

# ARCLG107: Technology and Analysis of Archaeological Material: Marcos Martinon-Torres

View Online



Abe, Yoshinari, Izumi Nakai, Kazumitsu Takahashi, Nozomu Kawai, and Sakuji Yoshimura. 2009. 'On-Site Analysis of Archaeological Artifacts Excavated from the Site on the Outcrop at Northwest Saqqara, Egypt, by Using a Newly Developed Portable Fluorescence Spectrometer and Diffractometer'. *Analytical and Bioanalytical Chemistry* 395(7):1987-96. doi: 10.1007/s00216-009-3141-x.

Adams, N. K. 2007. 'Political Affinities and Economic Fluctuations: The Evidence from Textiles'. Pp. 201-7 in *Ancient textiles: production, craft and society : proceedings of the First International Conference on Ancient Textiles, held at Lund, Sweden, and Copenhagen, Denmark, on March 19-23, 2003*. Oxford: Oxbow Books.

Adams, W. Y. 1988. 'Archaeological Classification: Theory versus Practice'. *Antiquity* 56(234):40-56.

Adams, William Yewdale and Adams, Ernest W. 1991. *Archaeological Typology and Practical Reality: A Dialectical Approach to Artifact Classification and Sorting*. Cambridge: Cambridge University Press.

Adriaens, Annemie. 2005. 'Non-Destructive Analysis and Testing of Museum Objects: An Overview of 5 Years of Research'. *Spectrochimica Acta Part B: Atomic Spectroscopy* 60(12):1503-16. doi: 10.1016/j.sab.2005.10.006.

Alfred Gell. 1988. 'Technology and Magic'. *Anthropology Today* 4(2):6-9.

Andrefsky, William. 2005a. *Lithics: Macroscopic Approaches to Analysis*. Vol. Cambridge manuals in archaeology. 2nd ed. Cambridge: Cambridge University Press.

Andrefsky, William. 2005b. *Lithics: Macroscopic Approaches to Analysis*. Vol. Cambridge manuals in archaeology. 2nd ed. Cambridge: Cambridge University Press.

Andrew Martin. 2005. 'Agents in Inter-Action: Bruno Latour and Agency'. *Journal of Archaeological Method and Theory* 12(4):283-311.

Anon. 1981. 'Technological Examination of Neolithic-Bronze Age Pottery from Central and Southeast Europe and from the Near East'. *Journal of Archaeological Science*. doi: 0305-4403(81)90012-1.

Anon. 2012a. 'Building Stones'. Retrieved (<http://escholarship.org/uc/item/3fd124g0?query=building%20stones#page-1>).

Anon. 2012b. 'Utilitarian Stones'. Retrieved (<http://escholarship.org/uc/item/77t294df#page-1>).

Anon. n.d.-a. 'Archaeological Geology of Ancient Egypt'. Retrieved ([http://www.eeescience.utoledo.edu/Faculty/Harrell/Egypt/AGRG\\_Home.html](http://www.eeescience.utoledo.edu/Faculty/Harrell/Egypt/AGRG_Home.html)).

Anon. n.d.-b. 'Archaeometry - Volume 49, Issue 2 - May 2007 - Wiley Online Library'.

Anon. n.d.-c. 'Archaeometry - Volume 50, Issue 6 - December 2008 - Wiley Online Library'.

Anon. n.d.-d. 'Archaeometry - Volume 50, Issue 6 - December 2008 - Wiley Online Library'.

Anon. n.d.-e. 'BGS Rock Classification Scheme - British Geological Survey'. Retrieved (<http://www.bgs.ac.uk/bgsrscs/>).

Anon. n.d.-f. 'Flintsource.Net'. Retrieved (<http://www.flintsource.net/>).

Anon. n.d.-g. 'IAOS World Obsidian Source Catalog'. Retrieved ([http://www.obsidianlab.com/sourcecatalog/s\\_home.html](http://www.obsidianlab.com/sourcecatalog/s_home.html)).

Anon. n.d.-h. 'Mineralogy Database - Mineral Collecting, Localities, Mineral Photos and Data'. Retrieved (<http://www.mindat.org/>).

Anon. n.d.-i. 'Pigments through the Ages - Detailed Pigment Histories, Recipes'. Retrieved (<http://www.webexhibits.org/pigments/>).

Anon. n.d.-j. 'STRAND A - TECHNOLOGY WITHIN SOCIETY '.

Anon. n.d.-k. 'STRAND B - RESEARCH DESIGN AND MATERIALS ANALYSIS'.

Appadurai, A. 1986a. 'Introduction: Commodities and the Politics of Value'. Pp. 3-63 in *The social life of things: commodities in cultural perspective*. Cambridge: Cambridge University Press.

Appadurai, A. 1986b. 'Introduction: Commodities and the Politics of Value'. Pp. 3-63 in *The social life of things: commodities in cultural perspective*. Cambridge: Cambridge University Press.

Appadurai, Arjun. 1986. *The Social Life of Things: Commodities in Cultural Perspective*. Cambridge: Cambridge University Press.

Arthur M. Sackler Colloquia of the National Academy of Sciences and National Academy of Sciences (U.S.). 2005. *Scientific Examination of Art: Modern Techniques in Conservation and Analysis*: National Academy of Sciences, Washington, D.C., March 19-21, 2003. Washington, D.C.: National Academies Press.

Artioli, Gilberto, and Ivana Angelini. 2010. *Scientific Methods and Cultural Heritage: An Introduction to the Application of Materials Science to Archaeometry and Conservation Science*. Oxford: Oxford University Press.

- Ashurst, John, Dimes, Francis G., and Honeyborne, D. B. 1990. Conservation of Building and Decorative Stone: Vol. 1. Vol. Butterworths series in conservation and museology. London: Butterworths.
- Bachmann, H. G. 1982a. The Identification of Slags from Archaeological Sites. Vol. Occasional publication. London: Institute of Archaeology.
- Bachmann, H. G. 1982b. The Identification of Slags from Archaeological Sites. Vol. Occasional publication. London: Institute of Archaeology.
- Bailey, G. N. 1981. 'Concepts, Time-Scales and Explanations in Economic Prehistory'. Pp. 97–117 in Economic archaeology: towards an integration of ecological and social approaches. Vol. BAR international series. Oxford: B.A.R.
- Bamforth, Douglas B., and Peter C. Woodman. 2004. 'Tool Hoards and Neolithic Use of the Landscape in North-Eastern Ireland'. Oxford Journal of Archaeology 23(1):21–44. doi: 10.1111/j.1468-0092.2004.00200.x.
- Barber, E. J. W. 1991. Prehistoric Textiles: The Development of Cloth in the Neolithic and Bronze Ages with Special Reference to the Aegean. Princeton, N.J: Princeton University Press.
- Barnett, William and Hoopes, John W. 1995. The Emergence of Pottery: Technology and Innovation in Ancient Societies. Vol. Smithsonian series in archaeological inquiry. Washington [D.C.]: Smithsonian Institution Press.
- Barrett, J. C. 1991. 'Bronze Age Pottery and the Problem of Classification'. Pp. 201–30 in Papers on the prehistoric archaeology of Cranborne Chase. Vol. Oxbow monograph. Oxford: Oxbow.
- Barrett, J. C., and S. P. Needham. 1988. 'Production, Circulation and Exchange: Problems in the Interpretation of Bronze Age Bronzework'. Pp. 127–40 in The Archaeology of context in the Neolithic and Bronze Age: recent trends. Vol. Recent trends series. Sheffield: Department of Archaeology and Prehistory, University of Sheffield.
- Bar-Yosef, Ofer, and Philip Van Peer. 2009. 'The Chaine Operatoire Approach in Middle Paleolithic Archaeology'. Current Anthropology 50(1):103–31. doi: 10.1086/592234.
- Basalla, George. 1988. The Evolution of Technology. Vol. Cambridge history of science. Cambridge University Press.
- Baxter, M. J. 1994. Exploratory Multivariate Analysis in Archaeology. Edinburgh: Edinburgh University Press.
- Baxter, M. J. 2003. Statistics in Archaeology. Vol. Arnold applications of statistics. London: Arnold.
- Baxter, M. J., and C. E. Buck. 2000. 'Data Handling and Statistical Analysis'. Pp. 681–746 in Modern analytical methods in art and archaeology. Vol. Chemical analysis. New York: Wiley.

- BAXTER, M. J., and I. C. FREESTONE. 2006. 'LOG-RATIO COMPOSITIONAL DATA ANALYSIS IN ARCHAEOOMETRY\*'. *Archaeometry* 48(3):511–31. doi: 10.1111/j.1475-4754.2006.00270.x.
- Bayley, J. 1996. 'Innovation in Later Medieval Urban Metalworking'. *Historical Metallurgy: Journal of the Historical Metallurgy Society* 30:67–71.
- Bayley, J., D. Dungworth, and S. Paynter. 2001a. *Centre for Archaeology Guidelines: Archaeometallurgy*. English Heritage.
- Bayley, J., D. Dungworth, and S. Paynter. 2001b. *Centre for Archaeology Guidelines: Archaeometallurgy*. English Heritage.
- Beck, Margaret E. 2006. 'Midden Ceramic Assemblage Formation: A Case Study from Kalinga, Philippines'. *American Antiquity* 71(1):27–51.
- Beckmann, H. 1995. 'Sophisticated Roman Recovery Techniques for Gold'. *IAMS Newsletter* 19:7–9.
- Bell, C. 2005. 'Wheels within Wheels? A View of Mycenaean Trade from the Levantine Emporia'. Pp. 363–70 in *Emporia: Aegeans in the central and eastern Mediterranean: proceedings of the 10th International Aegean Conference/10e Rencontre égéenne internationale, Athens, Italian School of Archaeology, 14-18 April 2004*. Vol. *Aegaeum*. Liège: Université de Liège, Histoire de l'art et archéologie de la Grèce antique.
- Benco, Nancy L. 2002. 'Worked Bone Tools: Linking Metal Artisans and Animal Processors in Medieval Islamic Morocco'. *Antiquity* 76(292):447–57.
- Benito-Calvo, Alfonso, and Ignacio de la Torre. 2011. 'Analysis of Orientation Patterns in Olduvai Bed I Assemblages Using GIS Techniques: Implications for Site Formation Processes'. *Journal of Human Evolution* 61(1):50–60. doi: 10.1016/j.jhevol.2011.02.011.
- Bevan, Andrew. 2012. 'Spatial Methods for Analysing Large-Scale Artefact Inventories.' *Antiquity* 86(332):492–506.
- Biers, William R. 1992. *Art, Artefacts, and Chronology in Classical Archaeology*. Vol. *Approaching the ancient world*. London: Routledge.
- Binford, L. R. 1968. 'Archaeological Perspectives'. Pp. 155–86 in *New perspectives in archaeology*. Chicago: Aldine.
- Binford, L. R. 1983. 'Hunters in a Landscape'. Pp. 109–43 in *In pursuit of the past: decoding the archaeological record*. Thames and Hudson.
- Blackman, M. James, Gil J. Stein, and Pamela B. Vandiver. 1993. 'The Standardization Hypothesis and Ceramic Mass Production: Technological, Compositional, and Metric Indexes of Craft Specialization at Tell Leilan, Syria'. *American Antiquity* 58(1):60–80.
- Blankholm, H. P. 1991. *Intrasite Spatial Analysis in Theory and Practice*. Aarhus: Aarhus University Press.
- Blomster, J. P. 2005. 'Olmec Pottery Production and Export in Ancient Mexico Determined Through Elemental Analysis'. *Science* 307(5712):1068–72. doi: 10.1126/science.1107599.

- Boivin, Nicole. 2008. *Material Cultures, Material Minds: The Impact of Things on Human Thought, Society, and Evolution*. Cambridge: Cambridge University Press.
- Bowman, Sheridan and British Museum. Department of Scientific Research. 1991. *Science and the Past*. Toronto, Ont: University of Toronto Press.
- Bradley, Richard and Edmonds, M. R. 1993. *Interpreting the Axe Trade: Production and Exchange in Neolithic Britain*. Vol. *New studies in archaeology*. Cambridge: Cambridge University Press.
- Brian Hayden. 1984. 'Are Emic Types Relevant to Archaeology?' *Ethnohistory* 31(2):79-92.
- Brian Hayden. 1998a. 'Practical and Prestige Technologies: The Evolution of Material Systems'. *Journal of Archaeological Method and Theory* 5(1):1-55.
- Brian Hayden. 1998b. 'Practical and Prestige Technologies: The Evolution of Material Systems'. *Journal of Archaeological Method and Theory* 5(1):1-55.
- Brothwell, Don R., and A. M. Pollard. 2001. *Handbook of Archaeological Sciences*. Chichester: John Wiley.
- BRUGHMANS, TOM. 2010. 'CONNECTING THE DOTS: TOWARDS ARCHAEOLOGICAL NETWORK ANALYSIS'. *Oxford Journal of Archaeology* 29(3):277-303. doi: 10.1111/j.1468-0092.2010.00349.x.
- Bryan Pfaffenberger. 1988. 'Fetishised Objects and Humanised Nature: Towards an Anthropology of Technology'. *Man* 23(2):236-52.
- Bryan Pfaffenberger. 1992. 'Social Anthropology of Technology'. *Annual Review of Anthropology* 21:491-516.
- Buchli, V. 2004. 'Material Culture: Current Problems'. Pp. 179-94 in *A companion to social archaeology*. Vol. *Social archaeology*. Malden, Mass: Blackwell.
- Buck, Caitlin E. and Millard, Andrew. 2004. *Tools for Constructing Chronologies: Crossing Disciplinary Boundaries*. Vol. *Lecture notes in statistics*. London: Springer.
- Burri, E. 2007. 'Production and Use: Temper as a Marker of Domestic Production in the Case of Two Middle Neolithic Villages in Concise'. Pp. 33-39 in *Archaeometric and archaeological approaches to ceramics: papers presented at EMAC '05, 8th European meeting on ancient ceramics, Lyon 2005*. Vol. *BAR international series*. Oxford: Archaeopress.
- C. A. Gregory. 1980. 'Gifts to Men and Gifts to God: Gift Exchange and Capital Accumulation in Contemporary Papua'. *Man* 15(4):626-52.
- Calligaro, T., S. Colinart, J. P. Poirot, and C. Sudres. 2002. 'Combined External-Beam PIXE and  $\mu$ -Raman Characterisation of Garnets Used in Merovingian Jewellery'. *Nuclear*

- Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms 189(1-4):320-27. doi: 10.1016/S0168-583X(01)01078-3.
- Calligaro, T., J. C. Dran, J. P. Poirrot, G. Querré, J. Salomon, and J. C. Zwaan. 2000. 'PIXE/PIGE Characterisation of Emeralds Using an External Micro-Beam'. *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms* 161-163:769-74. doi: 10.1016/S0168-583X(99)00974-X.
- Caple, Chris. 2006a. *Objects: Reluctant Witnesses to the Past*. London: Routledge.
- Caple, Chris. 2006b. *Objects: Reluctant Witnesses to the Past*. London: Routledge.
- Carmen, J. 1990. 'Commodities, Rubbish and Treasure: Valuing Archaeological Objects'. *Archaeological Review from Cambridge* 9:195-207.
- Carver, M. O. H. 1985. 'Theory and Practice in Urban Pottery Seriation'. *Journal of Archaeological Science* 12:353-66. doi: 0305-4403(85)90064-0.
- Castanzo, Ronald A. 2009. 'Ceramics on the Side: Pottery Making as an Augmentation of Household Economy in the Valley of Puebla during the Formative Period'. *Archeological Papers of the American Anthropological Association* 19(1):133-47. doi: 10.1111/j.1551-8248.2009.01017.x.
- Cathy Lynne Costin. 1991. 'Craft Specialization: Issues in Defining, Documenting, and Explaining the Organization of Production'. *Archaeological Method and Theory* 3:1-56.
- Cathy Lynne Costin. 2000. 'The Use of Ethnoarchaeology for the Archaeological Study of Ceramic Production'. *Journal of Archaeological Method and Theory* 7(4):377-403.
- Chanteller, C. 2008. 'Lithic Technology and the Chaîne Opératoire'. Pp. 160-76 in *Prehistoric Britain*. Vol. Blackwell studies in global archaeology. Malden, Mass: Blackwell.
- Chapman, John. 2000. *Fragmentation in Archaeology: People, Places, and Broken Objects in the Prehistory of South-Eastern Europe*. London: Routledge.
- Chapman, John and Gaydarska, Bisserka. 2007. *Parts and Wholes: Fragmentation in Prehistoric Context*. Oxford: Oxbow Books.
- Chapman, W. R. 1985. 'Arranging Ethnology: A.H.L.F. Pitt Rivers and the Typological Tradition'. Pp. 15-48 in *Objects and others : essays on museums and material culture*.
- Charles H. LeeDecker. 1994. 'Discard Behavior on Domestic Historic Sites: Evaluation of Contexts for the Interpretation of Household Consumption Patterns'. *Journal of Archaeological Method and Theory* 1(4):345-75.
- Charlton, M. F., E. Blakelock, and M. Martinon-Torres. 2012. 'Investigating the Production Provenance of Iron Artifacts with Multivariate Methods'. *Journal of Archaeological Science* 39(7):2280-93.
- Charlton, Michael F., Peter Crew, Thilo Rehren, and Stephen J. Shennan. 2010. 'Explaining the Evolution of Ironmaking Recipes - An Example from Northwest Wales'. *Journal of*

Anthropological Archaeology 29(3):352–67. doi: 10.1016/j.jaa.2010.05.001.

Chilton, Elizabeth S. 1999. *Material Meanings: Critical Approaches to the Interpretation of Material Culture*. Vol. Foundations of archaeological inquiry. Salt Lake City: University of Utah Press.

Chippindale, C. 2006. 'Colleagues, Talking, Writing, Publishing'. Pp. 1339–71 in *Handbook of archaeological methods*. Vol. 2. Lanham, Md: Altamira Press.

Chris Gosden. 2005. 'What Do Objects Want?' *Journal of Archaeological Method and Theory* 12(3):193–211.

Chris Gosden and Yvonne Marshall. 1999. 'The Cultural Biography of Objects'. *World Archaeology* 31(2):169–78.

Christopher Howgego. 1992. 'The Supply and Use of Money in the Roman World 200 B.C. to A.D. 300'. *The Journal of Roman Studies* 82:1–31.

Ciliberto, Enrico, and Giuseppe Spoto. 2000. *Modern Analytical Methods in Art and Archaeology*. Vol. Chemical analysis. New York: Wiley.

Clarke, David L. 1979. *Analytical Archaeologist: Collected Papers of David L. Clarke*. Vol. Studies in archeology. London: Academic Press.

Clough, T. H. McK. and Cummins, W. A. 1988. *Stone Axe Studies: Volume 2: The Petrology of Prehistoric Stone Implements from the British Isles*. Vol. Research report / Council for British Archaeology. London: Council for British Archaeology.

Cochrane, Ethan E., and Hector Neff. 2006. 'Investigating Compositional Diversity among Fijian Ceramics with Laser Ablation-Inductively Coupled Plasma-Mass Spectrometry (LA-ICP-MS): Implications for Interaction Studies on Geologically Similar Islands'. *Journal of Archaeological Science* 33(3):378–90. doi: 10.1016/j.jas.2005.08.003.

Cole, Michael. 1996. *Cultural Psychology: A Once and Future Discipline*. Cambridge, Mass: Belknap Press of Harvard University Press.

Collins, M. B. 1975. 'Lithic Technology as a Means of Processual Inference'. Pp. 15–34 in *Lithic technology: making and using stone tools*. Vol. World anthropology. The Hague: Mouton.

Conservation institute, The Getty. 1999a. *Infrared Spectroscopy in Conservation Science - Infrared Spectroscopy*.

Conservation institute, The Getty. 1999b. *Infrared Spectroscopy in Conservation Science - Infrared Spectroscopy*.

Cooney, Gabriel, Mandal, Stephen, Byrnes, Emmet, and O'Carroll, Finola. 1998. *The Irish Stone Axe Project: Monograph I*. Bray: Wordwell.

Costin, C. 1989. 'The Impact of the Inca Conquest on Local Technology in the Upper Mantaro Valley, Peru'. Pp. 107–39 in *What's new?: a closer look at the process of*

innovation. Vol. One world archaeology. London: Unwin Hyman.

Cotte, Marine, Paul Dumas, Yoko Taniguchi, Emilie Checroun, Philippe Walter, and Jean Susini. 2009. 'Recent Applications and Current Trends in Cultural Heritage Science Using Synchrotron-Based Fourier Transform Infrared Micro-Spectroscopy'. *Comptes Rendus Physique* 10(7):590–600. doi: 10.1016/j.crhy.2009.03.016.

Crabtree, D. E. 1975. 'Comments of Lithic Technology and Experimental Archaeology'. Pp. 105–13 in *Lithic technology: making and using stone tools*. Vol. World anthropology. The Hague: Mouton.

Craig, Nathan, Robert J. Speakman, Rachel S. Popelka-Filcoff, Michael D. Glascock, J. David Robertson, M. Steven Shackley, and Mark S. Aldenderfer. 2007. 'Comparison of XRF and PXRF for Analysis of Archaeological Obsidian from Southern Perú'. *Journal of Archaeological Science* 34(12):2012–24. doi: 10.1016/j.jas.2007.01.015.

Crawford, Michael H. 1985. *Coinage and Money under the Roman Republic: Italy and the Mediterranean Economy*. Vol. The Library of numismatics. London: Methuen.

Creighton, John. 2000. *Coins and Power in Late Iron Age Britain*. Vol. New studies in archaeology. Cambridge: Cambridge University Press.

Crossley, D. 1998. 'The English Glassmaker and His Search for Materials in the 16th and 17th Centuries'. in *The prehistory & history of glassmaking technology*. Vol. Ceramics and civilization. Westerville, OH: American Ceramic Society.

Crump, Thomas. 1981. *The Phenomenon of Money*. London: Routledge & Kegan Paul.

Cumberpatch, C. G. 1997. 'Towards a Phenomenological Approach to Medieval Pottery'. Pp. 125–52 in *Not so much a pot, more a way of life: current approaches to artefact analysis in archaeology*.

Dant, Tim. 1999. *Material Culture in the Social World: Values, Activities, Lifestyles*. Buckingham: Open Univeristy Press.

David, N., and C. Kramer. 2001. 'Studying Artifacts: Functions, Operating Sequences, Taxonomy'. Pp. 138–67 in *Ethnoarchaeology in action*. Vol. Cambridge world archaeology. Cambridge: Cambridge University Press.

David Wengrow. 2001. 'The Evolution of Simplicity: Aesthetic Labour and Social Change in the Neolithic Near East'. *World Archaeology* 33(2):168–88.

Day, Peter M., Evangelia Kiriati, Alexandra Tsolakidou, and Vassilis Kilikoglou. 1999. 'Group Therapy in Crete: A Comparison Between Analyses by NAA and Thin Section Petrography of Early Minoan Pottery'. *Journal of Archaeological Science* 26(8):1025–36. doi: 10.1006/jasc.1999.0424.

De Atley, S. P., and R. L. Bishop. 1991. 'Toward an Integrated Interface for Archaeology and Archaeometry'. Pp. 358–81 in *The ceramic legacy of Anna O. Shepard*.

De Benedetto, G. E., R. Laviano, L. Sabbatini, and P. G. Zambonin. 2002. 'Infrared



- Spectroscopy in the Mineralogical Characterization of Ancient Pottery'. *Journal of Cultural Heritage* 3(3):177–86. doi: 10.1016/S1296-2074(02)01178-0.
- Deal, M. 1985. 'Household Pottery Disposal in the Maya Highlands: An Ethnoarchaeological Interpretation'. *Journal of Anthropological Archaeology* 243–91. doi: 0278-4165(85)90008-X.
- Deal, M., and M. B. Hagstrum. 1995. 'Ceramic Reuse Behavior among the Maya and Wanka: Implications for Archaeology'. Pp. 111–25 in *Expanding archaeology*. Salt Lake City: University of Utah Press.
- DeAtley, S. P., and R. L. Bishop. 1991. 'Toward an Integrated Interface for Archaeology and Archaeometry'. Pp. 358–81 in *The ceramic legacy of Anna O. Shepard*. Niwot, Colo: University Press of Colorado.
- Demortier, G., A. Adriaens, European Cooperation in the Field of Scientific and Technical Research (Organization), and European Commission. 2000. *Ion Beam Study of Art and Archaeological Objects*. Vol. EUR. Luxembourg: Office for Official Publications of the European Communities.
- Dietler, M. 1999. 'Rituals of Commensality and the Politics of State Formation in the "Princely" Societies of Early Iron Age Europe'. Pp. 135–52 in *Les princes de la protohistoire et l'émergence de l'Etat: actes de la table ronde internationale organisée par le Centre Jean Bérard et l'Ecole française de Rome, Naples, 27-29 octobre 1994*. Vol. *Collection de l'Ecole française de Rome*. Naples: Centre J. Bérard.
- Dietler, Michael. 2010. *Archaeologies of Colonialism: Consumption, Entanglement, and Violence in Ancient Mediterranean France*. Vol. *The Joan Palevsky imprint in classical literature*. Berkeley: University of California Press.
- Dillian, Carolyn D. and White, Carolyn L. 2010. *Trade and Exchange: Archaeological Studies from History and Prehistory*. New York: Springer.
- Dobres, M. A., and C. R. Hoffman. 1994. 'Social Agency and the Dynamics of Prehistoric Technology'. *Journal of Archaeological Method and Theory* 1(3):211–58.
- Dobres, Marcia-Anne. 1999. 'Technology's Links and Chaînes : The Processual Unfolding of Technique and Technician'. Pp. 124–46 in *The social dynamics of technology : practice, politics, and world views*. Smithsonian Institution Press.
- Dobres, Marcia-Anne. 2000. *Technology and Social Agency: Outlining a Practice Framework for Archaeology*. Vol. *Social archaeology*. Oxford: Blackwell Publishers.
- Dobres, Marcia-Anne and Hoffman, Christopher R. 1999. *The Social Dynamics of Technology: Practice, Politics, and World Views*. Washington, D.C.: Smithsonian Institution Press.
- Dran, Jean-Claude, Joseph Salomon, Thomas Calligaro, and Philippe Walter. 2004. 'Ion Beam Analysis of Art Works: 14 Years of Use in the Louvre'. *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms* 219–220:7–15. doi: 10.1016/j.nimb.2004.01.019.

- Drennan, Robert D. 2009. *Statistics for Archaeologists: A Commonsense Approach*. Vol. Interdisciplinary contributions to archaeology. 2nd ed. New York: Springer.
- Dunnell, R. C. 1986. 'Methodological Issues in Americanist Artifact Classification'. *Advances in Archaeological Method and Theory* 9:149–207.
- Earle, T. 1999. 'Production and Exchange in Prehistory'. Pp. 608–35 in *Companion encyclopedia of archaeology*. London: Routledge.
- Earle, T. 2010. 'Exchange Systems in Prehistory'. Pp. 205–17 in *Trade and exchange: archaeological studies from history and prehistory*. New York: Springer.
- Edmonds, M. R. 1995. *Stone Tools and Society: Working Stone in Neolithic and Bronze Age Britain*. London: Routledge.
- Edwards, Howell G. M., John M. Chalmers, and Royal Society of Chemistry (Great Britain). 2005. *Raman Spectroscopy in Archaeology and Art History*. Vol. RSC analytical spectroscopy monographs. Cambridge: Royal Society of Chemistry.
- Edwards, Howell G. M. and Lewis, Ian R. 2001. *Handbook of Raman Spectroscopy: From the Research Laboratory to the Process Line*. Vol. Practical spectroscopy. New York: Marcel Dekker.
- Eerkens, Jelmer W., and Carl P. Lipo. 2005. 'Cultural Transmission, Copying Errors, and the Generation of Variation in Material Culture and the Archaeological Record'. *Journal of Anthropological Archaeology* 24(4):316–34. doi: 10.1016/j.jaa.2005.08.001.
- Eiland, M. L., and Q. Williams. 2001. 'Investigation of Islamic Ceramics from Tell Tuneinir Using X-Ray Diffraction'. *Geoarchaeology* 16(8):875–903. doi: 10.1002/gea.1025.
- Elizabeth DeMarrais, Luis Jaime Castillo and Timothy Earle. 1996. 'Ideology, Materialization, and Power Strategies'. *Current Anthropology* 37(1):15–31.
- Ewen, Charles Robin. 2003. *Artifacts*. Vol. Archaeologist's toolkit. Walnut Creek, CA: AltaMira Press.
- Figueiredo, Elin, Rui J. C. Silva, M. Fátima Araújo, and João C. Senna-Martinez. 2010. 'Identification of Ancient Gilding Technology and Late Bronze Age Metallurgy by EDXRF, Micro-EDXRF, SEM-EDS and Metallographic Techniques'. *Microchimica Acta* 168(3–4):283–91. doi: 10.1007/s00604-009-0284-6.
- Fish, Paul R. 1978. 'Consistency in Archaeological Measurement and Classification: A Pilot Study'. *American Antiquity* 43(1):86–89.
- Fitzhugh, Ben. 2001. 'Risk and Invention in Human Technological Evolution'. *Journal of Anthropological Archaeology* 20(2):125–67. doi: 10.1006/jaar.2001.0380.
- Fletcher, Mike, and G. R. Lock. 1991. *Digging Numbers: Elementary Statistics for Archaeologists*. Vol. Monograph / Oxford University Committee for Archaeology. Oxford: Oxford University Committee for Archaeology.

- Foucault, Michel. 1995. *Discipline and Punish: The Birth of the Prison*. 2nd Vintage Books ed. New York: Vintage Books.
- Françoise Audouze. 2002. 'Leroi-Gourhan, a Philosopher of Technique and Evolution'. *Journal of Archaeological Research* 10(4):277–306.
- Frankenstein, S., and M. Rowlands. 1998. 'The Internal Structure and Regional Context of Early Iron Age Society in South-Western Germany'. in *Social transformations in archaeology: global and local perspectives*. Vol. Material cultures. London: Routledge.
- Freestone, I. 2006. 'Glass Production in Late Antiquity and the Early Islamic Period: A Geochemical Perspective'. *Geomaterials in Cultural Heritage* 201–16.
- Freestone, I. 2008a. 'Chapter 4: Pliny on Roman Glassmaking'. Pp. 77–100 in *Archaeology, history and science: integrating approaches to ancient materials*. Vol. Publications of the Institute of Archaeology, University College London. Walnut Creek, CA: Left Coast Press.
- Freestone, I. 2008b. 'Pliny on Roman Glassmaking'. Pp. 77–100 in *Archaeology, history and science: integrating approaches to ancient materials*. Vol. Publications of the Institute of Archaeology, University College London. Walnut Creek, CA: Left Coast Press.
- Freestone, I., M. Huges, and C. Stapleton. 2008. 'The Composition and Production of Anglo-Saxon Glass'. Pp. 29–46 in *Catalogue of Anglo-Saxon glass in the British Museum*. Vol. British Museum research publication. London: British Museum.
- Freestone, I., J. Price, and C. Cartwright. 2009. 'The Batch: Its Recognition and Significance'. Pp. 130–35 in *Annales du 17e Congrès de l'Association Internationale pour l'Histoire du Verre, Anvers, 2006 =: Annales of the 17th Congress of the International Association for the History of Glass, 2006, Antwerp*. Antwerp: University Press Antwerp.
- Freestone, Ian and Gaimster, David R. M. 1997a. *Pottery in the Making: World Ceramic Traditions*. London: British Museum Press.
- Freestone, Ian and Gaimster, David R. M. 1997b. *Pottery in the Making: World Ceramic Traditions*. London: British Museum Press.
- FREUND, K. P. 2013. 'AN ASSESSMENT OF THE CURRENT APPLICATIONS AND FUTURE DIRECTIONS OF OBSIDIAN SOURCING STUDIES IN ARCHAEOLOGICAL RESEARCH'. *Archaeometry* 55(5):779–93. doi: 10.1111/j.1475-4754.2012.00708.x.
- Gale, N. H. 2009. 'A Response to the Paper of A. M. Pollard'. Pp. 191–96 in *From mine to microscope: advances in the study of ancient technology*. Oxford: Oxbow Books.
- Gale, N. H., and Z. Stos-Gale. 2000. 'Lead Isotope Analyses Applied to Provenance Studies.' Pp. 503–84 in *Modern analytical methods in art and archaeology*. Vol. Chemical analysis. New York: Wiley.
- Gell, Alfred. 1998. *Art and Agency: An Anthropological Theory*. Oxford: Clarendon Press.
- George Dalton. 1969. 'Theoretical Issues in Economic Anthropology'. *Current Anthropology* 10(1):63–102.

- Giumlia-Mair, A. 2010. 'Surface Characterisation Techniques in the Study and Conservation of Art and Archaeological Artefacts: A Review'. *Materials Technology* 25(5):345–261.
- Gleba, Margarita. 2008. *Textile Production in Pre-Roman Italy*. Vol. Ancient textiles series. Oxford: Oxbow Books.
- Gleba, Margarita and Mannering, Ulla. 2012. *Textiles & Textile Production in Europe: From Prehistory to AD 400*. Vol. Ancient textiles series. Oxford: Oxbow.
- Goffer, Zvi. 2007. *Archaeological Chemistry*. 2nd ed. Hoboken, N.J.: Wiley.
- Gräslund, Bo. 1987. *The Birth of Prehistoric Chronology: Dating Methods and Dating Systems in Nineteenth-Century Scandinavian Archaeology*. Vol. New studies in archaeology. Cambridge: Cambridge University Press.
- Gratuze, B. 1999. 'Obsidian Characterization by Laser Ablation ICP-MS and Its Application to Prehistoric Trade in the Mediterranean and the Near East: Sources and Distribution of Obsidian within the Aegean and Anatolia'. *Journal of Archaeological Science* 26(8):869–81. doi: 10.1006/jasc.1999.0459.
- Gratuze, B., and K. Janssens. 2004. 'Provenance Analysis of Glass Artefacts'. Pp. 663–712 in *Non-destructive microanalysis of cultural heritage materials*. Vol. Comprehensive analytical chemistry. Amsterdam, London: Elsevier.
- Gregory, C. A. 2002. 'Exchange and Reciprocity'. Pp. 911–33 in *Companion encyclopedia of anthropology*. Vol. Routledge world reference. London: Routledge.
- GUERRA, M. F., T. CALLIGARO, and A. PEREA. 2007. 'THE TREASURE OF GUARRAZAR: TRACING THE GOLD SUPPLIES IN THE VISIGOTHIC IBERIAN PENINSULA'. *Archaeometry* 49(1):53–74. doi: 10.1111/j.1475-4754.2007.00287.x.
- Guerra, Maria Filomena. 1998. 'Analysis of Archaeological Metals. The Place of XRF and PIXE in the Determination of Technology and Provenance'. *X-Ray Spectrometry* 27(2):73–80. doi: 10.1002/(SICI)1097-4539(199803/04)27:2<73::AID-XRS249>3.0.CO;2-5.
- Haines, Helen R., Gary M. Feinman, and Linda M. Nicholas. 2004. 'HOUSEHOLD ECONOMIC SPECIALIZATION AND SOCIAL DIFFERENTIATION: The Stone-Tool Assemblage at El Palmillo, Oaxaca'. *Ancient Mesoamerica* 15(02):251–66. doi: 10.1017/S0956536104040155.
- Hamilton, E. 2004. 'The Four Scales of Technical Analysis; or 'how to Make Archaeometry More Useful'. Pp. 45–48 in *Exploring the role of analytical scale in archaeological interpretation*. Vol. BAR international series. Oxford: Archaeopress.
- Hancock, R. G. V. 2000. 'Elemental Analysis'. Pp. 11–20 in *Modern analytical methods in art and archaeology*. Vol. Chemical analysis. New York: Wiley.
- Hardy-Smith, Tania, and Phillip C. Edwards. 2004. 'The Garbage Crisis in Prehistory: Artefact Discard Patterns at the Early Natufian Site of Wadi Hammeh 27 and the Origins of Household Refuse Disposal Strategies'. *Journal of Anthropological Archaeology* 23(3):253–89. doi: 10.1016/j.jaa.2004.05.001.

Harris, S. 2010. 'Smooth and Cool or Warm and Soft, Investigating the Properties of Cloth in Prehistory. | Susanna Harris - Academia.Edu'. in In North European Symposium for Archaeological Textiles X. Vol. 5, edited by A. Strand. Oxbow Books.

Hayden, B., and A. Cannon. 1983. 'Where the Garbage Goes: Refuse Disposal in the Maya Highlands'. *Journal of Anthropological Archaeology* 117–63. doi: 0278-4165(83)90010-7.

Heginbotham, A. 2010. 'AN EVALUATION OF INTER-LABORATORY REPRODUCIBILITY FOR QUANTITATIVE XRF OF HISTORIC COPPER ALLOYS | Arlen Heginbotham - Academia.Edu'. Pp. 244–55 in *Metal 2010. Proceedings of the International Conference on Metal Conservation*, Charleston, South Carolina, USA, October 11-15, 2010.

Henare, Amiria J. M., Holbraad, Martin, and Wastell, Sari. 2007. *Thinking through Things: Theorising Artefacts Ethnographically*. Abingdon: Routledge.

Henderson et al., J. 2005a. 'Experiment and Innovation: Early Islamic Industry at al-Raqqa, Syria'. *Antiquity* 79:130–45.

Henderson et al., J. 2005b. 'Experiment and Innovation: Early Islamic Industry at al-Raqqa, Syria'. *Antiquity* 79:130–45.

Henderson, J., S. D. McLoughlin, and D. S. McPhail. 2004. 'Radical Changes in Islamic Glass Technology: Evidence for Conservatism and Experimentation with New Glass Recipes from Early and Middle Islamic Raqqa, Syria'. *Archaeometry* 46(3):439–68. doi: 10.1111/j.1475-4754.2004.00167.x.

Henderson, Julian. 1989. *Scientific Analysis in Archaeology and Its Interpretation*. Vol. UCLA Institute of Archaeology, archaeological research tools. Oxford: Oxford University Committee for Archaeology, Institute of Archaeology.

Henderson, Julian. 2000. *The Science and Archaeology of Materials: An Investigation of Inorganic Materials*. London: Routledge.

Henderson, Julian. 2000. *The Science and Archaeology of Materials: An Investigation of Inorganic Materials*. London: Routledge.

Herz, N. 2001. 'Sourcing Lithic Artefacts by Instrumental Analysis'. Pp. 449–72 in *Earth sciences and archaeology*. New York: Kluwer Academic/Plenum Publishers.

Hietala, Harold J. 1984. *Intrasite Spatial Analysis in Archaeology*. Vol. *New directions in archaeology*. Cambridge: Cambridge University Press.

Hill, J. D. 1995. *Ritual and Rubbish in the Iron Age of Wessex: A Study on the Formation of a Specific Archaeological Record*. Vol. *BAR British series*. Oxford: Tempus Reparatum.

Hodder, I. 2004. 'Neo-Thingness'. Pp. 45–52 in *Explaining social change: studies in honour of Colin Renfrew*. Vol. *McDonald Institute monographs*. Cambridge: McDonald Institute for Archaeological Research.

Hodder, Ian and McDonald Institute for Archaeological Research. 2005. *Changing Materialities at Çatalhöyük: Reports from the 1995-99 Seasons*. Vol. *McDonald Institute*

monographs. Cambridge: McDonald Institute for Archaeological Research.

Hodder, Ian and Orton, Clive. 1976a. *Spatial Analysis in Archaeology*. Vol. *New studies in archaeology*. Cambridge: Cambridge University Press.

Hodder, Ian and Orton, Clive. 1976b. *Spatial Analysis in Archaeology*. Vol. *New studies in archaeology*. Cambridge: Cambridge University Press.

Holtorf, C. 2002. 'Notes on the Life History of a Pot Sherd'. *Journal of Material Culture* 7(1):49–71. doi: 10.1177/1359183502007001305.

Hoskins, Janet. 1998. *Biographical Objects: How Things Tell the Stories of People's Lives*. New York: Routledge.

Hosler, Dorothy. 1994. *The Sounds and Colors of Power: The Sacred Metallurgical Technology of Ancient West Mexico*. Cambridge, Mass: MIT Press.

Huckell, Bruce B., J. David Kilby, Matthew T. Boulanger, and Michael D. Glascock. 2011. 'Sentinel Butte: Neutron Activation Analysis of White River Group Chert from a Primary Source and Artifacts from a Clovis Cache in North Dakota, USA'. *Journal of Archaeological Science* 38(5):965–76. doi: 10.1016/j.jas.2010.11.011.

Hughes, M. 1991. 'Tracing to Source'. in *Science and the past*. London: British Museum Press.

Humphris, Jane, Marcos Martínón-Torres, Thilo Rehren, and Andrew Reid. 2009a. 'Variability in Single Smelting Episodes – a Pilot Study Using Iron Slag from Uganda'. *Journal of Archaeological Science* 36(2):359–69. doi: 10.1016/j.jas.2008.09.020.

Humphris, Jane, Marcos Martínón-Torres, Thilo Rehren, and Andrew Reid. 2009b. 'Variability in Single Smelting Episodes – a Pilot Study Using Iron Slag from Uganda'. *Journal of Archaeological Science* 36(2):359–69. doi: 10.1016/j.jas.2008.09.020.

Hurcombe, L. 2007. 'Plant Processing for Cordage and Textiles Using Serrated Flint Edges: New Chaines Operatoires Suggested by Ethnographic, Archaeological and Experimental Evidence for Bast Fibre Processing'. Pp. 41–66 in *Plant processing from a prehistoric and ethnographic perspective =: Préhistoire et ethnographie du travail des plantes : proceedings of a workshop at Ghent University (Belgium) November 28, 2006*. Vol. *BAR international series*. Oxford: John & Erica Hedges.

Hurcombe, L. M. 2007a. *Archaeological Artefacts as Material Culture*. London: Routledge.

Hurcombe, L. M. 2007b. *Archaeological Artefacts as Material Culture*. London: Routledge.

Hutson, Scott R., and Travis W. Stanton. 2007. 'Cultural Logic and Practical Reason: The Structure of Discard in Ancient Maya Houselots'. *Cambridge Archaeological Journal* 17(02). doi: 10.1017/S0959774307000212.

Ian Hodder. 1974. 'Regression Analysis of Some Trade and Marketing Patterns'. *World Archaeology* 6(2):172–89.

Ian Hodder. 1993. 'The Narrative and Rhetoric of Material Culture Sequences'. *World Archaeology* 25(2):268–82.

- Ingo, G. M., S. Balbi, T. de Caro, I. Fragalà, E. Angelini, and G. Bultrini. 2006. 'Combined Use of SEM-EDS, OM and XRD for the Characterization of Corrosion Products Grown on Silver Roman Coins'. *Applied Physics A* 83(4):493–97. doi: 10.1007/s00339-006-3533-0.
- Ingold, Tim. 1999. 'Tools for the Hand, Language for the Face': An Appreciation of Leroi-Gourhan's Gesture and Speech'. *Studies in History and Philosophy of Science Part C: Studies in History and Philosophy of Biological and Biomedical Sciences* 30(4):411–53. doi: 10.1016/S1369-8486(99)00022-9.
- Ingold, Tim. 2007a. 'Materials against Materiality'. *Archaeological Dialogues* 14(01). doi: 10.1017/S1380203807002127.
- Ingold, Tim. 2007b. 'Materials against Materiality'. *Archaeological Dialogues* 14(01). doi: 10.1017/S1380203807002127.
- Janssens, Koen H. A., and R. van Grieken. 2004. *Non-Destructive Microanalysis of Cultural Heritage Materials*. Vol. Comprehensive analytical chemistry. Amsterdam, London: Elsevier.
- Jennings, Justin, Kathleen L. Antrobus, Sam J. Atencio, Erin Glavich, Rebecca Johnson, German Loffler, and Christine Luu. 2005. "'Drinking Beer in a Blissful Mood" Alcohol Production, Operational Chains, and Feasting in the Ancient World'. *Current Anthropology* 46(2):275–303. doi: 10.1086/427119.
- John H. Dowling. 1979. 'The Goodfellows vs. the Dalton Gang: The Assumptions of Economic Anthropology'. *Journal of Anthropological Research* 35(3):292–308.
- Jones, A. 2004a. 'Archaeometry and Materiality: Materials-Based Analysis in Theory and Practice'. *Archaeometry* 46(3):327–38. doi: 10.1111/j.1475-4754.2004.00161.x.
- Jones, A. 2004b. 'Archaeometry and Materiality: Materials-Based Analysis in Theory and Practice'. *Archaeometry* 46(3):327–38. doi: 10.1111/j.1475-4754.2004.00161.x.
- Jones, A. 2004c. 'Archaeometry and Materiality: Materials-Based Analysis in Theory and Practice\*'. *Archaeometry* 46(3):327–38. doi: 10.1111/j.1475-4754.2004.00161.x.
- Jones, Andrew. 2001. *Archaeological Theory and Scientific Practice*. Vol. Topics in contemporary archaeology. Cambridge: Cambridge University Press.
- Jones, Andrew. 2001. *Archaeological Theory and Scientific Practice*. Vol. Topics in contemporary archaeology. Cambridge: Cambridge University Press.
- Jones, Andrew. 2007. *Memory and Material Culture*. Vol. Topics in contemporary archaeology. Cambridge: Cambridge University Press.
- Jørgensen, Lise Bender. 1992. *North European Textiles until AD 1000*. Aarhus: Aarhus University Press.
- Katherine A. Spielmann. 2002. 'Feasting, Craft Specialization, and the Ritual Mode of Production in Small-Scale Societies'. *American Anthropologist* 104(1):195–207.

- Katsianis, Markos, Spyros Tsipidis, Kostas Kotsakis, and Alexandra Kousoulakou. 2008. 'A 3D Digital Workflow for Archaeological Intra-Site Research Using GIS'. *Journal of Archaeological Science* 35(3):655–67. doi: 10.1016/j.jas.2007.06.002.
- Kempton, Willett. 1981. *The Folk Classification of Ceramics: A Study of Cognitive Prototypes*. Vol. Language, thought, and culture. New York: Academic Press.
- Kenneth G. Hirth. 1996. 'Political Economy and Archaeology: Perspectives on Exchange and Production'. *Journal of Archaeological Research* 4(3):203–39.
- Killick, D., and T. Fenn. 2012. 'Archaeometallurgy: The Study of Preindustrial Mining and Metallurgy'. *Annual Review of Anthropology* 41:559–75.
- Killick, David. 1997. 'Archaeology and Archaeometry: From Casual Dating to a Meaningful Relationship?' *Antiquity* 71(273):518–24.
- Kingery, W. D. 1996. *Learning from Things: Method and Theory of Material Culture Studies*. Washington, D.C.: Smithsonian Institution Press.
- Knecht, H. 1991. 'The Role of Innovation in Changing Early Upper Paleolithic Organic Projectile Technologies - ResearchGate'. *Techniques et Culture* 115–44.
- Kopytoff, I. 1986. 'The Cultural Biology of Things: Commoditization as a Process'. Pp. 64–94 in *The social life of things: commodities in cultural perspective*. Cambridge: Cambridge University Press.
- Krause, Rüdiger. 2003. *Studien Zur Kupfer- Und Frühbronzezeitlichen Metallurgie Zwischen Karpatenbecken Und Ostsee*. Vol. Vorgeschichtliche Forschungen. Rahden/Westf: Leidorf.
- Kroll, Ellen M., Price, T. Douglas, and Society for American Archaeology. 1991. *The Interpretation of Archaeological Spatial Patterning*. Vol. Interdisciplinary contributions to archaeology. New York: Plenum Press.
- Lambert, Joseph B. 1997. *Traces of the Past: Unraveling the Secrets of Archaeology through Chemistry*. Vol. Helix books. Cambridge, Mass: Perseus.
- Latour, Bruno. 1999. *Pandora's Hope: Essays on the Reality of Science Studies*. Cambridge, Mass: Harvard University Press.
- Lechtman, H. 1977. 'Style in Technology - Some Early Thoughts'. Pp. 3–20 in *Material culture: styles, organization, and dynamics of technology*. Vol. Proceedings of the American Ethnological Society. St. Paul: West Pub. Co.
- Lechtman, H. 1984. 'Andean Value Systems and the Development of Prehistoric Metallurgy'. *Technology and Culture* 25:1–36.
- Lemonnier, P. 1986a. 'The Study of Material Culture Today: Toward an Anthropology of Technical Systems'. *Journal of Anthropological Archaeology*. doi: 0278-4165(86)90012-7.
- Lemonnier, P. 1986b. 'The Study of Material Culture Today: Toward an Anthropology of Technical Systems'. *Journal of Anthropological Archaeology*. doi: 0278-4165(86)90012-7.



- Lemonnier, Pierre. 1992a. Elements for an Anthropology of Technology. Vol. Anthropological papers / Museum of Anthropology, University of Michigan. Ann Arbor, Mich: Museum of Anthropology, University of Michigan.
- Lemonnier, Pierre. 1992b. Elements for an Anthropology of Technology. Vol. Anthropological papers / Museum of Anthropology, University of Michigan. Ann Arbor, Mich: Museum of Anthropology, University of Michigan.
- Lemonnier, Pierre. 1993. Technological Choices: Transformation in Material Cultures since the Neolithic. Vol. Material cultures. London: Routledge.
- Leo Biek and Justine Bayley. 1979. 'Glass and Other Vitreous Materials'. World Archaeology 11(1):1-25.
- Lesick, Kurtis and University of Calgary. 2002. Eureka: The Archaeology of Innovation & Science: Proceedings of the Twenty-Ninth Annual Conference of the Archaeological Association of the University of Calgary. Calgary: Archaeological Association of the University of Calgary.
- Lewis R. Binford. 1962. 'Archaeology as Anthropology'. American Antiquity 28(2):217-25.
- Lewis R. Binford. 1981. 'Behavioral Archaeology and the "Pompeii Premise"'. Journal of Anthropological Research 37(3):195-208.
- Livingood, Patrick C., and Ann S. Cordell. 2009. 'Point/Counter Point: The Accuracy and Feasibility of Digital Image Techniques in the Analysis of Ceramic Thin Sections'. Journal of Archaeological Science 36(3):867-72. doi: 10.1016/j.jas.2008.11.015.
- Lo Cascio, E. 1996. 'How Did the Romans View Their Coinage and Its Function?' Pp. 273-87 in Coin finds and coin use in the Roman world: the thirteenth Oxford Symposium on Coinage and Monetary History, 25.-27.3.1993: a NATO advanced research workshop. Vol. Studien zu Fundmünzen der Antike. Berlin: Gebr. Mann Verlag.
- Loney, Helen L. 2000. 'Society and Technological Control: A Critical Review of Models of Technological Change in Ceramic Studies'. American Antiquity 65(4):646-68.
- Lubar, Steven D. and Kingery, W. D. 1993. History from Things: Essays on Material Culture. Washington: Smithsonian Institution Press.
- Lucas, G. 2005. 'Case Study: The Life and Times of a Roman Jar'. Pp. 95-113 in The archaeology of time. Vol. Themes in archaeology. London: Routledge.
- M. James Blackman, Gil J. Stein and Pamela B. Vandiver. 1993. 'The Standardization Hypothesis and Ceramic Mass Production: Technological, Compositional, and Metric Indexes of Craft Specialization at Tell Leilan, Syria'. American Antiquity 58(1):60-80.
- Maniatis, Y. 2004. 'Scientific Techniques and Methodologies for the Provenance of White Marble'. Pp. 179-202 in Physics methods in archaeometry. Vol. Proceedings of the International School of Physics 'Enrico Fermi'. Amsterdam: IOS Press.
- Margaret C. Nelson. 1991. 'The Study of Technological Organization'. Archaeological Method and Theory 3:57-100.

Margolis, Eric and Laurence, Stephen. 2007. *Creations of the Mind: Theories of Artifacts and Their Representation*. Oxford: Oxford University Press.

Martin, L., and N. Russell. 2000. 'Trashing Rubbish'. Pp. 57–69 in *Towards reflexive method in archaeology: the example at Çatalhöyük*: by members of the Çatalhöyük team. Vol. McDonald Institute monographs. Cambridge: McDonald Institute for Archaeological Research.

Martini, Marco, Mario Milazzo, Marcello Piacentini, Società italiana di fisica, and International School of Physics 'Enrico Fermi'. 2004. *Physics Methods in Archaeometry*. Vol. *Proceedings of the International School of Physics 'Enrico Fermi'*. Amsterdam: IOS Press.

Martinón-Torres, M. 2008. 'Why Should Archaeologists Take History and Science Seriously?' Pp. 15–36 in *Archaeology, history and science: integrating approaches to ancient materials*. Vol. *Publications of the Institute of Archaeology, University College London*. Walnut Creek, CA: Left Coast Press.

Martinon-Torres, M., and T. Rehren. 2009. 'Post-Medieval Crucible Production and Distribution: A Study of Materials and Materialities'. *Archaeometry* 51(1):49–74.

Martinón-Torres, Marcos. 2012. 'Inside Solomon's House: An Archaeological Study of the Old Ashmolean Chymical Laboratory in Oxford\*'. *Ambix* 59(1):22–48. doi: 10.1179/174582312X13296104891436.

Martinón-Torres, Marcos, Xiuzhen Janice Li, Andrew Bevan, Yin Xia, Zhao Kun, and Thilo Rehren. 2011a. 'Making Weapons for the Terracotta Army'. *Archaeology International* 13. doi: 10.5334/ai.1316.

Martinón-Torres, Marcos, Xiuzhen Janice Li, Andrew Bevan, Yin Xia, Zhao Kun, and Thilo Rehren. 2011b. 'Making Weapons for the Terracotta Army'. *Archaeology International* 13. doi: 10.5334/ai.1316.

Martinón-Torres, Marcos, Xiuzhen Janice Li, Andrew Bevan, Yin Xia, Kun Zhao, and Thilo Rehren. 2012. 'Forty Thousand Arms for a Single Emperor: From Chemical Data to the Labor Organization Behind the Bronze Arrows of the Terracotta Army'. *Journal of Archaeological Method and Theory*. doi: 10.1007/s10816-012-9158-z.

Martinón-Torres, Marcos, and Thilo Rehren. 2008. *Archaeology, History and Science: Integrating Approaches to Ancient Materials*. Vol. *Publications of the Institute of Archaeology, University College London*. Walnut Creek, CA: Left Coast Press.

Mauss, M. 1979. 'Body Techniques'. Pp. 97–135 in *Sociology and psychology: essays*. London [etc.]: Routledge and Kegan Paul.

Mauss, Marcel. 2002. *The Gift: The Form and Reason for Exchange in Archaic Societies*. Vol. *Routledge classics*. London: Routledge.

Mauss, Marcel and Schlanger, Nathan. 2006. *Techniques, Technology and Civilisation*. New York: Durkheim Press/Berghahn Books.

Mellars, P. 1989. 'Technological Changes across the Middle-Upper Palaeolithic Transition:

Economic, Social and Cognitive Perspectives'. Pp. 338–65 in *The Human revolution: behavioural and biological perspectives on the origins of modern humans*. Edinburgh: Edinburgh University Press.

Meskell, L. 2006. 'Introduction, Object Orientations'. Pp. 1–17 in *Archaeologies of materiality*. Malden, Mass: Blackwell.

Meskell, Lynn. 2004a. *Object Worlds in Ancient Egypt: Material Biographies Past and Present*. Vol. *Materializing culture*. Oxford: Berg.

Meskell, Lynn. 2004b. *Object Worlds in Ancient Egypt: Material Biographies Past and Present*. Vol. *Materializing culture*. Oxford: Berg.

Meskell, Lynn. 2006. *Archaeologies of Materiality*. Malden, Mass: Blackwell.

Mesoudi, A. 2011. *Cultural Evolution: How Darwinian Theory Can Explain Human Culture and Synthesize the Social Sciences*. University of Chicago Press.

Michael B. Schiffer. 1972. 'Archaeological Context and Systemic Context'. *American Antiquity* 37(2):156–65.

Michael E. Smith, Adrian L. Burke, Timothy S. Hare and Michael D. Glascock. 2007. 'Sources of Imported Obsidian at Postclassic Sites in the Yautepec Valley, Morelos: A Characterization Study Using XRF and INAA'. *Latin American Antiquity* 18(4):429–50.

Michael J. O'Brien, Thomas D. Holland, Robert J. Hoard and Gregory L. Fox. 1994. 'Evolutionary Implications of Design and Performance Characteristics of Prehistoric Pottery'. *Journal of Archaeological Method and Theory* 1(3):259–304.

Michael J. Shott. 1998. 'Status and Role of Formation Theory in Contemporary Archaeological Practice'. *Journal of Archaeological Research* 6(4):299–329.

Michael S. Bisson. 2000. 'Nineteenth Century Tools for Twenty-First Century Archaeology? Why the Middle Paleolithic Typology of François Bordes Must Be Replaced'. *Journal of Archaeological Method and Theory* 7(1):1–48.

MILAZZO, M., and C. CICARDI. 1998. 'X-RAY FLUORESCENCE CHARACTERIZATION OF THE CORONA FERREA'. *Archaeometry* 40(2):351–60. doi: 10.1111/j.1475-4754.1998.tb00843.x.

Miller, D. 1982. 'Artefacts as Products of Human Categorisation Processes'. Pp. 17–25 in *Symbolic and structural archaeology*. Cambridge University Press.

Miller, D. 2002. 'Artefacts and the Meaning of Things'. Pp. 420–59 in *Companion encyclopedia of anthropology*. Vol. *Routledge world reference*. London: Routledge.

Miller, Daniel. 1985. *Artefacts as Categories: A Study of Ceramic Variability in Central India*. Vol. *New studies in archaeology*. Cambridge: Cambridge University Press.

Miller, Daniel. 2005. *Materiality*. Durham, N.C.: Duke University Press.

Miller, Heather Margaret-Louise. 2007. *Archaeological Approaches to Technology*. Amsterdam: Elsevier/Academic Press.

Minc, Leah D. 2006a. 'Monitoring Regional Market Systems in Prehistory: Models, Methods, and Metrics'. *Journal of Anthropological Archaeology* 25(1):82–116. doi: 10.1016/j.jaa.2005.09.003.

Minc, Leah D. 2006b. 'Monitoring Regional Market Systems in Prehistory: Models, Methods, and Metrics'. *Journal of Anthropological Archaeology* 25(1):82–116. doi: 10.1016/j.jaa.2005.09.003.

Monica L. Smith. 1999. 'The Role of Ordinary Goods in Premodern Exchange'. *Journal of Archaeological Method and Theory* 6(2):109–35.

Moore, Henrietta L. 1996. *Space, Text, and Gender: An Anthropological Study of the Marakwet of Kenya*. New York: Guilford Press.

Moorey, P. R. 2001. 'The Mobility of Artisans and Opportunities for Technology Transfer between Western Asia and Egypt in the Late Bronze Age'. Pp. 1–14 in *The social context of technological change: Egypt and the Near East, 1650-1550 B.C. : proceedings of a conference held at St Edmund Hall, Oxford, 12-14 September 2000*. Oxford: Oxbow.

Moreau, Jean-François. 2009. *Proceedings: ISA 2006 : 36th International Symposium on Archaeometry : 2-6 May 2006, Quebec City, Canada*. Vol. Cahiers d'archéologie du CELAT. Québec: CELAT, Université Laval.

Morphy, H. 2009. 'Art as a Mode of Action. Some Problems with Gell's Art and Agency'. *Journal of Material Culture* 14(5):5–27.

Morris, E. L., and A. Woodward. 2003. 'Ceramic Petrology and Prehistoric Pottery in the UK'. *Proceedings of the Prehistoric Society* 69:279–304. doi: 10.1017/S0079497X00001353.

Nanoglou, S. 2008. 'Qualities of Humanness: Material Aspects of Greek Neolithic Anthropomorphic Imagery'. *Journal of Material Culture* 13(3):311–34. doi: 10.1177/1359183508095498.

Nanoglu, S. 2006. 'Regional Perspectives on the Neolithic Anthropomorphic Imagery of Northern Greece'. *Journal of Mediterranean Archaeology* 19(2):155–76.

Needham, S. 1993. 'Displacement and Exchange in Archaeological Methodology'. Pp. 161–69 in *Trade and exchange in prehistoric Europe: proceedings of a conference held at the University of Bristol, April 1992*. Oxford: published by Oxbow Books in association with the Prehistoric Society and the Société préhistorique française.

Needham, Stuart, Spence, Tony, Serjeantson, D., Sørensen, Marie Louise Stig, Ambers, J., Crummy, Stephen, and British Museum. 1996. *Refuse and Disposal at Area 16 East, Runnymede*. Vol. Runnymede Bridge research excavations. London: Trustees of the British Museum.

Nesse, William D. 2004. *Introduction to Optical Mineralogy*. 3rd ed. New York: Oxford

University Press.

Olivier, L. 1999. 'The Hochdorf "princely" Grave and the Question of the Nature of Archaeological Funerary Assemblages'. Pp. 109–38 in *Time and archaeology*. Vol. One world archaeology. London: Routledge.

Olivier P. Gosselain. 1992. 'Technology and Style: Potters and Pottery Among Bafia of Cameroon'. *Man* 27(3):559–86.

Olsen, Bjørnar. 2010a. In *Defense of Things: Archaeology and the Ontology of Objects*. Vol. Archaeology in society series. Lanham: Rowman & Littlefield Publishers.

Olsen, Bjørnar. 2010b. In *Defense of Things: Archaeology and the Ontology of Objects*. Vol. Archaeology in society series. Lanham: Rowman & Littlefield Publishers.

Olsen, Sandra L. 1988. *Scanning Electron Microscopy in Archaeology*. Vol. BAR international series. Oxford: B.A.R.

Orton, Clive. 1980. *Mathematics in Archaeology*. Vol. Collins archaeology. London: Collins.

Orton, Clive. 2000. *Sampling in Archaeology*. Vol. Cambridge manuals in archaeology. Cambridge: Cambridge University Press.

Orton, Clive and Hughes, Mike. 2013a. *Pottery in Archaeology*. Vol. Cambridge manuals in archaeology. 2nd ed. Cambridge: Cambridge University Press.

Orton, Clive and Hughes, Mike. 2013b. *Pottery in Archaeology*. Vol. Cambridge manuals in archaeology. 2nd ed. Cambridge: Cambridge University Press.

Orton, Clive and Hughes, Mike. 2013c. *Pottery in Archaeology*. Vol. Cambridge manuals in archaeology. 2nd ed. Cambridge: Cambridge University Press.

Parkes, P. A. 1986. *Current Scientific Techniques in Archaeology*. London: Croom Helm.

Parkinson, William A. 2006. 'Tribal Boundaries: Stylistic Variability and Social Boundary Maintenance during the Transition to the Copper Age on the Great Hungarian Plain'. *Journal of Anthropological Archaeology* 25(1):33–58. doi: 10.1016/j.jaa.2005.06.002.

Patrick E. McGovern, Thomas L. Sever, J. Wilson Myers, Eleanor Emlen Myers, Bruce Bevan, Naomi F. Miller, S. Bottema, Hitomi Hongo, Richard H. Meadow, Peter Ian Kuniholm, S. G. E. Bowman, M. N. Leese, R. E. M. Hedges, Frederick R. Matson, Ian C. Freestone, Sarah J. Vaughan, Julian Henderson, Pamela B. Vandiver, Charles S. Tumosa, Curt W. Beck, Patricia Smith, A. M. Child, A. M. Pollard, Ingolf Thuesen and Catherine Sease. 1995. 'Science in Archaeology: A Review'. *American Journal of Archaeology* 99(1):79–142.

Patrik, L. 1985. 'Is There an Archaeological Record?' *Advances in Archaeological Method and Theory* 8:27–62.

Paynter, S., and D. Dungworth. 2011a. *Archaeological Evidence for Glassworking*. English Heritage.

- Paynter, S., and D. Dungworth. 2011b. *Archaeological Evidence for Glassworking*. English Heritage.
- Peacock, D. P. 1982. 'Towards a Model for Roman Pottery Studies'. Pp. 6–11 in *Pottery in the Roman world: an ethnoarchaeological approach*. Vol. Longman archaeology series. London: Longman.
- Peacock, D. P. S. 1969. 'Neolithic Pottery Production in Cornwall'. *Antiquity* 43(170):145–49.
- Peacock, D. P. S. and University of Southampton. 1992. *Rome in the Desert: A Symbol of Power*. Southampton: University of Southampton.
- Peacock, D. P. S. and Williams, D. F. 1986. *Amphorae and the Roman Economy: An Introductory Guide*. Vol. Longman archaeology series. London: Longman.
- Pérez-Arantegui, J., ed. 2006. 'Proceedings of the 34th International Symposium on Archaeometry'. Retrieved (<http://ifc.dpz.es/publicaciones/ebooks/id/2610>).
- Perlès, C. 1988. 'Systems of Exchange and Organization of Production in Neolithic Greece'. *Journal of Mediterranean Archaeology* 5(2):115–64.
- Perlès, C. 1992. 'Systems of Exchange and Organization of Production in Neolithic Greece.'. *Journal of Mediterranean Archaeology* 5(2):115–64.
- Pernicka, E. 2004. 'Archaeometallurgy: Examples of the Application of Scientific Methods to the Provenance of Archaeological Metal Objects'. Pp. 309–29 in *Physics methods in archaeometry*. Vol. Proceedings of the International School of Physics 'Enrico Fermi'. Amsterdam: IOS Press.
- Philip Grierson. 1959. 'Commerce in the Dark Ages: A Critique of the Evidence'. *Transactions of the Royal Historical Society* 9:123–40.
- Poblome, Jeroen, Patrick Degryse, Willy Viaene, Raoul Ottenburgs, Marc Waelkens, Roland Degeest, and Jean Naud. 2002. 'The Concept of a Pottery Production Centre. An Archaeometrical Contribution from Ancient Sagalassos'. *Journal of Archaeological Science* 29(8):873–82. doi: 10.1006/jasc.2001.0756.
- Polanyi, Karl. n.d. *Trade and Market in the Early Empires: Economies in History and Theory*. Glencoe, Ill: Free Press.
- Pollard, A. M. 2009. 'What a Long, Strange Trip It's Been: Lead Isotopes and Archaeology'. Pp. 181–89 in *From mine to microscope: advances in the study of ancient technology*. Oxford: Oxbow Books.
- Pollard, A. M., Catherine Batt, Suzanne Young, and Ben Stern. 2007. *Analytical Chemistry in Archaeology*. Cambridge: Cambridge University Press.
- Pollard, A. M., Heron, Carl, and Royal Society of Chemistry (Great Britain). 2008. *Archaeological Chemistry*. 2nd ed. Cambridge: Royal Society of Chemistry.

- Pollard, A. M., Carl Heron, and Royal Society of Chemistry (Great Britain). 2008. *Archaeological Chemistry*. 2nd ed. Cambridge: Royal Society of Chemistry.
- Ponting, M. J. 2002. 'Keeping up with the Romans? Romanisation and Copper Alloys in First Revolt Palestine'. *Institute for Archaeo-Metallurgical Studies Newsletter* 22:3-6.
- Popelka-Filcoff, Rachel S., Elizabeth J. Miksa, J. David Robertson, Michael D. Glascock, and Henry Wallace. 2008. 'Elemental Analysis and Characterization of Ochre Sources from Southern Arizona'. *Journal of Archaeological Science* 35(3):752-62. doi: 10.1016/j.jas.2007.05.018.
- Pounds, Norman John Greville. 1989. *Hearth & Home: A History of Material Culture*. Bloomington, [Ind.]: Indiana University Press.
- Price, J. and Cottam, Sally. 1998. *Romano-British Glass Vessels: A Handbook*. Vol. Practical handbooks in archaeology. York: Council for British Archaeology.
- Prudence M. Rice. 1976. 'Rethinking the Ware Concept'. *American Antiquity* 41(4):538-43.
- Prudence M. Rice. 1996. 'Recent Ceramic Analysis: 2. Composition, Production, and Theory'. *Journal of Archaeological Research* 4(3):165-202.
- Prudence M. Rice. 2009. 'Late Classic Maya Pottery Production: Review and Synthesis'. *Journal of Archaeological Method and Theory* 16(2):117-56.
- Prudence M. Rice, William Y. Adams, Joseph W. Ball, Whitney M. Davis, Timothy Earle, Robert E. Fry, Ian Hodder, L. R. V. Joesink-Mandeville, Charles C. Kolb, Masae Nishimura, Yasushi Kojo, Miguel Rivera Dorado, Barbara L. Stark and Sander E. Van Der Leeuw. 1981. 'Evolution of Specialized Pottery Production: A Trial Model [and Comments and Reply]'. *Current Anthropology* 22(3):219-40.
- Quinn, Patrick S. 2013. *Ceramic Petrography: The Interpretation of Archaeological Pottery & Related Artefacts in Thin Section*. Oxford: Archaeopress.
- Radivojević, Miljana, Thilo Rehren, Ernst Pernicka, Dušan Šljivar, Michael Brauns, and Dušan Borić. 2010. 'On the Origins of Extractive Metallurgy: New Evidence from Europe'. *Journal of Archaeological Science* 37(11):2775-87. doi: 10.1016/j.jas.2010.06.012.
- Rapp, George Robert. 2009. *Archaeomineralogy*. Vol. Natural science in archaeology. 2nd ed. Berlin: Springer.
- Raymond, Robert. 1986. *Out of the Fiery Furnace: The Impact of Metals on the History of Mankind*. University Park: Pennsylvania State UP.
- Read, Dwight W. 2007. *Artifact Classification: A Conceptual and Methodological Approach*. Walnut Creek, Calif: Left Coast Press.
- Rehder, J. E. 1994. 'Blowpipes versus Bellows in Ancient Metallurgy'. *Journal of Field Archaeology* 21(3).

Rehren, T. 2001. 'Qantir-Piramesses and the Organisation of the Egyptian Glass Industry'. Pp. 223–138 in *The social context of technological change: Egypt and the Near East, 1650-1550 B.C. : proceedings of a conference held at St Edmund Hall, Oxford, 12-14 September 2000*. Oxford: Oxbow.

Rehren, T., and M. Martinon-Torres. 2008a. 'Naturam Ars Imitata: European Brassmaking between Craft and Science'. Pp. 167–88 in *Archaeology, history and science: integrating approaches to ancient materials*. Vol. Publications of the Institute of Archaeology, University College London. Walnut Creek, CA: Left Coast Press.

Rehren, T., and M. Martinon-Torres. 2008b. 'Naturam Ars Imitata: European Brassmaking between Craft and Science'. Pp. 167–88 in *Archaeology, history and science: integrating approaches to ancient materials*. Vol. Publications of the Institute of Archaeology, University College London. Walnut Creek, CA: Left Coast Press.

Rehren, T., E. Pusch, and A. Herold. 1998a. 'Glass Coloring Works within a Copper-Centered Industrial Complex in Late Bronze Age Egypt'. Pp. 227–50 in *The prehistory & history of glassmaking technology*. Vol. *Ceramics and civilization*. Westerville, OH: American Ceramic Society.

Rehren, T., E. Pusch, and A. Herold. 1998b. 'Glass Coloring Works within a Copper-Centered Industrial Complex in Late Bronze Age Egypt'. Pp. 227–50 in *The prehistory & history of glassmaking technology*. Vol. *Ceramics and civilization*. Westerville, OH: American Ceramic Society.

Rehren, T., E. Pusch, and A. Herold. 2001. 'Qantir-Piramesses and the Organisation of the Egyptian Glass Industry'. Pp. 223–38 in *The social context of technological change: Egypt and the Near East, 1650-1550 B.C. : proceedings of a conference held at St Edmund Hall, Oxford, 12-14 September 2000*. Oxford: Oxbow.

Rehren, T., J. Schneider, and C. Bartels. 1999. 'Medieval Lead-Silver Smelting in the Siegerland, West Germany'. *Historical Metallurgy: Journal of the Historical Metallurgy Society* 33.

Renfrew, C. 1975a. 'Trade as Action at a Distance'. Pp. 3–59 in *Ancient civilization and trade*. Vol. *School of American Research advanced seminar series*. Albuquerque: University of New Mexico Press.

Renfrew, C. 1975b. 'Trade as Action at a Distance'. Pp. 3–59 in *Ancient civilization and trade*. Vol. *School of American Research advanced seminar series*. Albuquerque: University of New Mexico Press.

Renfrew, C. 2004. 'Towards a Theory of Material Engagement'. Pp. 23–31 in *Rethinking materiality: the engagement of mind with the material world*. Vol. *McDonald Institute monographs*. Cambridge: McDonald Institute for Archaeological Research.

Renfrew, C., J. E. Dixon, and J. R. Cann. 1966. 'Obsidian and Early Cultural Contact in the Near East'. *Proceedings of the Prehistoric Society* 32:30–72. doi: 10.1017/S0079497X0001433X.

Ricciardi, Paola, Philippe Colomban, Aurélie Tournié, Michele Macchiarola, and Naceur



- Ayed. 2009. 'A Non-Invasive Study of Roman Age Mosaic Glass Tesserae by Means of Raman Spectroscopy'. *Journal of Archaeological Science* 36(11):2551–59. doi: 10.1016/j.jas.2009.07.008.
- Rice, Prudence M. 1987. *Pottery Analysis: A Sourcebook*. Chicago: University of Chicago Press.
- Richard Bradley. 1982. 'The Destruction of Wealth in Later Prehistory'. *Man* 17(1):108–22.
- Robertshaw, Peter, Marilee Wood, Erik Melchiorre, Rachel S. Popelka-Filcoff, and Michael D. Glascock. 2010. 'Southern African Glass Beads: Chemistry, Glass Sources and Patterns of Trade'. *Journal of Archaeological Science* 37(8):1898–1912. doi: 10.1016/j.jas.2010.02.016.
- Roux, Valentine. 2003. 'Ceramic Standardization and Intensity of Production: Quantifying Degrees of Specialization'. *American Antiquity* 68(4):768–82.
- Rye, Owen S. 1981. *Pottery Technology: Principles and Reconstruction*. Vol. Manuals on archeology. Washington, D.C.: Taraxacum.
- S. J. Shennan and J. R. Wilkinson. 2001. 'Ceramic Style Change and Neutral Evolution: A Case Study from Neolithic Europe'. *American Antiquity* 66(4):577–93.
- Sackett, J. 1982. 'Approaches to Style in Lithic Archaeology'. *Journal of Anthropological Archaeology* 59–112. doi: 0278-4165(82)90008-3.
- Sahlins, M. 1974. 'On the Sociology of Primitive Exchange'. Pp. 185–275 in *Stone Age economics*. London: Routledge.
- Sahlins, Marshall David. 2004. *Stone Age Economics*. London: Routledge.
- Sand-Jensen, Kaj. 2007. 'How to Write Consistently Boring Scientific Literature'. *Oikos* 116(5):723–27. doi: 10.1111/j.0030-1299.2007.15674.x.
- Schick, Kathy Diane and Toth, Nicholas Patrick. 1993a. *Making Silent Stones Speak: Human Evolution and the Dawn of Technology*. London: Phoenix.
- Schick, Kathy Diane and Toth, Nicholas Patrick. 1993b. *Making Silent Stones Speak: Human Evolution and the Dawn of Technology*. London: Phoenix.
- Schiffer, M. B. 1995. 'Behavioral Chain Analysis: Activities, Organization and the Use of Space'. Pp. 103–74 in *Behavioral archaeology: first principles*. Vol. Foundations of archaeological inquiry. Salt Lake City: University of Utah Press.
- Schiffer, M. B. 2001. 'The Explanation of Long-Term Technological Change'. Pp. 215–35 in *Anthropological perspectives on technology*. Vol. Amerind Foundation New World studies series. Albuquerque: University of New Mexico Press.
- Schiffer, Michael B. 1987. 'Chapter 1: The Nature of Archaeological Evidence: Chapter 2: The Dimensions of Artifact Variability'. Pp. 3–23 in *Formation processes of the*

archaeological record. Albuquerque, N.M.: University of New Mexico Press.

Schiffer, Michael B. 1987. *Formation Processes of the Archaeological Record*. Albuquerque, N.M.: University of New Mexico Press.

Schiffer, Michael B. 2001. *Anthropological Perspectives on Technology*. Vol. Amerind Foundation New World studies series. Albuquerque: University of New Mexico Press.

Schiffer, Michael B. 2011. *Studying Technological Change: A Behavioral Approach*. Vol. Foundations of archaeological inquiry. Salt Lake City: University of Utah Press.

Schiffer, Michael B. and Miller, Andrea R. 1999a. *The Material Life of Human Beings: Artifacts, Behavior, and Communication*. London: Routledge.

Schiffer, Michael B. and Miller, Andrea R. 1999b. *The Material Life of Human Beings: Artifacts, Behavior, and Communication*. London: Routledge.

Schlanger, N. 1994. 'Mindful Technology: Unleashing the Chaîne Opératoire for an Archaeology of Mind'. Pp. 143–51 in *The ancient mind: elements of cognitive archaeology*. Vol. New directions in archaeology. Cambridge: Cambridge University Press.

Schlanger, N. 2005. 'The Chaîne Opératoire'. Pp. 25–31 in *Archaeology : the key concepts*. Routledge.

Schlanger, N., and A. Silclair. 1990. 'Technology in the Humanities'. *Archaeological Review from Cambridge* 9(1):3–167.

Schnapp, Alain. 2002. 'Between Antiquarians and Archaeologists--Continuities and Ruptures'. *Antiquity* 76(291):134–40.

Schofield, A. J. and Theoretical Archaeology Group (England). 1991. *Interpreting Artefact Scatters: Contributions to Ploughzone Archaeology*. Vol. Oxbow monograph. Oxford: Oxbow Books.

Shackley, M. 2011a. 'An Introduction to X-Ray Fluorescence (XRF) Analysis in Archaeology'. Pp. 7–44 in *X-ray fluorescence spectrometry (XRF) in geoarchaeology*. New York: Springer.

Shackley, M. 2011b. 'An Introduction to X-Ray Fluorescence (XRF) Analysis in Archaeology'. Pp. 7–44 in *X-ray fluorescence spectrometry (XRF) in geoarchaeology*. New York: Springer.

Shackley, M. Steven. 2011. *X-Ray Fluorescence Spectrometry (XRF) in Geoarchaeology*. New York: Springer.

Shanks, Michael. n.d. 'The Life of an Artefact in an Interpretive Archaeology'. Retrieved (<http://documents.stanford.edu/michaelshanks/229>).

Shennan, S. 1993. 'Commodities, Transactions and Growth in the Central European Early Bronze Age'. *European Journal of Archaeology* 1(2):59–72.

- Shennan, S. 1999. 'Cost, Benefit and Value in the Organization of Early European Copper Production'. *Antiquity* 73(280):352-63.
- Shennan, Stephen. 1997. *Quantifying Archaeology*. 2nd ed. Iowa City: University of Iowa Press.
- Shennan, Stephen. 2002. *Genes, Memes and Human History: Darwinian Archaeology and Cultural Evolution*. London: Thames & Hudson.
- Sherratt, A. G., and E. S. Sherratt. 1991. 'From Luxuries to Commodities: The Nature of Mediterranean Bronze Age Trading Systems'. Pp. 351-86 in *Bronze age trade in the Mediterranean: papers presented at the Conference held at Rewley House, Oxford, in December 1989*. Vol. *Studies in Mediterranean archaeology*. Jonsered: Åstrom.
- Sherratt, S. 1999. 'Eppur Si Muove: Pots, Markets, and Values in the Second-Millennium Mediterranean'. Pp. 163-211 in *The complex past of pottery: production, circulation and consumption of Mycenaean and Greek pottery (sixteenth to early fifth centuries BC) : proceedings of the ARCHON international conference, held in Amsterdam, 8-9 November 1996*. Amsterdam: J.C. Gieben.
- Shortland, A. J. 2000. 'The Number, Extent and Distribution of the Vitreous Materials Workshops at Amarna'. *Oxford Journal of Archaeology* 19(2):115-34. doi: 10.1111/1468-0092.00104.
- Shortland, A. J. 2004. 'Hopeful Monsters? Invention and Innovation in the Archaeological Record'. Pp. 1-11 in *Invention and innovation: the social context of technological change, 2: Egypt, the Aegean and the Near East, 1650-1150 BC*. Oxford: Oxbow Books.
- Shortland, A., P. Nicholson, and C. Jackson. 2001. 'Glass and Faience at Amarna: Different Methods of Both Supply for Production and Subsequent Distribution'. in *The social context of technological change: Egypt and the Near East, 1650-1550 B.C. : proceedings of a conference held at St Edmund Hall, Oxford, 12-14 September 2000*. Oxford: Oxbow.
- Sigaut, F. 2002a. 'Technology'. Pp. 420-59 in *Companion encyclopedia of anthropology*. Vol. *Routledge world reference*. London: Routledge.
- Sigaut, F. 2002b. 'Technology'. Pp. 420-59 in *Companion encyclopedia of anthropology*. Vol. *Routledge world reference*. London: Routledge.
- Sillar, B. 1997. 'Reputable Pots and Disreputable Potters: Individual and Community Choice in Present-Day Pottery Production and Exchange in the Andes'. Pp. 1-20 in *Not so much a pot, more a way of life: current approaches to artefact analysis in archaeology*. Vol. *Oxbow monograph*. Oxford: Oxbow.
- Sillar, B., and M. S. Tite. 2000. 'The Challenge of "Technological Choices" for Materials Science Approaches in Archaeology'. *Archaeometry* 42(1):2-20. doi: 10.1111/j.1475-4754.2000.tb00863.x.
- SILLAR, B., and M. S. TITE. 2000a. 'THE CHALLENGE OF 'TECHNOLOGICAL CHOICES' FOR MATERIALS SCIENCE APPROACHES IN ARCHAEOLOGY'. *Archaeometry* 42(1):2-20. doi: 10.1111/j.1475-4754.2000.tb00863.x.

SILLAR, B., and M. S. TITE. 2000b. 'THE CHALLENGE OF 'TECHNOLOGICAL CHOICES' FOR MATERIALS SCIENCE APPROACHES IN ARCHAEOLOGY'. *Archaeometry* 42(1):2–20. doi: 10.1111/j.1475-4754.2000.tb00863.x.

Sillar, Bill. 2009. 'The Social Agency of Things? Animism and Materiality in the Andes'. *Cambridge Archaeological Journal* 19(03). doi: 10.1017/S0959774309000559.

Skibo, J. M., and M. B. Schiffer. 2001. 'Understanding Artifact Variability and Change: A Behavioral Framework'. Pp. 139–49 in *Anthropological perspectives on technology*. Vol. Amerind Foundation New World studies series. Albuquerque: University of New Mexico Press.

Sommer, U. 1990. 'Dirt Theory, or Archaeological Sites Seen as Rubbish Heaps'. *Journal of Theoretical Archaeology* 1:47–60.

Speakman, Robert J., Nicole C. Little, Darrell Creel, Myles R. Miller, and Javier G. Iñáñez. 2011. 'Sourcing Ceramics with Portable XRF Spectrometers? A Comparison with INAA Using Mimbres Pottery from the American Southwest'. *Journal of Archaeological Science* 38(12):3483–96. doi: 10.1016/j.jas.2011.08.011.

Staski, Edward and Sutro, Livingston D. 1991. *The Ethnoarchaeology of Refuse Disposal*. Vol. Anthropological research papers. [Tempe, Ariz.]: Arizona State University.

Stein, Gil J., David Hollander, and Mark Schwartz. 1999a. 'Reconstructing Mesopotamian Exchange Networks in the 4th Millennium BC: Geochemical and Archaeological Analyses of Bitumen Artifacts from Hacinebi Tepe, Turkey'. *Paléorient* 25(1):67–82. doi: 10.3406/paleo.1999.989.

Stein, Gil J., David Hollander, and Mark Schwartz. 1999b. 'Reconstructing Mesopotamian Exchange Networks in the 4th Millennium BC: Geochemical and Archaeological Analyses of Bitumen Artifacts from Hacinebi Tepe, Turkey'. *Paléorient* 25(1):67–82. doi: 10.3406/paleo.1999.989.

Stephen Plog. 1983. 'Analysis of Style in Artifacts'. *Annual Review of Anthropology* 12:125–42.

Stephen Plog and Jeffrey L. Hantman. 1990. 'Chronology Construction and the Study of Prehistoric Culture Change'. *Journal of Field Archaeology* 17(4):439–56.

Stos-Gale, Z. 2009. 'Across the Wine Dark Seas.... Sailor Tinkers and Royal Cargoes in the Late Bronze Age Eastern Mediterranean.' Pp. 163–80 in *From mine to microscope: advances in the study of ancient technology*. Oxford: Oxbow Books.

Strand, E. A., K. M. Frei, M. Gleba, U. Mannering, M. L. Nosch, and I. Skals. 2010. 'Old Textiles -- New Possibilities'. *European Journal of Archaeology* 13(2):149–73. doi: 10.1177/1461957110365513.

Thompson, M. 1979. *Rubbish Theory: The Creation and Destruction of Value*. Oxford: Oxford University Press.

Thomson, Roy and Mould, Quita. 2011. *Leather Tanneries: The Archaeological Evidence*.

London: Archetype.

Thornton, C. 2009. 'Archaeometallurgy'. Pp. 25–33 in *Metals and societies: studies in honour of Barbara S. Ottaway*. Vol. *Universitätsforschungen zur prähistorischen Archäologie*. Bonn: R. Habelt.

Thornton, Christopher P., C. C. Lamberg-Karlovsky, Martin Liezers, and Suzanne M. M. Young. 2002. 'On Pins and Needles: Tracing the Evolution of Copper-Base Alloying at Tepe Yahya, Iran, via ICP-MS Analysis of Common-Place Items'. *Journal of Archaeological Science* 29(12):1451–60. doi: 10.1006/jasc.2002.0809.

Thorpe, R. S. 1991. 'The Geological Sources and Transport of the Bluestones of Stonehenge, Wiltshire, U.K'. *Proceedings of the Prehistoric Society* 103–57.

Tilley, C., S. Hamilton, S. Harrison, and E. Anderson. 2000. 'Nature, Culture, Clitter: Distinguishing Between Cultural and Geomorphological Landscapes; The Case of Hilltop Tors in South-West England'. *Journal of Material Culture* 5(2):197–224. doi: 10.1177/135918350000500204.

Tilley, Christopher Y. 2006. *Handbook of Material Culture*. London: SAGE.

Tite, M. S. 2001. 'Overview - Materials Study in Archaeology'. Pp. 443–48 in *Handbook of archaeological sciences*. Chichester: John Wiley.

Tite, M. S. 2002. 'Archaeological Collections: Invasive Sampling versus Object Integrity'. *Papers from the Institute of Archaeology: PIA* 13:1–6.

Tomber, R., Dore, John, English Heritage, British Museum, National Roman Fabric Reference Collection, and Museum of London. 1998. *The National Roman Fabric Reference Collection: A Handbook*. Vol. *MoLAS monograph*. London: Museum of London Archaeology Service.

Torrence, Robin and Leeuw, Sander Ernst van der. 1989. *What's New?: A Closer Look at the Process of Innovation*. Vol. *One world archaeology*. London: Unwin Hyman.

Tubb, Kathryn Walker. 2007. 'Irreconcilable Differences? Problems with Unprovenanced Antiquities'. *Papers from the Institute of Archaeology* 18. doi: 10.5334/pia.294.

Tykot, R. H. 2004. 'Archaeological Provenance Studies'. Pp. 407–32 in *Physics methods in archaeometry*. Vol. *Proceedings of the International School of Physics 'Enrico Fermi'*. Amsterdam: IOS Press.

Uda, M., G. Demortier, I. Nakai, and International Symposium on X-ray Archaeometry. 2005. *X-Rays for Archaeology*. Dordrecht: Springer.

Valentine Roux. 2003. 'Ceramic Standardization and Intensity of Production: Quantifying Degrees of Specialization'. *American Antiquity* 68(4):768–82. doi: 10.2307/3557072.

Van der Leeuw, Sander E., Dick A. Papousek, and Anick Coudart. 1992. 'Technical Traditions and Unquestioned Assumptions: The Case of Pottery in Michoacan'. *Techniques & Culture* (17–18). doi: 10.4000/tc.691.

- Van Der Leuw, S. 1999. 'Some Notes from the Potter's Point of View'. Pp. 115–32 in *The complex past of pottery: production, circulation and consumption of Mycenaean and Greek pottery (sixteenth to early fifth centuries BC) : proceedings of the ARCHON international conference, held in Amsterdam, 8-9 November 1996*. Amsterdam: J.C. Gieben.
- Vanzetti et al., A. 2010. 'The Iceman as a Burial'. *Antiquity* 84(325):681–92.
- Vidale, M. 1998. 'Operational Sequences beyond Linearity'. Pp. 179–84 in *Papers from the EAA Third Annual Meeting at Ravenna 1997*. Vol. BAR international series. Oxford: Archaeopress.
- Wagner, D. 2008. 'Introductory Orientations: The Traditional Chinese Iron Industry in Recent Centuries'. Pp. 5–72 in *Science and civilisation in China: Volume 5: Chemistry and chemical technology*. London: Cambridge University Press.
- Walker, W. 1995. 'Ceremonial Trash?' Pp. 67–79 in *Expanding archaeology*. Salt Lake City: University of Utah Press.
- Weigand, P. C. 1977. 'Turquoise Sources and Source Analysis: Mesoamerica and the Southwestern USA'. Pp. 15–34 in *Exchange systems in prehistory*. Vol. Studies in archeology. New York: Academic Press.
- Weiner, Annette B. 1992. *Inalienable Possessions: The Paradox of Keeping-While-Giving*. Berkeley: University of California Press.
- Wendrich, W. 1999. *The World According to Basketry*.
- Wheat, J. B. 1991. 'Ceramic Classification: Bradfield and Shepard, Types and Varieties'. Pp. 121–31 in *The ceramic legacy of Anna O. Shepard*. Niwot, Colo: University Press of Colorado.
- White, J. P., and D. H. Thomas. 1972. 'What Mean These Stones? Ethnotaxonomic Models and Archaeological Interpretations in the New Guinea Highlands'. Pp. 275–308 in *Models in archaeology*, edited by D. L. Clarke.
- White, P. 2006. 'Producing the Record'. Pp. 410–25 in *Archaeology in practice: a student guide to archaeological analyses*. Malden, MA: Blackwell.
- Whittaker, John C. 1994. *Flintknapping: Making and Understanding Stone Tools*. Austin: University of Texas Press.
- Widemann, F. 1982. 'Why Is Archaeometry so Boring for Archaeologists?' Pp. 29–36 in *Archaeological ceramics : papers presented at a seminar on Ceramics as Archaeological Material held at the Smithsonian Institution, Washington, D.C. and the National Bureau of Standards, Gaithersburg, Maryland, 29 September-1 October 1980, one of the Smithsonian Institution/National Bureau of Standards seminars on the Application of the Materials and Measurement Sciences to Archaeology and Museum Conservation*. Smithsonian Institution Press.
- Wilson, D. C. 1994. 'Identification and Assessment of Secondary Refuse Aggregates'. *Journal of Archaeological Method and Theory* 1(1):41–68.

- Wilson, L., and A. M. Pollard. 2001. 'The Provenance Hypothesis'. Pp. 507–17 in Handbook of archaeological sciences. Chichester: John Wiley.
- Woodward, Ann. 2002. 'Beads and Beakers: Heirlooms and Relics in the British Early Bronze Age'. *Antiquity* 76(294):1040–47.
- Woolf, G. 1999. 'World-Systems Analysis and the Roman Empire'. *Journal of Roman Archaeology* 3:44–58.
- Wylie, A. 2002. 'The Typology Debate'. Pp. 42–56 in *Thinking from things: essays in the philosophy of archaeology*. Berkeley, Calif: University of California Press.
- Young, M. L., F. Casadio, S. Schnepf, E. Pearlstein, J. D. Almer, and D. R. Haeffner. 2010. 'Non-Invasive Characterization of Manufacturing Techniques and Corrosion of Ancient Chinese Bronzes and a Later Replica Using Synchrotron X-Ray Diffraction'. *Applied Physics A* 100(3):635–46. doi: 10.1007/s00339-010-5646-8.