaeological Journal* 8: 46–94.
- Kerr, T, Harney, L, Kinsella, J, O'Sullivan, A & McCormick, F 2009 'Early medieval dwellings and settlements in Ireland, AD 400–1100', *Early Medieval Archaeology Project (EMAP) Report 3.2*.
- Kerr, T, Doyle, M, Seaver, M, McCormick, F & O'Sullivan, A 2012 *Industrial Activity on Rural Irish Secular Sites, A.D. 400-1100*. EMAP Report 6. Dublin: Earl Medieval Research Project (EMAP).
- Kiernan, P 2009 *Miniature Votive Offerings in the North-west Provinces of the Roman Empire*. Verlag: Franz Philipp Rutzen.
- Kilbride-Jones, H 1935 'An Aberdeenshire Iron Age miscellany: (1) stone circle at Foularton; (2) Bronze Terret from Rhynie, and distribution of the type', *Proc Soc Antiq Scot* 69: 445–54.
- Kilbride-Jones, H E 1936 'Scots zoomorphic penannular brooches', *Proc Soc Antiq Scot* 70: 124–38.
- Kilpatrick, K 2011 'The iconography of the Pupil Stone: sculptural and literary comparisons with a Pictish motif', *Proc Soc Antiq Scot* 141: 159–205.
- Kilpatrick, K 2021 'The Newton Stones and writing in Pictland, part 2: the Newton Stone ogham, Pictish Latin-letter alphabetic inscription and the Pictish symbol system', *Proc Soc Antiq Scot* 150: 407–34.
- Kirby, M 2011 'Lockerbie Academy: Neolithic and Early Historic timber halls, a Bronze Age cemetery, an undated enclosure and a post-medieval corn-drying kiln in south-west Scotland', *Scottish Archaeological Internet Reports* 46.
- Koch, J T 2003 'Celts, Britons, and Gaels – names, peoples, and identities', *Transactions of the Honourable Society of Cymmrodorion*, New Series 9: 41–56.
- Kresten, P & Ambrosiani, B 1992 'Swedish vitrified forts – a reconnaissance study', *Fornvännen* 87: 1–17.
- Kresten, P & Goedicke, C 1996 'TL-dating of vitrified ramparts: did Birnam Wood go to Dunsinane hill in A.D. 455?', *Proceedings of the VII Nordic Conference on the Application of Scientific Methods in Archaeology* 11: 7–11.

BIBLIOGRAPHY

- Kresten, P, Kero, L & Chyessler, J 1993 'Geology of the vitrified hill-fort Broborg in Uppland, Sweden', *Geologiska Föreningens i Stockholm Förhandlingar* 115(1): 13–24.
- Kresten, P, Goedicke, C & Manzano, A 2003 'TL-dating of vitrified material', *Geochronometria* 22: 9–14.
- Küchler, S 1987 'Malangan: art and memory in a Melanesian society', *Man* 22(2): 238–55.
- Kuhry, P 1985 'Transgression of a raised bog across a covers and ridge originally covered with an oak-lime forest. Palaeoecological study of a Middle Holocene local vegetation succession in the Amtsven (north-west Germany)', *Review of Palaeobotany and Palynology* 44: 303–53.
- Kuhry, P 1997 'The palaeoecology of a treed bog in western boreal Canada: a study based on microfossils, macrofossils and physico-chemical properties', *Review of Palaeobotany and Palynology* 96: 183–224.
- Kulikowski, M 2016 *Imperial Triumph. The Roman World from Hadrian to Constantine*. London: Profile.
- Laing, L 1993 *Celtic Ornamental Metalwork in the British Isles c AD 400-1200*. Oxford: Tempus Reparatum.
- Laing, L & Laing, J 1984 'The date and origin of the Pictish symbols', *Proc Soc Antiq Scot* 114: 261–76.
- Laing, L & Longley, D 2006 *The Mote of Mark: A Dark Age Hillfort in South-West Scotland*. Oxford: Oxbow.
- Lambrick, G 1977 *Archaeology and Agriculture: A Survey of Modern Cultivation Methods and the Problems of Assessing Plough Damage to Archaeological Sites*. London: Council for British Archaeology.
- Lambrick, G 2004 'The management of archaeological sites in arable landscapes', in Nixon, T J P (ed) *Preserving Archaeological Sites In Situ? Proceedings of the 2nd Conference, 12-14 September 2001*, 188–96. London: Museum of London.
- Lane, A & Campbell, E 2000 *Dunadd: An Early Dalriadic Capital*. Oxford: Oxbow.
- Lang, J 2015 'The Anglo-Saxon cemetery at Dover Buckland, Kent, UK and the technology of some of the iron artifacts', *Der Anschnitt* 26.
- Larsson, L 2007 'The Iron Age ritual building at Uppåkra, southern Sweden', *Antiquity* 81: 11–25.
- Laurence, A R, Thoms, A V, Bryant, V M & McDonough, C 2011 'Airborne starch granules as a potential contamination source at archaeological sites', *Journal of Ethnobiology* 21(2): 213–32.
- Lauritsen, M, Allen, R, Alves, J M, Ameen, C, Fowler, T, Irving-Pease, E, Larson, G, Murphy, L J, Outram, A K, Pilgrim, E, Shaw, P A & Sykes, N 2018 'Celebrating Easter, Christmas and their associated alien fauna', *World Archaeology* 50(2): 285–99.
- Lee, R 2010 'The use of information theory to determine the language character type of Pictish symbols', *Scottish Archaeological Journal* 32(2): 137–76.
- Lee, R, Jonathan, P & Ziman, P 2010 'Pictish symbols revealed as a written language through application of Shannon Entropy', *Proceedings of the Royal Society* 10: 1–16.
- Lemoine, X, Zeder, M A, Bishop, K J, & Rufolo, S J 2014 'A New System for Computing Dentition-Based Age Profiles in Sus Scrofa', *Journal of Archaeological Science* 47: 179–93.
- Lennstrom, H A & Hastorf, C A 1992 'Testing old wives' tales in palaeoethnobotany: a comparison of bulk and scatter sampling schemes from Pancán, Peru', *Journal of Archaeological Science* 19: 205–29.
- Levine, M 1982 'The Use of Crown Height Measurements Sequences to Age Horse Teeth', in Wilson, B, Grigson, C & Payne, S (eds) *Ageing and Sexing Animal Bones from Archaeological Sites*, 223–50. Oxford: British Archaeological Reports.
- Lewis, M 2017 *Paleopathology of Children: Identification of Pathological Conditions in the Human Skeletal Remains of Non-Adults*. Cambridge: Academic Press.
- Lind. Cart. = Dowden, John (ed) 1903 *Chartulary of the Abbey of Lindores 1195-1479*. Edinburgh: Scottish History Society.
- Ljungkvist, J & Frölund, P 2015 'Gamla Uppsala – the emergence of a centre and a magnate complex', *Journal of Archaeology and Ancient History* 16: 1–29.
- Lock, G & Ralston, I B M 2022 *Atlas of the Hillforts of Britain and Ireland*. Edinburgh: Edinburgh University Press.
- Logan, J 1829 'Observations on several monumental stones in the north of Scotland', *Archaeologia* 22: 55–8.
- Løkka, N 2013 'Þing goða – the mythological assembly site', *Journal of the North Atlantic Special Volume 5: Debating the Thing in the North I: Selected Papers From Workshops Organized by The Assembly Project*: 18–27.
- Longin, R 1971 'New method of collagen extraction for radiocarbon dating', *Nature* 230: 241–2.
- Ludemann, T 2010 'Past fuel wood exploitation and natural forest vegetation in the Black Forest, the Vosges and neighbouring regions in western Central Europe', *Palaeogeography, Palaeoclimatology, Palaeoecology* 291(1–2): 154–65.
- Lynn, C 1994 'Houses in rural Ireland, A.D. 500–1000', *Journal of Irish Archaeology* 57: 81–94.
- Mac Airt, S & Mac Niocaill, G (eds and trans) 1983 *The Annals of Ulster (To A.D. 1131) Part I Text and Translation*. Dublin: Dublin Institute for Advanced Studies.
- Mac Cana, P 1980 *The Learned Tales of Medieval Ireland*. Dublin: Dublin Institute for Advanced Studies.
- MacCotter, P 2008 *Medieval Ireland: Territorial, Political and Economic Divisions*. Dublin: Four Courts Press.
- MacDonald, A 1987 'Caiseal, Cathair, Dùn, Lios and Ràth in Scotland: 3 Lios', *Ainm* 2: 37–54.
- MacDonald, J 1891 *Place Names in Strathbogie: With Notes Historical, Antiquarian and Descriptive*. Aberdeen: D. Wylie.
- MacDonald, A D S & Laing, L R 1970 'Early ecclesiastical sites in Scotland: a field survey, part II', *Proc Soc Antiq Scot* 102: 129–45.
- MacGregor, M 1976 *Early Celtic Art in North Britain: A Study of Decorative Metalwork from the Third Century B.C. to the Third Century A.D.* Leicester: Leicester University Press.
- MacGregor, A & Bolick, E 1993 *A Summary Catalogue of the Anglo-Saxon Collections (Non-ferrous Metalwork)*. Oxford: BAR Publishing.
- Mack, A 2007 *Symbols and Pictures: The Pictish Legacy in Stone*. Brechin: The Pinkfoot Press.
- MacKie, E 1966a 'Finavon vitrified fort', *Discovery Excavation Scotland 1966*: 2–3.
- MacKie, E 1966b 'Oathlaw: Finavon vitrified fort', *Discovery Excavation Scotland 1966*: 4.
- MacKie, E W 1967 'Timber-laced and vitrified walls in Iron Age forts: causes of vitrification', *Glasgow Archaeological Journal* 1(1): 69–71.
- MacLagan, C 1875 *The Hill Forts, Stone Circles, and Other Structural Remains of Ancient Scotland*. Edinburgh: Edmonston and Douglas.
- MacLagan, C 1880 'Notice of the discovery of two sculptured stones, with symbols, at Rhynie, Aberdeenshire', *Proc Soc Antiq Scot* 14: 11–13.
- MacLean, D 2014 'Tarradale: a Pictish Royal Centre?', unpublished MLitt thesis, University of Glasgow.
- MacNeill, E (trans) 1923 'Crìth Gablach', *Proceedings of the Royal Irish Academy* 36(C): 265–316.

- Macquarrie, A (ed) 2012 *Legends of the Scottish Saints: Readings, Hymns and Prayers for the Commemorations of Scottish Saints in the Aberdeen Breviary*. Dublin: Four Courts Press.
- MacSween, A 2006 'The pottery', in Hunter, J *Investigations in Sanday, Orkney. Vol 1: Excavations at Pool, Sanday. A Multi-period Settlement from Neolithic to Late Norse Times*, 287–353. Kirkwall: Orcadian Ltd.
- Madella, M, Alexandre, A & Ball, T 2005 'International code for phytolith nomenclature 1.0.', *Annals of Botany* 96: 253–60.
- Madgwick, R, Grimes, V, Lamb, A, Nederbragt, A, Evans, J & McCormick, F 2019 'Feasting and mobility in Iron Age Ireland: multi-isotope analysis reveals the catchment of Navan Fort, Ulster', *Scientific Reports* 9: 19792
- Mainland, I 2023 'Feasts, food and fodder: Viking and Late Norse farming systems in Scotland', in Horne, T, Pierce, E & Barrowman, R (eds) *The Viking Age in Scotland: Studies in Scottish Scandinavian Archaeology*, 170–88. Edinburgh: Edinburgh University Press.
- Mainland, I & Batey, C 2018 'The nature of the feast: commensality and the politics of consumption in Viking Age and Early Medieval Northern Europe', *World Archaeology* 50(5): 781–803.
- Mainland, I, Ewens, V & Webster, C 2019 'The mammal bones', in Griffiths, D, Harrison, J & Athanson, M (eds) *Beside the Ocean: Coastal Landscapes at the Bay of Skail, Marwick and Birsay Bay, Orkney. Archaeological Research 2003-17*, 175–99. Oxford: Oxbow.
- Makarewicz, C A & Sealy, J 2015 'Dietary reconstruction, mobility, and the analysis of ancient skeletal tissues: Expanding the prospects of stable isotope research in archaeology', *Journal of Archaeological Science* 56: 146–58.
- Maldonado, A 2013 'Burial in early medieval Scotland: new questions', *Medieval Archaeology* 57: 1–34.
- Mann, J C 1974 'The northern frontier after A.D. 369', *Glasgow Archaeological Journal* 3: 34–42.
- Manning, W H 1985 *Catalogue of the Romano-British Iron Tools, Fittings and Weapons in the British Museum*. London: British Museum.
- Manning, W H 1995 *Report on the Excavations at Usk 1965-1976: the Roman small finds*. Cardiff: University of Wales Press.
- Mannion, M 2015 *Glass Beads from Early Medieval Ireland: Classification, Dating, Social Performance*. Oxford: Archaeopress.
- Marguerie, D & Hunot, J-Y 2007 'Charcoal analysis and dendrology: data from archaeological sites in north-western France', *Journal of Archaeological Science* 34: 1417–33.
- Marinoni, S 2023 'Forged in Fire: an Anthracological Investigation of Woodland Management and Fuel Selection for Iron Age Metalworking at Culduthel, Invernesshire', unpublished Master's thesis, University of the Highlands and Islands.
- Marston, J M 2009 'Modeling wood acquisition strategies from archaeological charcoal remains', *Journal of Archaeological Science* 36(10): 2192–200.
- Marziniak, S 2003 *Early Anglo-Saxon Belt Buckles (Late 5th to Early 8th Centuries AD)*. Oxford: BAR Publishing.
- Masson-MacLean, E, Niehaus, S, Fraser, E, Lee, V, Prado, S, Czere, O, Fawcett, J, O'Driscoll, J, Girdland-Fink, L, Noble, G & Britton, K 2023 'New zooarchaeological evidence from Pictish sites in Scotland: implications for early medieval economies and animal-human relationships', *Frontiers in Environmental Archaeology* 2: 1208908.
- Mattingly, D 2006 *An Imperial Possession. Britain in the Roman Empire*. London: Penguin.
- Mauss, M 2002 [1925] *The Gift: Forms and Functions of Exchange in Archaic Societies*. London: Routledge.
- Maxwell, G S 1987 'Settlement in southern Pictland: a new overview', in Small, A (ed) *The Picts: A New Look at Old Problems*, 31–44. Dundee: University of Dundee Department of Geography.
- McCormick, F 1992 'Early Faunal Evidence for Dairying', *Oxford Journal of Archaeology* 11(2): 201–10.
- McCormick, F 2007 'The Horse in Early Ireland', *Anthropozoologica* 42(1): 85–104.
- McCormick, F 2008 'The Decline of the Cow: Agricultural and Settlement Change in Early Medieval Ireland', *Peritia* 20: 209–24.
- McCormick, F 2014 'Agriculture, settlement and society in Early Medieval Ireland', *Quaternary International* 346: 119–30.
- McCullagh, R P J & Tipping, R 1998 (eds) *The Lairg Project 1988-1996. The Evolution of an Archaeological Landscape in Northern Scotland*. Edinburgh: Scottish Trust for Archaeological Research.
- McDonnell, J G & Milns, J 2015 'Ferrous and non-ferrous metalworking', in Dockrill, S, Bond, J, Turner, V, Brown, L, Bashford, D, Cussans, J & Nicholson, R (eds) *Excavations at Old Scatness, Shetland Volume 2: The Broch and Iron Age Village*, 392–428. Lerwick: Shetland Heritage Publications.
- McGalliard, S & Wilson, D 2021 'Bronze Age and Iron Age archaeology at Thainstone Business Park, Inverurie, Aberdeenshire: an investigation of structures and funerary practices', *Scottish Archaeological Internet Reports* 95.
- McGill, C 2001 'Pottery', in Gregory, R A & Jones, G D B 'Survey and excavation at Tarradale, Highland', *Proc Soc Antiq Scot* 131: 241–66.
- McGill, C 2004 'Excavations of cropmarks at Newbarns, near Inverkeilor, Angus', *Tayside and Fife Archaeological Journal* 10: 94–118.
- McHardy, A B 1906 'On vitrified forts, with results of experiments as to the probable manner in which their vitrification may have been produced', *Proc Soc Antiq Scot* 40: 136–50.
- McKenzie, J 2014 'Manuring practices in Scotland: deep Anthropogenic soils and the historical record', in Ballin Smith, B, Taylor, S & Williams, G (eds) *West Over Sea: Studies in Scandinavian Sea-Borne Expansion and Settlement Before 1300*, 401–17. Boston: Brill.
- McKerracher, M 2018 *Farming Transformed in Anglo-Saxon England: Agriculture in the Long Eighth Century*. Oxford: Windgather Press.
- McLaren, D 2016 'The provision of amulets and heirlooms in Early Bronze Age children's burials in Scotland', in Hunter, F & Sheridan, A (eds) *Ancient Lives: Object, People and Place in Early Scotland. Essays for David V Clarke on his 70th Birthday*, 245–61. Leiden: Sidestone Press.
- McLaren, D & Dungworth, D 2021 'The manufacture of iron at Culduthel: ferrous metalworking debris and iron metallurgy', in Hatherley, C & Murray, R (eds) *Culduthel: An Iron Age Craft Centre*, 142–67. Edinburgh: Society of Antiquaries of Scotland.
- McNeill, P G B & MacQueen, H (eds) 1996 *Atlas of Scottish History to 1707*. Edinburgh: The Scottish Medievalists.
- Meaney, A L 1981 *Anglo-Saxon Amulets and Curing-stones*. Oxford: BAR Publishing.
- Meehan, B 1996 *The Book of Durrow: A Medieval Masterpiece at Trinity College Dublin*. Dublin: Town House Dublin.
- Menghin, W 1983 *Das Schwert im Frühen Mittelalter. Chronologisch-typologische Untersuchungen zu Langschwertern aus germanischen Gräbern des 5. bis 7. Jahrhunderts n. Chr.*, Wissenschaftliche Beibände zum Anzeiger des Germanischen Nationalmuseums. Stuttgart: Theiss.
- Mercader, J, Abtosway, M, Baquedano, E, Bird, R W, Diez-Martin, F, Domínguez-Rodrigo, M, Favreau, J, Itambu, M, Lee, P, Mabulla, A, Patalano, R, Pérez-González, A, Santonja, M, Tucker, L &

BIBLIOGRAPHY

- Walde, D 2017 'Starch contamination landscapes in field archaeology: Olduvai Gorge, Tanzania', *Boreas* 46(4): 918–34.
- Mercer, R & Tipping, R 1994 'The prehistory of soil erosion in the northern and eastern Cheviot hills, Anglo-Scottish borders', in Foster, S & Smout, T (eds) *The History of Soils and Field Systems*, 1–25. Aberdeen: Scottish Cultural Press.
- Merkel, S W 2016 *Silver and the Silver Economy of Hedeby*. Bochum: Verlag Marie Leidorf.
- Miket, R 2013 'Understanding British/Anglo-Saxon continuity at Gefrin: Brian Hope-Taylor's excavations on Yeavinger Bell', *Archaeologia Aeliana* 42: 133–60.
- Miks, C 2007 *Studien zur römischen Schwertbewaffnung in der Kaiserzeit. Text, Kölner Studien zur Archäologie der Römischen Provinzen*. Marie Leidorf, Rahden/Westf.
- Mitchell, J 2019 'Monumental Landscapes: the Early Medieval Barrow and Cairn Cemeteries of Northern and Eastern Scotland', unpublished PhD thesis, University of Aberdeen.
- Mitchell, J & Noble, G 2017 'The monumental cemeteries of northern Pictland', *Medieval Archaeology* 61: 1–40.
- Mitchell, J, Cook, M, Dunbar, L, Engl, R, Ives, R & Noble, G 2020 'Monumental cemeteries of Pictland: excavation and dating evidence from Greshop, Moray, and Bankhead of Kinloch, Perthshire', *Tayside and Fife Archaeological Journal* 26: 21–34.
- Mommsen, T (ed) 1895 *C. Iulii Solini. Collectanea Rerum Memorabilium*. Berlin: Weidmann.
- Monk, M 1986 'Evidence from macroscopic plant remains from crop husbandry in prehistoric and early historic Ireland', *Journal of Irish Archaeology* 3: 31–6.
- Montero-Ruiz, I & Murillo-Barroso, M 2021 'A scientific investigation of metalworking at Garranes', in O'Brien, W & Hogan, N *Garranes: An Early Medieval Royal Site in South-West Ireland*, 263–88. Oxford: Archaeopress.
- Montgomery J 2002 'Lead and strontium isotope compositions of human dental tissues as an indicator of ancient exposure and population dynamics: The application of isotope source-tracing methods to identify migrants among British archaeological burials and a consideration of ante-mortem uptake, tissue stability and post-mortem diagenesis', PhD dissertation, University of Bradford.
- Moore, P D, Webb, J A & Collinson, M E 1991 *Pollen Analysis*. London: Blackwell Scientific.
- Moray Reg. = Innes, C (ed) 1837 *Registrum Episcopatus Moraviensis*. Edinburgh: Bannatyne Club.
- Morell-Hart, S 2015 'Río Amarillo: 2015 microbotanical extractions from artifacts', unpublished report.
- Morell-Hart, S 2019 'Techniques for integrating macrobotanical and microbotanical datasets: examples from pre-Hispanic northwestern Honduras', *Journal of Field Archaeology* 44: 234–49.
- Morell-Hart, S, Joyce, R A & Henderson, J S 2014 'Multi-proxy analysis of plant use at Formative Period Los Naranjos, Honduras', *Latin American Antiquity* 25: 65–81.
- Morell-Hart, S, Joyce, R A, Henderson, J S & Cane, R 2019 'Ethnoecology in pre-Hispanic Central America: foodways and human-plant interfaces', *Ancient Mesoamerica* 30, 535–53.
- Moskal-del Hoyo, M, Wachowiak, M & Blanchette, R A 2010 'Preservation of fungi in archaeological charcoal', *Journal of Archaeological Science* 37(9): 2106–16.
- MPRG 2016 'A standard for pottery studies in archaeology'. Available online: https://www.prehistoricpottery.org/_files/ugd/b40101_39fd10d8aec545a9aac6c14d98d821a9.pdf Accessed 22 July 2022.
- Nakagawa T, Brugiapaglia, E, Digerfelt, G, Reille, M, de Beaulieu, J L & Yasuda, Y 1998 'Dense-media separation as a more efficient pollen extraction method for use with organic sediment/deposit samples: comparison with the conventional method', *Boreas* 27: 15–24.
- Näsman, U 1999 'The ethnogenesis of the Danes and the making of a Danish kingdom', in Dickinson, T M & Griffiths, D (eds) *The Making of Kingdoms. Anglo-Saxon Studies in Archaeology and History* 10, 1–10. Oxford: Oxford University School of Archaeology.
- Nehlich O 2015 'The application of sulphur isotope analyses in archaeological research: a review', *Earth-Science Reviews* 142: 1–17.
- Nehlich, O & Richards, M P 2009 'Establishing collagen quality criteria for sulphur isotope analysis of archaeological bone collagen', *Archaeological and Anthropological Sciences* 1: 59–75.
- Neish, J 1859 'Reference notes to plan and views of ancient remains on the summit of the Laws, Forfarshire', *Proc Soc Antiq Scot* 3: 440–54.
- Neish, J 1865 'Further notice of explorations on the Hill of the Laws, Forfarshire', *Proc Soc Antiq Scot* 5: 321–2.
- Neumann, K, Strömberg, C A E, Ball, T, Albert, R M, Vrydaghs, L & Cummings, L S 2019 'International code for phytolith nomenclature (ICPN) 2.0', *Annals of Botany* 124: 189–99.
- Newman, C 1998 'Reflections on the making of a "royal site" in early Ireland', *World Archaeology* 30: 127–41.
- Newman, C 2007 'Procession and symbolism at Tara: analysis of Tech Midchuarta (the Banqueting Hall) in the context of the Sacral Campus', *Oxford Journal of Archaeology* 26(4): 415–38.
- Ní Bhrolcháin, M 2009 *An Introduction to Early Irish Literature*. Dublin: Four Courts.
- Nicolay, J A W 2014 'The splendour of power: early medieval kingship and the use of gold and silver in the southern North Sea area'. Groningen: Barkhuis and University of Groningen.
- Niehaus, S 2021 'Firewood, construction wood, and crops in northern Pictland: a regional review and a case study of Cairn More, Aberdeenshire', unpublished MSc dissertation, University of Sheffield.
- Niehaus, S 2022 'Burghead 2021 archaeobotanical report', unpublished report, University of Aberdeen.
- Nieke, M 1993 'Penannular and related brooches: secular ornament or symbol in action?', in Spearman, R M & Higgitt, J (eds) *The Age of Migrating Ideas: Early Medieval Art in Northern Britain and Ireland*, 128–34. Edinburgh: National Museums of Scotland.
- Nieke, M R & Duncan, H B 1988 'Dalriada: the establishment and maintenance of an Early Historic kingdom in Northern Britain', in Driscoll, S T & Nieke, M R (eds) *Power and Politics in Early Medieval Britain and Ireland*, 6–21. Edinburgh: Edinburgh University Press.
- Niles, J D 2007 *Beowulf and Lejre*. Tempe: ACMRS.
- Nisbet, H C 1974 'A geological approach to vitrified forts: part 1, the archaeological and scientific background', *Science & Archaeology* 12: 3–12.
- Nisbet, H C 1975 'A geological approach to vitrified forts: part 2, bed-rock and building stones', *Science & Archaeology* 15: 3–16.
- Noble, G 2006 *Neolithic Scotland: Timber, Stone, Earth and Fire*. Edinburgh: Edinburgh University Press.
- Noble, G & Evans, N (eds) 2019 *The King in the North. The Pictish Realms of Fortriu and Ce*. Edinburgh: Birlinn.
- Noble, G & Evans, N 2022 *Picts: Scourge of Rome, Rulers of the North*. Edinburgh: Birlinn.
- Noble, G & Gondek, M 2011 'Symbol stones in context: excavations at Rhynie, an undocumented Pictish power centre of the 6th–7th centuries AD?', *Medieval Archaeology* 55: 317–21.

- Noble, G & O'Driscoll, J 2023 'In search of the Picts at Aberlemno'. *British Archaeology*.
- Noble, G & Sveinbjarnarson, O 2012 'Monboddò: geophysical survey and excavation', *Discovery & Excavation Scotland* 13: 18.
- Noble, G, Gondek, M, Campbell, E & Cook, M 2013 'Between pre-history and history: the archaeological detection of social change among the Picts', *Antiquity* 87: 1136–50.
- Noble, G, Gondek, M & MacIver, C 2015 'REAP 2015. Excavation of a palisaded and ditched enclosure and timber buildings in association with the Craw Stane, Rhynie, Aberdeenshire', unpublished data structure report. University of Aberdeen.
- Noble, G, Christie, C & Philip, E 2016a 'Life is the pits! Ritual, refuse and Mesolithic–Neolithic settlement traditions in north-east Scotland', in Brophy, K, MacGregor, G & Ralston, I B M (eds) *The Neolithic of Mainland Scotland*, 171–99. Edinburgh: Edinburgh University Press.
- Noble, G, Goldberg, M, McPherson, A & Sveinbjarnarson, O 2016b '(Re)discovering the Gaulcross hoard', *Antiquity* 90(351): 726–41.
- Noble, G, Gondek, M & MacIver, C 2016c 'REAP 2016. Excavation of an enclosure complex in association with the Craw Stane, Rhynie, Aberdeenshire', unpublished data structure report. University of Aberdeen.
- Noble, G, MacIver, C & O'Driscoll, J 2017 'Tap O' Noth 2017, Data Structure Report', unpublished report, University of Aberdeen.
- Noble, G, Goldberg, M, & Hamilton, D 2018a 'The development of the Pictish symbol system: inscribing identity beyond the edges of Empire', *Antiquity* 92: 1329–48.
- Noble, G, MacIver, C, O'Driscoll, J & Masson-Maclean, E 2018b 'Tap O' Noth 2018, Data Structure Report', unpublished report, University of Aberdeen.
- Noble, G, Cruickshanks, G, Dunbar, L, Evans, N, Hall, D, Hamilton, D, MacIver, C, Masson-MacLean, E, O'Driscoll, J, Paskulin, L & Sveinbjarnarson, O 2019a 'Kinneddar: a major ecclesiastical centre of the Picts', *Proceedings of the Society of Antiquaries of Scotland* 148: 113–45.
- Noble, G, Lamont, P & Masson-MacLean, E 2019b 'Assessing the ploughzone: the impact of cultivation on artefact survival and the cost/benefits of topsoil stripping prior to excavation', *Journal of Archaeological Science: Reports* 23: 549–58.
- Noble, G, Gondek, M, Campbell, E, Evans, N, Hamilton, D, Ross, A & Taylor, S 2019c 'A powerful place of Pictland: interdisciplinary perspectives on a power centre of the 4th to 6th centuries AD', *Medieval Archaeology* 63(1): 59–94.
- Noble, G, Evans, N, Hamilton, D, MacIver, C, Masson-Maclean, E & O'Driscoll, J 2020a 'Dunnicaer, Aberdeenshire, Scotland: a Roman Iron Age promontory fort beyond the frontier', *Archaeological Journal* 177: 1–83.
- Noble, G, Masson-MacLean, E, O'Driscoll, J, MacIver, C & Sveinbjarnarson, O 2020b 'New dates for enclosed sites in north-east Scotland', *Proc Soc Antiq Scot* 149: 165–96.
- Noble, G, Evans, N, Goldberg, M & Hamilton, D 2022 'Burning matters: the rise and fall of an early-medieval fortified centre. A new chronology for Clatchard Craig', *Medieval Archaeology* 66(2): 266–303.
- Noble, G, Gonzalez Bojaca, L L, Worsman, R & O'Driscoll, J 2024 'Defining the sanctissimus: the early medieval church enclosures of Pictland', *Proc Soc Antiq Scot* 153: 121–40.
- Nørgård Jørgensen, A 2008 *Porskjær Mosefund. Jernalderen i Nordeuropa, Jysk Arkæologisk Selskabs Skrifter*. Århus: Aarhus Universitetsforlag.
- Nowakowski, J A 2019 'Looking for early medieval buildings in Cornwall: recent work at Tintagel Castle, north Cornwall', in Holden, P (ed) *The Distinctiveness of Cornish Buildings. Conference Papers Marking the Fiftieth Anniversary of the Cornish Buildings Group Presented at St Austell in 2019*, 56–77. Donington: Shaun Tyas.
- Nowakowski, J A & Gossip, J 2019 *Tintagel Castle Archaeological Research Project 2017, Cornwall. Post-excavation Assessment and Updated Project Design 20L8*. CAU report 2018R044. Truro: Cornwall Council.
- Nowakowski, J A & Thomas, A C 1992 *Graae News from Tintagel. An Account of a Second Season of Archaeological Excavation at Tintagel Churchyard, Cornwall 1991*. Truro: Cornwall County Council.
- NSA = Society for the Benefit of the Sons and Daughters of the Clergy (ed) 1845 *The New Statistical Account of Scotland*, 15 vols. Edinburgh: W. Blackwood & Sons.
- O'Brien, E 2009 'Pagan or Christian? Burial in Ireland during the 5th to 8th centuries AD', in Edwards, N (ed) *The Archaeology of Early Medieval Celtic Churches*, 134–53. Leeds: Maney Publishing, Leeds.
- O'Brien, W & Hogan, N 2021 *Garranes: An Early Medieval Royal Site in South-West Ireland*. Oxford: Archaeopress.
- O'Brien, W & O'Driscoll, J 2017 *Hillforts, Warfare and Society in Bronze Age Ireland*. Oxford: Archaeopress.
- O'Driscoll, J and Noble, G forthcoming 'New dating for Eildon Hill North'
- Ogilvie, R M & Richmond, I (eds) 1967 *Cornelii Taciti De Vita Agricolae*. Oxford: Clarendon Press.
- O'Grady, O J T 2014 'Judicial assembly sites in Scotland: archaeological and place-name evidence of the Scottish Court Hill', *Medieval Archaeology* 58: 110–42.
- O'Grady, O J T 2018 'Accumulating kingship: the archaeology of elite assembly in medieval Scotland', *World Archaeology* 50(1): 137–49.
- Ó Maolalaigh, R 1998 'Place-names as a resource for the historical linguist', in Taylor, S (ed) *The Uses of Place-Names*, 12–53. Edinburgh: Scottish Cultural Press.
- Oram, R 2003 'Continuity, adaptation and integration: the earls and earldom of Mar, c.1150–1300', in Boardman, S & Ross, A (eds) *The Exercise of Power in Medieval Scotland, c.1200–1500*, 46–66. Dublin: Four Courts.
- Oram, R 2016 'The medieval church in the dioceses of Aberdeen and Moray', in Geddes, J (ed) *Medieval Art, Architecture and Archaeology in the Dioceses of Aberdeen and Moray*, 16–32. Leeds: Routledge.
- Ordnance Survey Name Books (ONS Name Book 1865–71) Aberdeenshire Book 78, 1. Available at: <https://scotlandplaces.gov.uk/digital-volumes/ordnance-survey-namebooks/aberdeenshire-os-name-books-1865-1871/aberdeenshire-volume-78/1>. Accessed 11 May 2018.
- Ó Ríordáin, S P 1942 'The excavation of a large earthen ringfort at Garranes, Co. Cork', *Proceedings of the Royal Irish Academy* 47C: 77–150.
- Ó Ríordáin, S P & Hartnett, P J 1943 'The excavation of Ballycatteem fort, Co. Cork Mayo', *Proceedings of the Royal Irish Academy* 53C: 89–119.
- OS 1870 Ordnance Survey 6-inch 1st ed, Aberdeenshire LII. <https://maps.nls.uk>. Accessed 23 November 2023.
- OSA = Sinclair, J (ed) 1791–9 *The Statistical Account of Scotland*. Edinburgh: William Creech.
- Oswald, A W P & Pearson, T 2005 'Yeavinger Bell Hillfort', in Frodsham, P & O'Brien, C (eds) *Yeavinger: People, Power and Place*, 98–126. Tempus: Stroud.
- Oswald, A, Ainsworth, S & Pearson, T 2006 *Hillforts: Prehistoric Strongholds of Northumberland National Park*. Swindon. English Heritage.

BIBLIOGRAPHY

- O'Sullivan, A 2008 'Early medieval houses in Ireland: social identity and dwelling spaces', *Peritia* 20: 225–56.
- O'Sullivan, A, McCormick, F, Kerr, T R & Harney, L 2014 *Early Medieval Ireland AD 400–1100: The Evidence from Archaeological Excavation*. Dublin: Royal Irish Academy Monograph.
- O'Sullivan, J 1999 'Iona: archaeological investigations 1875–1996', in Braun, D & Clancy, T (eds) *Spes Scottorum: Hope of the Scots. Saint Columba, Iona and Scotland*, 215–43. Edinburgh: T and T Clark.
- Ottaway, P 1992 *Anglo-Scandinavian Ironwork from 16-22 Coppergate*. London: Council for British Archaeology.
- Owen, O A 1992 'Eildon Hill North', in Rideout, J S, Owen, O A & Halpin, E (eds) *Hillforts of Southern Scotland*, 21–72. Edinburgh: AOC (Scotland) Ltd and Historic Scotland.
- Oxford Archaeology 2002 *The Management of Archaeological Sites in Arable Landscapes*. London: DEFRA.
- Oxford Archaeology 2010 *Trials to Identify Soil Cultivation Practices to Minimise the Impact on Archaeological Sites*. London: DEFRA.
- Pals, J P, van Geel, B & Delfos, A 1980 'Paleoecological studies in the Klokkeveel bog near Hoogkarspel (Noord Holland)', *Review of Palaeobotany and Palynology* 30: 371–418.
- Pantos, A & Semple, S J 2004 *Assembly Places and Practices in Medieval Europe*. Dublin: Four Courts Press.
- Parkhouse, J & Smith N 1994 'An Anglo-Saxon cemetery at Bottledump Corner, Tattenhoe, Milton Keynes, Buckinghamshire', *Records of Buckinghamshire* 36: 103–19.
- Parnell, J, Akinsanpe, T O, Armstrong, J G T, Boyce, A J, Still, J W, Bowden, S A, Clases, D, Gonzalez de Vega, R & Feldmann, J 2022 'Trace element geochemistry in the earliest terrestrial ecosystem, the Rhynie Chert', *Geochemistry, Geophysics, Geosystems* 23(12): e2022GC010647.
- Paynter, S 2002 'The metalworking remains from Westhawk Farm, near Ashford, Kent', *Centre for Archaeology Report* 84. Swindon: English Heritage.
- Paynter, S & Jackson, C 2016 'Re-used Roman rubbish: a thousand years of recycling glass', *Post-Classical Archaeologies* 6: 31–52.
- Peacock, D 2013 *The Stone of Life: Querns Mills and Flour-production in Europe up to c. AD 500*. Southampton: Highfield.
- Pearsall, D M 2015 *Paleoethnobotany: A Handbook of Procedures*, 3rd ed. Walnut Creek: Left Coast Press Inc.
- Pearsall, D M, Chandler-Ezell, K & Zeidler, J A 2004 'Maize in ancient Ecuador: results of residue analysis of stone tools from the Real Alto site', *Journal of Archaeological Science* 31: 423–42.
- Pearson, T 1998 *Yeavinger Bell Hillfort, Northumberland*. Swindon: RCHME.
- Pellegrini, M, Pouncett, J, Jay, M, Pearson, M P & Richards, M P 2016 'Tooth enamel oxygen "isoscapes" show a high degree of human mobility in prehistoric Britain', *Scientific Reports* 6: 34986.
- Perrin, J 1999 'Roman pottery from the excavations at and near to the Roman small town of Durobrivae, Water Newton, Cambridgeshire, 1956–1958', *Journal of Roman Pottery Studies* 8: 1–141.
- Perrotti, A G & Van Aspern, E 2019 'Dung fungi as a proxy for mega-herbivores: opportunities and limitations for archaeological applications', *Vegetation History and Archaeobotany* 28(1): 93–104.
- Perry, D R 2000 *Castle Park Dunbar: Two Thousand Years on a Fortified Headland*. Edinburgh: Society of Antiquaries of Scotland.
- Peteranna, M & Birch, S 2019 'Storm damage at Craig Phadrig Hillfort, Inverness: results of the emergency archaeological evaluation', *Proc Soc Antiq Scot* 148: 61–81.
- Piperno, D R & Dillehay, T D 2008 'Starch grains on human teeth reveal early broad crop diet in northern Peru', *Proceedings of the National Academy of Sciences of the United States of America* 105: 19622–7.
- Poller, T & MacIver, C 2014 'Castle Law Excavations 2014 Data Structure Report', project report, SERF Project, University of Glasgow.
- Pope, R 2007 'Ritual and the roundhouse: a critique of recent ideas on domestic space in later British prehistory', in Haselgrove, C C & Pope, R E (eds) *The Earlier Iron Age in Britain and the Near Continent*, 204–28. Oxford: Oxbow.
- Prado, S 2023 'Peat, Heath, and Cereal: Investigating Contributions of Nonhuman Communities to the Poiesis of Pictland through Microbotanical and Microalgae Residues', unpublished PhD thesis, McMaster University.
- Prado, S & Noble, G 2022 'A hut on the hill: a multi-proxy microbotanical and micro-algae approach to a Pictish roundhouse floor at Cairnmore, Aberdeenshire', *Journal of Archaeological Science: Reports* 46: 103652.
- Price, E 2000 *Procester, A Romano-British Settlement, its Antecedents and Successors. Vol. 2, The Finds*. Gloucester and District Archaeological Research Group.
- QGIS Development Team 2024 'QGIS Geographic Information System. v.3.22.16–Białowieża'. <http://www.qgis.org/>
- Quast, D 2008 'Der Runde Berg bei Urach. Die alamannische Besiedlung im 4. und 5. Jahrhundert', in Steuer, H & Bierbrauer, V (eds) *Höhensiedlungen zwischen Antike und Mittelalter von den Ardennen bis zur Adria*, 261–322. Berlin: De Gruyter.
- Radford, R 1935 'Tintagel: the Castle and Celtic Monastery', *Antiquaries Journal* 15: 401–19.
- Rae, A & Rae, V 1955 'A bowl barrow at Pityoulish, in Strathspey', *Proc Soc Antiq Scot* 87: 153–60.
- Ralston, I B M 1979 'The Iron Age: northern Britain', in Megaw, J V S & Simpson, D D A (eds) *Introduction to British Prehistory*, 446–99. Leicester: Leicester University Press.
- Ralston, I B M 1980 'The Green Castle and the promontory forts of north-east Scotland', *Scottish Archaeological Forum* 10: 27–40.
- Ralston, I B M 1983 'Later prehistoric settlements in North-East Scotland: a preliminary assessment', in Chapman, J C & Mytum, H C (eds) *Settlement in North Britain 1000 BC–AD 1000* British Archaeological Report British Series 118, 149–73. Oxford: BAR.
- Ralston, I B M 1986 'The Yorkshire Television vitrified wall experiment at East Tullos, City of Aberdeen district', *Proc Soc Antiq Scot* 116: 17–40.
- Ralston, I B M 1987 'Portknockie: promontory forts and Pictish settlement in the north-east', in Small, A (ed) *The Picts: A New Look at Old Problems*, 15–26. Dundee: University of Dundee.
- Ralston, I B M 1997 'Pictish homes', in Henry, D (ed) *The Worm, the Germ and the Thorn: Pictish and Related Studies Presented to Isabel Henderson*, 18–34. Balneaves: The Pinkfoot Press.
- Ralston, I B M 2004 *The Hill-forts of Pictland Since the Problem of the Picts*. Rosemarkie: Groam House Museum.
- Ralston, I 2006 *Celtic Fortifications*. Stroud: History Press.
- Ralston, I 2015 'The hillforts and enclosed settlement of Scotland: an overview', in Hunter, F & Ralston, I B M (eds) *Scotland in Later Prehistoric Europe*, 201–10. Edinburgh: Society of Antiquaries of Scotland.
- Ralston, I 2019 'Going back in time: re-assessment of the timber halls at Doon Hill, Dunbar', *Transactions of the East Lothian Antiquarian and Natural History Society* 32: 4–27.

- Ralston, I B M & Inglis, J 1984 *Foul Hordes: The Picts in the North-East and Their Background*. Aberdeen: University of Aberdeen Anthropological Museum.
- Ralston, I & Watt, W 1981 'Tap o' Noth (Rhynie): hut platforms', *Discovery Excavation Scotland 1981*: 14.
- Ralston, I & Watt, W 1982 'Tap o' Noth (Rhynie): platforms', *Discovery Excavation Scotland 1982*: 12.
- Ralston, I & Watt, W 1983 'Tap o' Noth (Rhynie): platforms', *Discovery Excavation Scotland 1983*: 10.
- Ramsay, S 2018a 'Burghead 2018a botanical report', unpublished report, University of Aberdeen.
- Ramsay, S 2018b 'Burghead 2018b botanical report', unpublished report, University of Aberdeen.
- Ramsay, S 2018c 'Tap O' Noth, Rhynie, Aberdeenshire: Archaeobotanical report', unpublished report, University of Aberdeen.
- Ramsay, S 2019a 'Burghead 2019 botanical report', unpublished report, University of Aberdeen.
- Ramsay, S 2019b 'Cairn More 2018-2019 botanical report', unpublished report, University of Aberdeen.
- Ramsay, S, 2019c, 'Rhynie 2012, 2015, 2016 and 2017 botanical report', unpublished report, University of Aberdeen.
- Ramsay, S 2019d 'Tap O' Noth, Rhynie, Aberdeenshire 2019 season: archaeobotanical report', unpublished report, University of Aberdeen.
- Rathbone, S 2013 'A consideration of villages in Neolithic and Bronze Age Britain and Ireland', *Proceedings of the Prehistoric Society* 79: 39–60.
- RCAHMS 1956 *An Inventory of the Ancient and Historical Monuments of Roxburghshire Vol. I*. Edinburgh: RCAHMS.
- RCAHMS 1990 *North-East Perth: An Archaeological Landscape*. Edinburgh: RCAHMS.
- RCAHMS 2007 *In the Shadow of Bennachie: A Field Archaeology of Don-side, Aberdeenshire*. Edinburgh: RCAHMS.
- RCAHMS 2008 *The Pictish Symbol Stones of Scotland*. Edinburgh: RCAHMS.
- RCAHMS 2014 *Craig Phadrig, Inverness: Survey and Review*. Edinburgh: RCAHMS.
- Ree, S (ed) 1907 Iohannes Ferrarius, *Historiae Compendium*, in Bulloch, J M (ed) *The House of Gordon*, vol 2, 3–32. Aberdeen: The New Spalding Club.
- Reimer, P J, Austin, W E N, Bard E, et al 2020 'The IntCal20 Northern Hemisphere Radiocarbon Age Calibration Curve (0–55 cal kBP)', *Radiocarbon* 62(4):725–57. doi:10.1017/RDC.2020.41
- Reynolds, N 1980 'Dark Age timber halls and the background to excavation at Balbridae', *Scottish Archaeological Forum* 10: 55–9.
- RHP260/1 'Plan of the lands of Forbes comprehending the parish of Kearn, c.1771'. NRS courtesy of Lord Forbes.
- RHP2254 1776 'Plan of part of the Lordship of Huntly lying in the Parishes of Rhynie, Essie and Gartly in the County of Aberdeen, The Property of His Grace the Duke of Gordon, Surveyed Anno 1776 By Thomas Milne'.
- RHP2256 1776 'Plan of the lands of Essie and Lesmoir'.
- Richards M P 2020 'Isotope analysis for diet studies', in Britton K & Richards M P (eds) *Archaeological Science: An Introduction*, 125–44. Cambridge: Cambridge University Press.
- Richmond, I 1980 'A Roman fort at Inveresk, Midlothian', *Proc Soc Antiq Scot* 110: 286–304.
- Riisøy, A I 2013 'Sacred legal places in Eddic poetry: reflected in real life?', *Journal of the North Atlantic Special Volume 5: Debating the Thing in the North I: Selected Papers from Workshops Organized by The Assembly Project*: 28–41.
- Riley, J A 1979 'The coarse pottery from Berenice', in Lloyd, J A (ed) *Excavations at Sidi Khrebish Benghazi (Berenice), Supplements to Libya Antiqua, Vol 2*, 91–467. Tripoli: Department of Antiquities.
- Riley, J A, Sidebotham, S, Hamroush, H A & Barakat, H N 1989 'Fieldwork on the Red Sea Coast: the 1987 season', *Journal American Research Centre in Egypt* 26: 127–66.
- Ringtved, J 1999 'The geography of power: south Scandinavia before the Danish kingdom', in Dickinson, T M & Griffiths, D (eds) *The Making of Kingdoms*, Anglo-Saxon Studies in Archaeology and History 10. Oxford: Oxford University Press.
- Ritchie, A 1977 'Excavation of Pictish and Viking-age farmsteads at Buckquoy, Orkney', *Proc Soc Antiq Scot* 108: 174–227.
- Ritchie, A 1989 *Picts*. Edinburgh: HMSO.
- Ritchie, A 2011 'Cemeteries of platform cairns and long cists around Sinclair's Bay, Caithness', *Proc Soc Antiq Scot* 141: 125–43.
- Ritchie, M (ed) 2018 *The Archaeology of Dun Deardail*. Edinburgh: Forestry Commission Scotland.
- Rivet, A L F & Smith, C 1979 *The Place-Names of Roman Britain*. London: Batsford.
- RMS = Thomson, J M, Paul, J B, Stevenson, J H and Dickson, W K (eds) 1882–1914 *Registrum Magni Sigilli Regum Scotorum*, 11 vols. Edinburgh: H.M. General Register House.
- Roberts, B K & Barnwell, P S 2011 'The multiple estate of Glanville Jones: epitome, critique, and context', in Barnwell, P S & Roberts, B K (eds) *Britons, Saxons, and Scandinavians. The Historical Geography of Glanville R.J. Jones*, 25–128. Turnhout: Brepols.
- Robertson, A S 1970 'Roman finds from non-Roman sites in Scotland: more Roman 'drift' in Caledonia', *Britannia* 1: 198–226.
- Robertson, J 1822 Topographical and military map of the counties of Aberdeen, Banff and Kincardine (London: s.n.). <https://maps.nls.uk/joins/570.html>. Accessed 12 March 2024.
- Rogers, J M 1997 'The formation of parishes in twelfth-century Perthshire', *Records of Scottish Church History Society* 27: 68–96.
- Rogers, N 2009 'The pins', in Evans, D H & Loveluck, C (eds) *Excavations at Flixborough, Vol. 2: Life and Economy at Early Medieval Flixborough, c. AD600-1000. The Artefact Evidence*, 32–79. Oxford: Oxbow.
- Rolfe, J C (ed. and trans.) 1935–9 *Ammianus Marcellinus*, 3 vols. London: William Heinemann.
- Ross, A 1996 'Pottery', in Ballin Smith, B (ed) *Howe: Four Millennia of Orkney Prehistory, Excavations 1978-82*, 236–57. Edinburgh: Society of Antiquaries of Scotland.
- Ross, A 2003 'The province of Moray, c.1000–1230', unpublished PhD thesis, University of Aberdeen.
- Ross, A 2006 'The Bannatyne Club and the publication of Scottish ecclesiastical cartularies', *Scottish Historical Review* 85(2): 202–33.
- Ross, A 2011 *The Kings of Alba c. 1000 – c. 1130*. Edinburgh: John Donald.
- Ross, A 2013 'Two surveys of vernacular buildings and tree usage in the lordship of Strathavon, Banffshire, 1588x1612', *Miscellany of the Scottish History Society* 14, 1–60.
- Ross, A 2015 *Land Assessment and Lordship in Medieval Northern Scotland*. Turnhout: Brepols.
- Ross, S 1991 'Dress Pins from Anglo-Saxon England: their Production and Typo-chronological Development', unpublished PhD thesis, University of Oxford.
- Roy, W 1747–55 *Military Survey of Scotland*. <https://maps.nls.uk/roy/>. Accessed 29 March 2024.

BIBLIOGRAPHY

- RRS Handlist/Alexander III = Simpson, G G 1960 *Handlist of the Acts of Alexander III, The Guardians and John (1249-1296)*, Regesta Regum Scottorum. Edinburgh: Department of Scottish History, University of Edinburgh.
- Russell, M 2000 *Flint Mines in Neolithic Britain*. Stroud: Tempus.
- Russell, N 2012 *Social Zooarchaeology: Humans and Animals in Prehistory*. Cambridge: Cambridge University Press.
- Sahlén, D 2009 'Working with clay', in The Moray Society/Elgin Museum (eds) *Beakers, Bones and Birnie: Proceedings of the Moray Society Annual Conference*, 28–38. Elgin: The Moray Society/Elgin Museum.
- Sahlén, D 2013 'Selected with care? – the technology of crucibles in late prehistoric Scotland. A petrographic and chemical assessment', *Journal of Archaeological Science* 40: 4207–21.
- Sahlén, D 2020 'Petrographic report on pottery from Sculptor's Cave', in Armit, I and Büster, L (eds) *Darkness Visible: The Sculptor's Cave, Covesea, from the Bronze Age to the Picts*, 97–98. Edinburgh: Society of Antiquaries of Scotland.
- Samson, R 1992 'The reinterpretation of the Pictish symbols', *Journal of the British Archaeological Association* 145: 29–65.
- Sanderson, D, Placido, F & Tate, J 1988 'Scottish vitrified forts: TL results from six study sites', *Nuclear Tracks and Radiation Measurements* 14(1–2): 307–16.
- Sanmark, A 2009 'Administrative organisation and state formation: a case study of assembly sites in Södemanland, Sweden', *Medieval Archaeology* 53: 205–41.
- Sawyer, P H 1983 'The royal tūin in pre-Conquest England', in Wormald, P, Bullough, D & Collins, R (eds) *Ideal and Reality in Frankish and Anglo-Saxon Society: Studies Presented to J M Wallace-Hadrill*, 273–99. Oxford: Blackwell.
- ScARF 2012 = Price, N and Hall, M (eds) *Medieval National Research Framework* <https://scarf.scot/national/medieval/>.
- Schacter, D L (ed) 1995 *Memory distortions: How minds, brains, and societies reconstruct the past*. Cambridge: Harvard University Press.
- Schmidt, E 1972 *Atlas of Animal Bones for Prehistorians, Archaeologists and Quaternary Geologists*. Amsterdam: Elsevier Science Publishers.
- Schødt, P J 2003 'War, state and society', in Jørgensen, L, Storgaard, B & Gebauer Thomsen, L (eds) *The Spoils of Victory – the North in the Shadow of the Roman Empire*, 90–102. Copenhagen: Nationalmuseet.
- Schoeninger, M J & DeNiro, M J 1984 'Nitrogen and carbon isotopic composition of bone collagen from marine and terrestrial animals', *Geochimica et Cosmochimica Acta* 48: 625–39.
- Schoeninger, M J, DeNiro, M J & Tauber, H 1983 'Stable nitrogen isotope ratios of bone collagen reflect marine and terrestrial components of prehistoric human diet', *Science* 220: 1381–3.
- Schot, R, Newman, C & Bhreathnach, E 2011 *Landscapes of Cult and Kingship*. Dublin: Four Courts Press.
- Schweingruber, F H 1990 *Anatomy of European Woods: An Atlas for the Identification of European Trees, Shrubs and Dwarf Shrubs*. Haupt: Berne & Stuttgart.
- Scott, B G 1990 *Early Irish Ironworking*. Belfast: Ulster Museum.
- Scott, I G & Ritchie, A 2009 *Pictish and Viking Age Carvings from Shetland*. Edinburgh: RCAHMS.
- Scull, C 1993 'Archaeology, early Anglo-Saxon society and the origins of Anglo-Saxon kingdoms', *Anglo-Saxon Studies in Archaeology and History* 6: 65–82.
- Scull, C 1999 'Social archaeology and Anglo-Saxon kingdom origins', *Anglo-Saxon Studies in Archaeology and History* 10: 17–24.
- Scull, C & Thomas, G 2020 'Early medieval great hall complexes in England: temporality and site biographies', *Anglo-Saxon Studies in Archaeology and History* 22: 50–67.
- Scull, C, Brookes, S and Williamson, T 2024 *Lordship and Landscape in East Anglia AD 400-800: The Royal Centre at Rendlesham, Suffolk, and its contexts*. London: Society of Antiquaries of London Research Report No. 84.
- Scull, C, Minter, F & Plouviez, J 2016 'Social and economic complexity in early medieval England: a central place complex of the East Anglian kingdom at Rendlesham, Suffolk', *Antiquity* 90: 1594–612.
- Seaman, A 2012 'The multiple estate model re-considered: power and territory in early medieval Wales', *Welsh History Review* 26(2): 163–85.
- Seaman, A 2013 'Dinas Powys in context: settlement and society in post-Roman Wales', *Studia Celtica* 47: 1–23.
- Seaman, A 2016 'Defended settlement in early medieval Wales: problems of presence, absence and interpretation', in Christie, N & Herold, H (eds) *Fortified Settlements in Early Medieval Europe: Defended Communities of the 8th-10th Centuries*, 37–50. Oxford: Oxbow.
- Seaman, A 2023 'Hillforts in southern Britain: power and place in the Late Antique landscape', in Pergola, P, Castiglia, G, Hanna, E, Martinetto, I & Segura, J-A (eds) *Perchement et Réalités Fortifiées en Méditerranée et en Europe, Vème-Xème Siècles*, 420–32. Oxford: Archaeopress.
- Seaman, A & Sucharyna Thomas, L 2020 'Hillforts and power in the British post-Roman west: a GIS analysis of Dinas Powys', *European Journal of Archaeology* 23(4): 547–66.
- Sebire, M 2013 'Seaweed, swords and smoke. Assessing the practical significance of seaweed in a metalworking context during the Viking Age', unpublished MA dissertation, University of Aberdeen.
- Semple, S 2013 *Perceptions of the Prehistoric in Anglo-Saxon England*. Oxford: Oxford University Press.
- Semple, S & Sanmark, A 2013 'Assembly in north west Europe: collective concerns for early societies?', *Journal of European Archaeology* 16(3): 518–42.
- Semple, S, Buchanan, B, Harrington, S, Oliver, D & Petts, D 2017 'Power at the edge: Yeavinger, Northumberland, England', in Semple, S, Orsini, C & Mui, S (eds) *Life on the Edge: Social, Political and Religious Frontiers in Early Medieval Europe*, 91–112. Braunschweig: Braunschweigisches Landesmuseum.
- Semple, S, Sanmark, A, Iversen, F, & Mehler, N 2020 *Negotiating the North. Meeting-Places in the Middle Ages in the North Sea Zone*. London: Routledge.
- Seyfarth, W, Jacob-Karau, L & Ulmann, I (eds) 1978 *Ammiani Marcellini. Rerum gestarum libri qui supersunt*, 2 vols (I. Books XIV-XXV; II. Books XXVI-XXXI). Stuttgart and Leipzig: B.G. Teubner.
- Shackleton, C & Prins, F 1992 'Charcoal analysis and the "Principle of least effort" – a conceptual model', *Journal of Archaeological Science* 19(6): 631–7.
- Sharpe, R (trans) 1995 *Adomnán of Iona. Life of St Columba*. Harmondsworth: Penguin.
- Shepherd, C 2018 'A 12th-century 'bowl-fired' grain-drying kiln at Druminnor Castle, Aberdeenshire. Implications for social change, agricultural productivity and landscape development in north-east Scotland', *Studia Celtica* 52: 1–52.
- Shepherd, C 2021 *The Late Medieval Landscape of North-East Scotland. Renaissance, Reformation and Revolution*. Oxford: Windgather Press.
- Shepherd, I A G 1983 'Pictish settlement problems in NE Scotland', in Chapman, J C and Mytum, H C (eds) *Settlement in North Britain*,

- 1000BC-AD1000. BAR British Series 118, 327–56. Oxford: British Archaeological Reports.
- Shepherd, I A G 1986 *Exploring Scotland's Heritage: Grampian*. Exploring Scotland's Heritage Series. Edinburgh: RCAHMS.
- Shepherd, I A G 1996 *Exploring Scotland's Heritage: Aberdeen and North-East Scotland*, 2nd ed. Exploring Scotland's Heritage Series. Edinburgh: RCAHMS.
- Shepherd, I A G 2006 *Aberdeenshire, Donside and Strathbogie: An Illustrated Architectural Guide*. Edinburgh: The Royal Incorporation of Architects in Scotland.
- Shepherd, I A G & Greig, M K 1996 *Grampian's Past: Its Archaeology from the Air*. Aberdeen: Aberdeenshire Council.
- Shepherd, I A G & Shepherd, A N 1980 'An incised Pictish figure and a new symbol stone from Barflat, Rhynie, Gordon District', *Proc Soc Antiq Scot* 109: 211–22.
- Shepherd, I A G & Shepherd, A N 2001 'A Cordoned Urn burial with faience from 102 Findhorn, Moray', *Proc Soc Antiq Scot* 131: 101–28.
- Sheridan, A, Eremin, K and Shortland, A 2004 *Understanding Bronze Age Faience in Britain and Ireland*. Materials Research Society Symposium Proceedings.
- Sheridan, J A 2021 'Bronze Age beads', in Needham, S & Anelay, G *Barrows at the Core of Bronze Age Communities: Petersfield Heath excavations 2014–18 in their regional context*, 359–64. Leiden: Sidestone Press.
- Sheridan, J A 2022 'Assessment report on the faience quoit bead from Kingsgate (Boscombe Down Phase 4 mitigation), grave 63263, context 63262, SF15313', Unpublished specialist report for Wessex Archaeology.
- Sidebotham, S E, Riley, J A, Hamroush, H A & Barakat H 1989 'Fieldwork on the Red Sea coast: the 1987 season', *Journal American Research Centre in Egypt* 26: 127–66.
- Siegmund, F 1995 'Merovingian beads on the Lower Rhine', *BEADS: Journal of the Society of Bead Researchers* 7: 37–53.
- Silver, I A 1969 'The Ageing of Domestic Animals', in Brothwell, D R, Higgs, E S, & Clark, G (eds), *Science in Archaeology: A Survey of Progress and Research*, 283–302. New York: Basic Books, Inc., Publishers.
- Simms, K 2020 *Gaelic Ulster in the Middle Ages: History, Culture and Society*. Trinity Medieval Ireland Series 4. Dublin: Four Courts Press.
- Simpson, W D 1922 'The architectural history of Huntly Castle', *Proc Soc Antiq Scot* 56: 134–63.
- Simpson, W D 1929 'The early castles of Mar', *Proc Soc Antiq Scot* 63: 102–39.
- Simpson, W D 1930 'Craig Castle and the Kirk of Auchindoir', *Proc Soc Antiq Scot* 64: 48–96.
- Simpson, W D 1932 'Lesmoir Castle and the Church of Essie: with some further notes on Auchindoir', *Proc Soc Antiq Scot* 66: 86–101.
- Sjöblom, R, Hjärthner-Holdar, E, Pearce, C I, Weaver, J L, Ogenhall, E, McCloy, J S, Marcial, J, Vicenzi, E P, Schweiger, M J & Kruger, A A 2022 'Assessment of the reason for the vitrification of a wall at a hillfort. The example of Broborg in Sweden', *Journal of Archaeological Science: Reports* 43: 1–12.
- Skre, D 2010 'Centrality and places: the central place Skiringssal in Vestfold, Norway', in Ludowici, B (ed) *Trade and Communication Networks of the First Millennium AD in the northern part of Central Europe*, 220–31. Stuttgart: Konrad Theiss Verlag.
- Skre, D (ed) 2020 *Rulership in 1st to 14th Century Scandinavia. Royal Graves and Sites at Avaldsnes and Beyond*. Berlin: De Gruyter.
- Skre, D 2025 *The Northern Routes to Kingship: A History of Scandinavia AD 180–550*. London: Routledge.
- Small, A 1969 'Burghead', *Scottish Archaeological Forum* 1: 61–9.
- Small, A & Cottam, M B 1972 *Craig Phadraig: interim report on 1971 excavations*. Dundee: University of Dundee.
- Smith, A 1995 'The excavation of Neolithic, Bronze Age and Early Historic features near Ratho, Edinburgh', *Proc Soc Antiq Scot* 125: 69–138.
- Smith, C 2000 'A Grumphie in the Sty: An Archaeological of Pigs in Scotland, from Their Earliest Domestication to the Agricultural Revolution', *Proc Soc Antiq Scot* 130: 705–24.
- Smith, D & Kenward, H 2011 'Roman grain pests in Britain: implications for grain supply and agricultural production', *Britannia* 42: 243–62.
- Smith, I M 1991 'Sprouston, Roxburghshire: an early Anglian centre of the eastern Tweed Basin', *Proc Soc Antiq Scot* 121: 261–94.
- Soil Map of Scotland http://map.environment.gov.scot/Soil_maps/?layer=1. Accessed 29 October 2018.
- Spall, C 2016 'The moulds', in Carver, M, Garner-Lahire, J & Spall, C (eds) *Portmahomack on Tarbat Ness: Changing Ideologies in North-east Scotland, Sixth to Sixteenth Century AD*, 96–8. Edinburgh: Society of Antiquaries of Scotland.
- Spearman, R M 1997 'The smithy and metalworking debris from Mills Mount', in Driscoll, S T & Yeoman, P A (eds) *Excavations within Edinburgh Castle in 1988-91*, 164–8. Edinburgh: Society of Antiquaries of Scotland.
- Sproat, R 2010 'Ancient symbols, computational linguistics, and the reviewing practices of the general science journals', *Computational Linguistics* 36(3): 585–94.
- Stace, C A 1997 *New Flora of the British Isles*, 2nd ed. Cambridge: Cambridge University Press.
- Stace, C A 2019 *New Flora of the British Isles*, 4th ed. Cambridge: Cambridge University Press.
- St A. Lib. = 1841 *Liber Cartarum Prioratus Sancti Andree in Scotia*. Edinburgh: Bannatyne Club.
- Stevenson, R B K 1955a 'Pictish art', in Wainwright, F T (ed) *The Problem of the Picts*, 97–128. Edinburgh: Nelson; reprinted 1980, Perth: The Melven Press.
- Stevenson, R B K 1955b 'Pins and the chronology of brochs', *The Prehistoric Society* 26: 282–94.
- Stevenson, R B K 1967 'A Roman period cache of charms in Aberdeenshire', *Antiquity* 41: 143–5.
- Stevenson, R B K & Emery, J 1964 'The Gaulcross hoard of Pictish silver', *Proc Soc Antiq Scot* 97: 206–11.
- Stewart, A 1890 'Examples of the survival in Scotland of superstitions relating to fire', *Proc Soc Antiq Scot* 24: 391–5.
- Stewart, J 1987 *Shetland Place-Names*. Lerwick: Shetland Library and Museum.
- Stiner, M C, Kuhn, S L, Weiner, S & Bar-Yosef, O 1995 'Differential burning, recrystallization, and fragmentation of archaeological bone', *Journal of Archaeological Science* 15: 223–37.
- Stirling, L & Cruickshanks, G forthcoming 'Early medieval iron production at Glenlee, Dumfries and Galloway', *Proc Soc Antiq Scot*.
- Storgaard, B 2003 'Cosmopolitan Aristocrats', in Jørgensen, L, Storgaard, B, & Gebauer Thomsen, L (eds) *The Spoils of Victory – The North in the Shadow of the Roman Empire*, 106–25. Copenhagen: Nationalmuseet.
- Storli, I 2010 'Court sites of arctic Norway: remains of thing sites and representations of political consolidation processes in the northern

BIBLIOGRAPHY

- Germanic world during the first millennium ad', *Norwegian Archaeological Review* 43(2): 128–44.
- Stout, M 1997 *The Irish Ringfort*. Dublin: Four Courts Press.
- Stout, M 2017 *Early Medieval Ireland 431-1169*. Dublin: Wordwell.
- Strachan, D 2013 *Excavations at the Black Spout, Pitlochry: And the Iron Age Monumental Roundhouses of North West Perthshire*. Perth: Perth and Kinross Heritage Trust.
- Strachan, D, Cook, M, & McLaren, D 2023 *Three Forts on the Tay: Excavations at Moncreiffe, Moredun and Abernethy, Perth and Kinross 2014–17*. Bicester: Archaeopress.
- Strachan, D, Sneddon, D & Tipping, R 2019 *Early Medieval Settlement in Upland Perthshire: Excavations at Lair, Glen Shee, 2012–17*. Oxford: Archaeopress.
- Strang, A 1997 'Explaining Ptolemy's Roman Britain', *Britannia* 28: 1–30.
- Stringer, K J 1985 *Earl David of Huntingdon 1152–1219*. Edinburgh: Edinburgh University Press.
- Stuart, J 1856 *Sculptured Stones of Scotland*, vol. 1. Aberdeen: Spalding Club.
- Stuart, J 1867 *Sculptured Stones of Scotland*, vol. 2. Aberdeen: Spalding Club.
- Stuiver, M & Polach, H A 1977 'Reporting of 14C data', *Radiocarbon* 19(3): 355–63.
- Stuiver, M, & Reimer, P J 1986 'A Computer Program for Radiocarbon Age Calibration', *Radiocarbon* 28(2B): 1022–30. doi:10.1017/S0033822200060276
- Stuiver, M, & Reimer, P J 1993 'Extended 14C Data Base and Revised CALIB 3.0 14C Calibration Program', *Radiocarbon* 35(1): 215–30. doi:10.1017/S0033822200013904.
- Svensson, M 2002 'Palisade enclosures: the second generation of enclosed sites in the Neolithic of northern Europe', in Gibson, A (ed) *Behind Wooden Walls: Neolithic Palisaded Enclosures in Europe*, 28–58. Oxford: British Archaeological Reports.
- Tambiah, S J 1979 'A performative approach to ritual', *Proceedings of the British Academy* 65: 113–69.
- Tate, G 1863 'The antiquities of Yevering Bell and Three Stone Burn, among the Cheviots in Northumberland, with an account of excavations made into Celtic forts, hut dwellings, barrows and stone circles', *History of the Berwickshire Naturalists' Club* 1856–62: 431–53.
- Taylor, A 2016 *The Shape of the State in Medieval Scotland, 1124-1290*. Oxford: Oxford University Press.
- Taylor, D B 1958. *Archaeology of Tayside*. Dundee: Dundee Museum and Art Gallery.
- Taylor, D B 1990 *Circular Homesteads in North West Perthshire*. Dundee: Stevenson: Dundee.
- Taylor, S 2011 'Pictish place-names revisited', in Driscoll, S T, Geddes, J & Hall, M A (eds), *Pictish Progress. New Studies on Northern Britain in the Early Middle Ages*, 67–120. Leiden: Brill.
- Taylor, S 2014 'The medieval parish in Scotland', *Journal of Scottish Name Studies* 8: 93–114.
- Taylor, S forthcoming *Fortrose, Fortriu and the Place-Names of Northern Pictland*.
- Taylor, S & Márkus, G 2006 *The Place-Names of Fife*, vol 1. Donington: Shaun Tyas.
- Taylor, S & Márkus, G 2009 *The Place-Names of Fife*, vol 3. Donington: Shaun Tyas.
- Taylor, S & Márkus, G 2010 *The Place-Names of Fife*, vol 4. Donington: Shaun Tyas.
- Taylor, S & Márkus, G 2012 *The Place-Names of Fife*, vol 5. Donington: Shaun Tyas.
- Taylor, S, Clancy, T O, McNiven, P & Williamson, E 2020 *The Place-Names of Clackmannanshire*. Donington: Shaun Tyas.
- Teather, A 2015 'The first British Neolithic representational art? The chalk engravings at Cissbury flint mine', *Antiquity Project Gallery* 89(347) <https://www.antiquity.ac.uk/projgall/teather347>.
- Théry-Parisot, I 2001 *Economie des Combustibles au Paléolithique*. Paris: C.N.R.S.
- Théry-Parisot, I & Henry, A 2012 'Seasoned or green? Radial cracks analysis as a method for identifying the use of green wood as fuel in archaeological charcoal', *Journal of Archaeological Science* 39(2): 381–8.
- Thomas, C 1963 'The interpretation of the Pictish symbols', *The Archaeological Journal* 120: 31–64.
- Thomas, A C 1982 'East and west: Tintagel, Mediterranean imports and the early insular church', in Pearce, S M (ed) *The Early Church in Western Britain and Ireland: Studies Presented to C A Raleigh Radford*, 17–34. Oxford: British Archaeological Reports.
- Thomas, G 2013 'Life before the minister: the social dynamics of monastic foundation at Anglo-Saxon Lyminge, Kent', *Antiquaries Journal* 93: 109–45.
- Thomas, G 2018 'Mead-halls of the Oiscingas: a new Kentish perspective on the Anglo-Saxon great hall complex phenomenon', *Medieval Archaeology* 62(2): 262–303.
- Thornton, B, Martin, G, Procee, M, Miller, D R, Coull, M, Yao, H, Chapman, S J, Hudson, G & Midwood, A J 2015 'Distributions of carbon and nitrogen isotopes in Scotland's topsoil: a national-scale study', *European Journal of Soil Science* 66(6): 1002–11.
- Tomber, R & Dore, J N 1998 *The National Roman Fabric Reference Collection: A Handbook*. London: Museum of London Archaeology Service.
- Toner, G 2000 'Settlement and settlement terms in medieval Ireland: ráth and lios', *Ainm* 8: 1–40.
- Toolis, R & Bowles, C 2017 *The Lost Dark Age Kingdom of Rheged: The Discovery of a Royal Stronghold at Trusty's Hill, Galloway*. Oxford: Oxbow Books.
- Torrence, R & Barton, H (eds) 2006 *Ancient Starch Research*. Walnut Creek: Left Coast Press.
- Trench-Jellicoe, R 2005 'A richly decorated cross-slab from Kilduncan House, Fife: description and analysis', *Proc Soc Antiq Scot* 135: 505–59.
- Turner, V 1994 'The Mail Stone: an incised Pictish figure from mail, Cunningsburgh, Shetland', *Proc Soc Antiq Scot* 124: 315–25.
- Tütken, T, Vennemann, T W, Janz, H & Heizmann, H E P 2006 'Palaeo-environment and palaeoclimate of the Middle Miocene lake in the Steinheim basin, SW Germany, a reconstruction from C, O, and Sr isotopes of fossil remains', *Palaeogeography, Palaeoclimatology, Palaeoecology* 241: 457–91.
- Twiss, K C 1992 'Predicted world distribution of C3 and C4 grass phytoliths', in Rapp, G R & Mulholland, S C (eds) *Phytolith Systematics: Emerging Issues, Advances in Archaeological and Museum Science*, 113–28. New York: Plenum Press.
- Tyers, P 1996 *Roman Pottery in Britain*. London: Batsford.
- Tylecote, R F 1986 *The Prehistory of Metallurgy in the British Isles*. London: The Institute of Metals.
- Tytler, F 1790 'An account of some extraordinary structures on the tops of hills in the Highlands; with remarks on the progress of the arts among the ancient inhabitants of Scotland', *Transactions of the Royal Society of Edinburgh* 2: 3–32.

- Ulmschneider, K 2011 'Settlement hierarchy', in Hamerow, H, Hinton, D A & Crawford, S (eds) *The Oxford Handbook of Anglo-Saxon Archaeology*, 156–71. Oxford: Oxford University Press.
- University of Aberdeen nd 'Gaelic in the North East', The School of Language, Literature, Music and Visual Culture. <https://www.abdn.ac.uk/sll/disciplines/gaelic/gaelic-in-the-north-east-325.php#>. Accessed 10 October 2023.
- Valdez-Tullett, J, Barnett, T, Robin, G & Jeffrey, S 2023 'Revealing the earliest animal engravings in Scotland: the Dunchraigaig Deer, Kilmartin', *Cambridge Archaeological Journal* 33(2): 281–307.
- van Amerongen, Y F 2020 'All's well? Comparing on and off site pollen samples and exploring the potential of pollen from man made contexts', *Vegetation History and Archaeobotany* 29: 125–31.
- Van Der Weil, A M 1983 'A palaeoecological study of a section from the foot of the Hazendonk (Zuid-Holland, The Netherlands), based on the analysis of pollen, spores and macroscopic plant remains', *Review of Palaeobotany and Palynology* 38(1–2): 35–59, 69–90.
- Van Geel, B 1976 'A palaeoecological study of Holocene peat bog sections based on the analysis of pollen, spores and macro- and microscopic remains of fungi, algae, cormophytes and animals'. Academisch proefschrift. Huego de Vries laboratorium. Universiteit van Amsterdam.
- Van Geel, B 1978 'A palaeoecological study of Holocene peat bog sections in Germany and the Netherlands, based on the analysis of pollen, spores and macro- and microscopic remains of fungi, algae, cormophytes and animals', *Review of Palaeobotany and Palynology* 25(1): 1–120.
- Van Geel, B, Bohncke, S J P & Dee, H 1981 'A palaeoecological study of an upper Late Glacial and Holocene sequence from "De Borchert"', The Netherlands', *Review of Palaeobotany and Palynology* 31: 367–448.
- Van Geel, B, Hallewas, D P & Pals, J P 1983 'A Late Holocene deposit under the Westfriesse Zeedijk near Enkhuizen (Prov. Of N-Holland, the Netherlands): palaeoecological and archaeological aspects', *Review of Palaeobotany and Palynology* 38: 269–335.
- Van Geel, B, Klink, A G, Pals, J P & Wiegers, J 1986 'An upper Eemian lake deposit from Twente, eastern Netherlands', *Review of Palaeobotany and Palynology* 47: 31–61.
- Van Geel, B, Buurman, J, Brinkkemper, O, Schelvis, J, Aptroot, A, van Reenen, G B A & Hakbijl, T 2003 'Environmental reconstruction of a Roman period settlement site in Uitgeest (The Netherlands), with special reference to coprophilous fungi', *Journal of Archaeological Science* 30: 873–83.
- van Hoek, M & Smith, C 1988 'Rock carvings at Goatscrag Shelters, Northumberland', *Archaeologia Aeliana* 5th series 16: 29–35.
- Van Hoof, J & Van Dijken, F 2008 'The historical turf farms of Iceland: architecture, building technology and the indoor environment', *Building and Environment* 43: 1023–30.
- van Klinken, G J 1999 'Bone collagen quality indicators for palaeo-dietary and radiocarbon measurements', *Journal of Archaeological Science* 26: 687–95.
- van Tongeren, T 2023 *Buried in the Borderlands: An Artefact Typology and Chronology for the Netherlands in the Early Medieval Period on the Basis of Funerary Archaeology*. Oxford: Archaeopress.
- Wace, A J B & Jehu, P 1915 'Cave excavations in East Fife'. *Proc Soc Antiq Scot* 49: 233–55.
- Waddell, J 1998 *The Prehistoric Archaeology of Ireland*. Dublin: Wordwell.
- Wainwright, F T (ed) 1955 (1980 reprint) *The Problem of the Picts*. Perth: The Melven Press.
- Walker, P L 2005 'Greater sciatic notch morphology: sex, age, and population differences', *American Journal of Physical Anthropology: The Official Publication of the American Association of Physical Anthropologists* 127(4): 385–91.
- Walrath, D E, Turner, P & Bruzek, J 2004 'Reliability test of the visual assessment of cranial traits for sex determination', *American Journal of Physical Anthropology: The Official Publication of the American Association of Physical Anthropologists* 125(2): 132–7.
- Walter, M 2016 'Les sites de hauteur du massif Vosgien: actualisation des données et modalités d'implantation (Néolithique récent – X^e siècle)', *Archimède* 3: 20–36.
- Walther, L J 2017 'All Out of Proportion? Stature and Body Proportions in Roman and Early Medieval England', unpublished PhD thesis, Durham University.
- Walton-Rogers, P 2007 *Cloth and Clothing in Early Anglo-Saxon England, AD450-700*. York: Council for British Archaeology.
- Ward-Perkins, B 2005 *The Fall of Rome and the End of Civilisation*. Oxford: Oxford University Press.
- Warner, R 1988 'The archaeology of Early Historic kingship', in Driscoll, S & Níeke, M (eds) *Power and Politics in Early Medieval Britain and Ireland*, 47–68. Edinburgh: Edinburgh University Press.
- Warner, R B 2000a 'Keeping out the otherworld: the internal ditch at Navan and other Iron Age "hengiform" enclosures', *Emania* 18: 39–44.
- Warner, R B 2000b 'Clogher: an archaeological window on early medieval Tyrone and mid-Ulster', in Dillon, C & Jeffries, H A (eds) *Tyrone: History and Society*, 39–54. Dublin: Geography Publications.
- Watson, W J 1904 *Place-Names of Ross and Cromarty*. Inverness; reprinted Evanton: Highland and Heritage Books 1996.
- Watson, W J 2002 *Scottish Place-Name Papers*. London; reprinted Edinburgh: Steve Savage Publishers.
- Watson, W J 1926 *The Celtic Place-Names of Scotland*. Edinburgh; reprinted Edinburgh: Birlinn 2004.
- Watt, D E R & Murray, A L (eds) 2003 *Fasti Ecclesiae Scotticanae Medii Aevi Ad Annum 1638*. Revised ed. Edinburgh: Scottish Record Society.
- Watt, M 1999 'Kings or gods? Iconographic evidence for Scandinavian gold foil figures', in Dickinson, T M & Griffiths, D (eds) *The Making of Kingdoms*, Anglo-Saxon Studies in Archaeology and History 10: 173–83. Oxford: Oxford University Press.
- Webley, L, Adams, S & Brück, J 2020 *The Social Context of Technology: Non-ferrous Metalworking in Later Prehistoric Britain and Ireland*. Oxford: Oxbow.
- Wedderburn, L M 1973 *Excavations at Greencairn, Cairnton of Balbegno, Fettercairn, Angus {Kincardineshire}: A Preliminary Report*. Dundee: Dundee Museum and Art Gallery.
- Wedderburn, L M & Grime, D 1984 'The cairn cemetery at Garbeg, Drumnadrochit', in Friell, J G P & Watson, W G (eds) *Pictish Studies: Settlement, Burial and Art in Dark Age Northern Britain*, 151–68. Oxford: British Archaeological Reports British Series vol. 125.
- Welch, M 1993 'The archaeological evidence for federate settlement in Britain within the fifth century', in Vallet, F & Kazanski, M (eds) *L'Aremee Romaine et les Barbares du IIIe au VIIe Siegle*, 269–78. Paris: Musee des Antiquites Nationales.
- West, S 1985 *West Stow: The Anglo-Saxon Village (East Anglian Archaeology 24)*. Ipswich: Suffolk County Planning Department.
- Whittle, A 1997 *Sacred Mound Holy Rings: Silbury Hill and the West Kennet Palisade Enclosures: A Later Neolithic Complex in North Wiltshire*. Oxford: Oxbow.

BIBLIOGRAPHY

- Wickham, C 2005 *Framing the Middle Ages: Europe and the Mediterranean, 400–800*. Oxford: Oxford University Press.
- Wickham, C 2009 *The Inheritance of Rome: A History of Europe from 400 to 1000*. London: Penguin.
- Williams, A 2012 *The Sword and the Crucible: a History of the Metallurgy of European Swords up to the 16th Century*. Leiden: Brill.
- Williams, D F 2005 'Late Roman amphora 1: a study of diversification', in Briese, M B & Vaag, L E (eds) *Trade Relations in the Eastern Mediterranean from Late Hellenistic Period to Late Antiquity: The Ceramic Evidence*, 157–68. Odense: University of Southern Denmark.
- Williams, J 1777 *An Account of Some Remarkable Ancient Ruins Lately Discovered in the Highlands and Northern Parts of Scotland*. Edinburgh: William Creech.
- Williams, J 1966 'Some spindle whorls from early ecclesiastical sites', *Transactions of the Dumfriesshire & Galloway Natural History & Antiquarian Society* 43: 149–51.
- Williams, G, Pentz, P & Wemhoff, M (eds) 2014 *Vikings: Life and legend*. London: British Museum Press.
- Wilson, D M 1983 'A bone pin from Sconsburgh, Dunrossness', in O'Connor, A & Clarke, D (eds) *From the Stone Age to the 'Forty-Five: Studies Presented to R.B.K. Stevenson*, 343–49. Edinburgh: John Donald.
- Withers, C W J 1984 *Gaelic in Scotland 1698-1981: The Geographical History of a Language*. Edinburgh: John Donald.
- Woodham, A A 1975 'Tillytarmont cairn', *Discovery and Excavation in Scotland* 6.
- Woolf, A 2006 'Dún Nechtain, Fortriu and the geography of the Picts', *Scottish Historical Review* 85: 182–201.
- Woolf, A 2007a 'The Cult of Moluag, the See of Mortlach and Church Organisation in Northern Scotland in the Eleventh and Twelfth Centuries', in Arbuthnot, S & Hollo, K (eds) *Fil Súil Ngais: A Grey Eye Looks Back: A Festschrift in Honour of Colm Ó Baoill*, 311–22. Ceann Drochaid: Clann Tuirc.
- Woolf, A 2007b *From Pictland to Alba, 789–1070*, New Edinburgh History of Scotland 2. Edinburgh: Edinburgh University Press.
- Woolf, A 2017a 'On the nature of the Picts', *Scottish Historical Review* 96(2): 214–17.
- Woolf, A 2017b 'Review of Alasdair Ross, Land Assessment and Lordship in Medieval Northern Scotland', *Scottish Historical Review* 96(1): 110–2.
- Wright, T 1845 *Second Statistical Account of Scotland; Rhynie, County of Aberdeen*, Vol. XII, 1015–16.
- Yang, X & Perry, L 2013 'Identification of ancient starch grains from the tribe Triticeae in the North China Plain', *Journal of Archaeological Science* 40: 3170–7.
- Yorke, B 1999 'The origins of Anglo-Saxon kingdoms: the contribution of written sources', *Anglo-Saxon Studies in Archaeology and History* 6: 25–9.
- Youngs, S 2007 'Britain, Wales and Ireland: holding things together', in Jankulak, K & Wooding, J (eds) *Ireland and Wales in the Middle Ages*, 80–101. Dublin: Four Courts Press.
- Youngs, S 2013 'From chains to brooches: the uses and hoarding of silver in north Britain in the early historic period', in Hunter, F & Painter, K (eds) *Late Roman Silver: The Traprain Treasure in Context*, 403–26. Edinburgh: Society of Antiquaries of Scotland.
- Zant, J 2019 *The Maryport Roman Settlement Project: Excavations 2013-2014*. Lancaster: Lancaster Imprints.
- Zazzo, A, Lécuyer, C, Sheppard, S M F, Grandjean, P & Mariotti, A 2004 'Diagenesis and the reconstruction of palaeoenvironments: a method to restore original d18O values of carbonate and phosphate from fossil tooth enamel', *Geochimica et Cosmochimica Acta* 68(10): 2245–58.
- Zazzo A, Monahan F J, Moloney A P, Green S & Schmidt O 2011 'Sulphur isotopes in animal hair track distance to sea', *Rapid Communications in Mass Spectrometry* 25(17): 2371–8.
- Zohary, D & Hopf, M 2000 *Domestication of Plants in the Old World*, 3rd ed. Oxford: Oxford University Press.