

ARCLG109: Archaeometallurgy II: Metallic Artefacts: John Frederick Merkel

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@book{Aitchison, Leslie_1960, title={A history of metals}, publisher={Macdonald & Evans}, author={Aitchison, Leslie}, year={1960} }

@book{Aubert, Jacques F. Aubert, Liliane_2001, address={Paris}, title={Bronzes et or Egyptiens}, volume={Contribution à l'égyptologie}, publisher={Cybèle}, author={Aubert, Jacques F. and Aubert, Liliane}, year={2001} }

@book{Avner, Sidney H._1974a, address={New York}, edition={2d ed}, title={Introduction to physical metallurgy}, publisher={McGraw-Hill}, author={Avner, Sidney H.}, year={1974} }

@book{Avner, Sidney H._1974b, address={New York}, edition={2d ed}, title={Introduction to physical metallurgy}, publisher={McGraw-Hill}, author={Avner, Sidney H.}, year={1974} }

@book{Bar-Adon, Pesah_1980, address={Jerusalem}, title={The cave of the treasure: the finds from the caves in Nahal Mishmar}, volume={Judean Desert studies}, publisher={Israel Exploration Society}, author={Bar-Adon, Pesah}, year={1980} }

@book{Bayley, J. Crossley, David W. Ponting, Matthew_Historical Metallurgy Society_2008a, address={London}, title={Metals and metalworking: a research framework for archaeometallurgy}, volume={Occasional publication / Historical Metallurgy Society}, publisher={Historical Metallurgy Society}, author={Bayley, J. and Crossley, David W. and Ponting, Matthew and Historical Metallurgy Society}, year={2008} }

@book{Bayley, J. Crossley, David W. Ponting, Matthew_Historical Metallurgy Society_2008b, address={London}, title={Metals and metalworking: a research framework for archaeometallurgy}, volume={Occasional publication / Historical Metallurgy Society}, publisher={Historical Metallurgy Society}, author={Bayley, J. and Crossley, David W. and Ponting, Matthew and Historical Metallurgy Society}, year={2008} }

@book{Bayley, J. Society of Antiquaries of London_2004, address={London}, title={Roman brooches in Britain: a technological and typological study based on the Richborough Collection}, volume={Reports of the Research Committee of the Society of Antiquaries}, publisher={Society of Antiquaries of London}, author={Bayley, J. and Society of Antiquaries of London}, year={2004} }

@article{Blakelock_McDonnell_2007, address={Sheffield}, title={A review of metallographic analyses of early medieval knives}, volume={41}, url={https://contentstore.cla.co.uk//secure/link?id=feb26fdc-4a36-e711-80c9-005056af40}

99}, number={1}, journal={Historical Metallurgy: Journal of Historical Metallurgy}, publisher={Historical Metallurgy Society}, author={Blakelock, E and McDonnell, G}, year={2007}, pages={40-56} }

@article{Branigan_1969, title={Early Aegean Hoards of Metalwork}, volume={64}, DOI={10.1017/S0068245400014489}, journal={The Annual of the British School at Athens}, author={Branigan, Keith}, year={1969}, month=nov, pages={1-11} }

@inbook{Bray_2000, address={London}, title={Malagana and the goldworking tradition of Southwest Columbia}, url={https://contentstore.cla.co.uk//secure/link?id=85a394e7-6336-e711-80c9-005056af4099}, booktitle={Precolumbian gold: technology, style and iconography}, publisher={British Museum Press}, author={Bray, W}, year={2000}, pages={94-111} }

@book{Callister, William D._Rethwisch, David G._2007, address={New York}, edition={7th ed}, title={Materials science and engineering: an introduction}, publisher={Wiley}, author={Callister, William D. and Rethwisch, David G.}, year={2007} }

@book{Callister, William D._Rethwisch, David G._2011, address={Hoboken, N.J.}, edition={8th ed}, title={Materials science and engineering}, publisher={Wiley}, author={Callister, William D. and Rethwisch, David G.}, year={2011} }

@inbook{Chase_1974, address={Washington}, title={Comparative analysis of archaeological bronzes}, volume={Advances in chemistry series}, url={https://contentstore.cla.co.uk//secure/link?id=87e3d2ae-7036-e711-80c9-005056af4099}, booktitle={Archaeological chemistry: a symposium sponsored by the Division of the History of Chemistry at the 165th meeting of the American Chemical Society, Dallas, Tex., April 9-10, 1973}, publisher={American Chemical Society}, author={Chase, W.T.}, year={1974}, pages={148-185} }

@inbook{Chase_1979, address={Tokyo}, title={Solid samples from metallic antiquities and their examination.}, booktitle={International symposium on the conservation and restoration of cultural property: cultural property and analytical chemistry}, publisher={Tokyo National Research Institute of Cultural Properties}, author={Chase, W.T.}, year={1979}, pages={73-109} }

@article{Coles_1970, address={London}, title={Metal analysis, and the early Scottish Bronze Age}, volume={35}, DOI={10.1017/S0079497X00013517}, journal={Proceedings of the Prehistoric Society}, publisher={Prehistoric Society}, author={Coles, J}, year={1970}, month=feb, pages={330-345} }

@inbook{Corfield_1982, address={[[Greenwich]]}, title={Radiography of archaeological ironwork}, volume={Maritime monographs and reports}, url={https://contentstore.cla.co.uk//secure/link?id=7ad4e06f-7536-e711-80c9-005056af4099}, booktitle={Conservation of iron}, publisher={Trustees of the National Maritime Museum}, author={Corfield, M}, year={1982}, pages={8-14} }

@article{Craddock_1979, address={London}, title={The copper alloys of the Medieval Islamic world - inheritors of the classical tradition}, volume={11},

DOI={10.1080/00438243.1979.9979750}, number={1}, journal={World Archaeology}, publisher={Routledge & Kegan Paul}, author={Craddock, P. T.}, year={1979}, month=june, pages={68-79} }

@article{Craddock_1985a, address={Oxford}, title={Medieval copper alloy production and West African bronze analyses - Part 1}, volume={27}, DOI={10.1111/j.1475-4754.1985.tb00344.x}, number={1}, journal={Archaeometry}, publisher={Oxford University Press}, author={Craddock, P. T.}, year={1985}, month=feb, pages={17-41} }

@book{Craddock, P. T._1995a, address={Edinburgh}, title={Early metal mining and production}, publisher={Edinburgh University Press}, author={Craddock, P. T.}, year={1995} }

@book{Craddock, P. T._1995b, address={Edinburgh}, title={Early metal mining and production}, publisher={Edinburgh University Press}, author={Craddock, P. T.}, year={1995} }

@article{Craddock_Picton_1986, address={Oxford}, title={Medieval copper alloy production and West African bronze analyses - Part 2}, volume={28}, DOI={10.1111/j.1475-4754.1986.tb00371.x}, number={1}, journal={Archaeometry}, publisher={Oxford University Press}, author={Craddock, P. T. and Picton, J.}, year={1986}, month=feb, pages={3-32} }

@article{Craddock, title={The composition of the copper alloys used by the Greek, Etruscan and Roman civilizations 1. The Greeks before the archaic period}, volume={3}, url={http://www.sciencedirect.com/science/article/pii/0305440376900790}, number={2}, journal={Journal of Archaeological Science}, author={Craddock, Paul T.}, pages={93-113} }

@article{Craddock, title={The composition of the copper alloys used by the Greek, etruscan and Roman civilisations: 2. The Archaic, Classical and Hellenistic Greeks}, volume={4}, url={http://www.sciencedirect.com/science/article/pii/0305440377900589}, number={2}, journal={Journal of Archaeological Science}, author={Craddock, Paul T.}, pages={103-123} }

@article{Craddock, title={The composition of the copper alloys used by the Greek, Etruscan and Roman civilizations: 3. The Origins and Early Use of Brass}, volume={5}, url={http://www.sciencedirect.com/science/article/pii/0305440378900158}, number={1}, journal={Journal of Archaeological Science}, author={Craddock, Paul T.}, pages={1-16} }

@inbook{Craddock_1985b, address={Boston, Mass}, title={Three thousand years of copper alloys: from the Bronze Age to the Industrial Revolution}, booktitle={Application of science in examination of works of art: proceedings of the seminar September 7-9, 1983}, publisher={Research Laboratory, Museum of Fine Arts}, author={Craddock, P.T.}, year={1985}, pages={59-67} }

@inbook{Craddock_1991, address={London}, title={The composition of Iberian Bronze Age metalwork in the British Museum}, volume={Occasional paper / British Museum}, url={https://contentstore.cla.co.uk//secure/link?id=d6115d65-7336-e711-80c9-005056af4}

099}, booktitle={Aspects of early metallurgy}, publisher={British Museum},
author={Craddock, P.T.}, year={1991}, pages={51-62} }

@inbook{Craddock_Wallis_Merkel_2001, address={Oxford}, title={The rapid qualitative
analysis of groups of metalwork: Making a dream come true.},
url={https://contentstore.cla.co.uk//secure/link?id=c1193fd0-8136-e711-80c9-005056af40
99}, booktitle={Pattern and purpose in insular art: proceedings of the Fourth International
Conference on Insular Art, held at the National Museum & Gallery, Cardiff 3-6 September
1998}, publisher={Oxbow Books}, author={Craddock, P.T. and Wallis, J.M. and Merkel,
J.F.}, year={2001}, pages={117-124} }

@book{Cronyn, J. M. _Robinson, W. S. _1990, address={London}, title={The elements of
archaeological conservation}, DOI={10.4324/9780203169223}, publisher={Routledge},
author={Cronyn, J. M. and Robinson, W. S.}, year={1990} }

@article{Demortier, title={Review of the recent applications of high energy microprobes
in arts and archaeology}, volume={54},
url={http://www.sciencedirect.com/science/article/pii/0168583X9195535L},
number={1-3}, journal={Nuclear Instruments and Methods in Physics Research Section
B: Beam Interactions with Materials and Atoms}, author={Demortier, G.},
pages={334-345} }

@book{Denker, Andrea_COST Action G8 (Project)_European Cooperation in the Field of
Scientific and Technical Research (Organization)_2006, address={Stuttgart},
title={Non-destructive testing and analysis of museum objects}, publisher={Fraunhofer
IRB}, author={Denker, Andrea and COST Action G8 (Project) and European Cooperation in
the Field of Scientific and Technical Research (Organization)}, year={2006} }

@book{Deshayes, Jean_Institut français d'archéologie de Beyrouth_1960,
address={Paris}, title={Les outils de bronze, de l'Indus au Danube: (IVe au IIe
mille'naire)}, volume={Bibliotheque arche'ologique et historique / Institut Français
d'Arche'ologie de Beyrouth}, publisher={Librairie Orientaliste Paul Geuthner},
author={Deshayes, Jean and Institut français d'archéologie de Beyrouth}, year={1960} }

@book{Dickinson, Tania Marguerite_Härke, Heinrich G. H._1992, address={London},
title={Early Anglo-Saxon shields}, volume={Archaeologia}, publisher={Society of
Antiquaries}, author={Dickinson, Tania Marguerite and Härke, Heinrich G. H.},
year={1992} }

@book{Doran, J. E._Hodson, Frank Roy_1975a, address={Edinburgh}, title={Mathematics
and computers in archaeology}, publisher={Edinburgh University Press}, author={Doran,
J. E. and Hodson, Frank Roy}, year={1975} }

@book{Doran, J. E._Hodson, Frank Roy_1975b, address={Edinburgh}, title={Mathematics
and computers in archaeology}, publisher={Edinburgh University Press}, author={Doran,
J. E. and Hodson, Frank Roy}, year={1975} }

@article{Dungworth_1997, address={York [England]}, title={Iron Age and Roman
Copper Alloys from Northern Britain}, volume={2}, DOI={10.11141/ia.2.2},
journal={Internet archaeology}, publisher={Internet Archaeology}, author={Dungworth,

David}, year={1997}, month=mar }

@book{Forsyth, Hazel_Museum of London_2005, address={London}, title={Toys, trifles & trinkets: base-metal miniatures from London 1200-1800}, publisher={Unicorn}, author={Forsyth, Hazel and Museum of London}, year={2005} }

@article{Freestone_LaNiece_Meeks, address={Philadelphia, Pa}, title={A Bronze Statuette of Minerva: A study in mineralogical provenancing}, volume={3}, number={1}, journal={MASCA journal}, publisher={Museum Applied Science Center for Archaeology, University Museum, University of Pennsylvania}, author={Freestone, I and LaNiece, S.C. and Meeks, N.D.}, pages={10-12} }

@inbook{Godfrey_Vizcaino_McDonnell_2003, address={Aarhus}, title={The role of Phosphorus in early ironworking}, volume={Acta Jutlandica}, booktitle={Prehistoric and medieval direct iron smelting in Scandinavia and Europe: aspects of technology and society}, publisher={Aarhus University Press}, author={Godfrey, E.G. and Vizcaino, A and McDonnell, J.G.}, year={2003}, pages={191-194} }

@article{Hamilton_1991, address={Philadelphia, Pa}, title={Metallurgical analysis and the Bronze Age of Bohemia: or, Are cultural alloys real?}, volume={5}, journal={Archeomaterials}, publisher={Archeomaterials}, author={Hamilton, E}, year={1991}, pages={75-98} }

@article{Hatcher_Tite_Walsh_1995, address={Oxford}, title={A comparison of inductively-coupled plasma emission spectrometry and atomic absorption spectrometry analysis on standard reference silicate materials and ceramics}, volume={37}, DOI={10.1111/j.1475-4754.1995.tb00728.x}, number={1}, journal={Archaeometry}, publisher={Oxford Oxford University}, author={Hatcher, H. and Tite, M. S. and Walsh, J. N.}, year={1995}, month=feb, pages={83-94} }

@book{Henderson, Jon C._2007a, address={London}, title={The Atlantic Iron Age: settlement and identity in the first millennium BC}, publisher={Routledge}, author={Henderson, Jon C.}, year={2007} }

@book{Henderson, Jon C._2007b, address={London}, title={The Atlantic Iron Age: settlement and identity in the first millennium BC}, publisher={Routledge}, author={Henderson, Jon C.}, year={2007} }

@book{Hennessy, John Basil_Colt Archaeological Institute_1967, address={London}, title={The foreign relations of Palestine during the Early Bronze Age}, volume={Publications / Colt Archaeological Institute}, publisher={Quaritch}, author={Hennessy, John Basil and Colt Archaeological Institute}, year={1967} }

@book{Hobbs, Richard_Honeycombe, Celia_Watkins, Sarah C._2002, address={Stroud}, title={Guide to conservation for metal detectorists}, publisher={Tempus}, author={Hobbs, Richard and Honeycombe, Celia and Watkins, Sarah C.}, year={2002} }

@inbook{Hook_Craddock_1996, address={London}, title={The Scientific Analysis of the copper-alloy lamps: Aspects of Classical Alloying Practices}, url={https://contentstore.cla.co.uk//secure/link?id=5d3060ba-6336-e711-80c9-005056af4}

099}, booktitle={A catalogue of the lamps in the British Museum: 4: Lamps of metal and stone, and lamp-stands}, publisher={Published for the Trustees of the British Museum by British Museum Publications}, author={Hook, D and Craddock, P.T.}, year={1996}, pages={144-163} }

@article{Hughes_Cowell_Craddock_1976, address={Oxford}, title={Atomic absorption techniques in archaeology}, volume={18}, DOI={10.1111/j.1475-4754.1976.tb00141.x}, number={1}, journal={Archaeometry}, publisher={Oxford Oxford University}, author={Hughes, M. J. and Cowell, M. R. and Craddock, P. T.}, year={1976}, month=feb, pages={19-37} }

@article{Hughes_Northover_Staniaszek_1982a, address={Oxford}, title={Problems in the analysis of leaded bronze alloys in ancient artefacts}, volume={1}, DOI={10.1111/j.1468-0092.1982.tb00320.x}, number={3}, journal={Oxford Journal of Archaeology}, publisher={Basil Blackwell}, author={Hughes, M. J. and Northover, J. P. and Staniaszek, B. E. P.}, year={1982}, month=nov, pages={359-364} }

@article{Hughes_Northover_Staniaszek_1982b, address={Oxford}, title={Problems in the analysis of leaded bronze alloys in ancient artefacts}, volume={1}, DOI={10.1111/j.1468-0092.1982.tb00320.x}, number={3}, journal={Oxford Journal of Archaeology}, publisher={Basil Blackwell}, author={Hughes, M. J. and Northover, J. P. and Staniaszek, B. E. P.}, year={1982}, month=nov, pages={359-364} }

@book{Humphrey, John William_Oleson, John Peter_Sherwood, Andrew N._1998, address={London}, title={Greek and Roman technology: a sourcebook : annotated translations of Greek and Latin texts and documents}, publisher={Routledge}, author={Humphrey, John William and Oleson, John Peter and Sherwood, Andrew N.}, year={1998} }

@book{Junghans, Siegfried_Sangmeister, Edward_Schröder, Manfred_Römisch-Germanisches Zentralmuseum Mainz_1968, address={Berlin}, title={Kupfer und Bronze in der frühen Metallzeit Europas}, volume={Studien zu den Anfängen der Metallurgie}, publisher={Gebr. Mann}, author={Junghans, Siegfried and Sangmeister, Edward and Schröder, Manfred and Römisch-Germanisches Zentralmuseum Mainz}, year={1968} }

@book{Kenyon, Kathleen Mary_Bennett, C.-M._British School of Archaeology in Jerusalem_1965, address={London}, title={Excavations at Jericho: Vol.2: The tombs excavated in 1955-8}, publisher={British School of Archaeology in Jerusalem}, author={Kenyon, Kathleen Mary and Bennett, C.-M. and British School of Archaeology in Jerusalem}, year={1965} }

@inbook{Lambert_1997, address={Reading, Mass}, title={Metals}, volume={Helix books}, url={https://contentstore.cla.co.uk//secure/link?id=d366ebde-4d36-e711-80c9-005056af4099}, booktitle={Traces of the past: unraveling the secrets of archaeology through chemistry}, publisher={Addison-Wesley}, author={Lambert, J.B.}, year={1997}, pages={168-213} }

@inbook{Lang_1995, address={Oxford}, title={A Metallographic Examination of Eight Roman Daggers from Britain}, volume={Oxbow monograph},

url={<https://contentstore.cla.co.uk//secure/link?id=28b158a6-8f36-e711-80c9-005056af4099>}, booktitle={Sites and sights of the Iron Age: essays on fieldwork and museum research presented to Ian Mathieson Stead}, publisher={Oxbow}, author={Lang, J}, year={1995}, pages={119-132} }

@inbook{Lang_Ager_1989, address={Oxford}, title={Swords of the Anglo-Saxon and Viking Periods in the British Museum: a radiographic study}, volume={Monograph / Oxford University Committee for Archaeology}, url={<https://contentstore.cla.co.uk//secure/link?id=d3c78fbe-7736-e711-80c9-005056af4099>}, booktitle={Weapons and warfare in Anglo-Saxon England}, publisher={Oxford University Committee for Archaeology}, author={Lang, J and Ager, B}, year={1989}, pages={85-122} }

@article{Lang_1988, address={London}, title={Study of the metallography of some Roman swords}, volume={19}, DOI={10.2307/526199}, journal={Britannia}, publisher={Society for the Promotion of Roman Studies}, author={Lang, Janet}, year={1988}, pages={199-216} }

@inbook{Maddin_Merkel_1990, address={Ozieri}, title={Metallographic and statistical analyses}, volume={Quaderni / Italy. Soprintendenza ai beni archeologici per le provincie di Sassari e Nuoro}, booktitle={Analisi metallurgiche e statistiche sui lingotti di rame della Sardegna: Metallographic and statistical analyses of copper ingots from Sardinia}, publisher={Il Torchietto}, author={Maddin, R and Merkel, J}, year={1990}, pages={42-199} }

@article{Maddin_Wheeler_Muhly_1980, address={London}, title={Distinguishing artifacts made of native copper}, volume={7}, DOI={10.1016/S0305-4403(80)80025-2}, number={3}, journal={Journal of archaeological science}, publisher={Academic Press}, author={Maddin, R. and Wheeler, T. Stech and Muhly, J.D.}, year={1980}, pages={211-255} }

@book{Manning, W. H. _British Museum_1985, address={London}, title={Catalogue of the Romano-British iron tools, fittings and weapons in the British Museum}, publisher={British Museum Publications}, author={Manning, W. H. and British Museum}, year={1985} }

@inbook{Martinon-Torres_2008, address={Walnut Creek, CA}, title={Why should archaeologists take history and science seriously?}, volume={Publications of the Institute of Archaeology, University College London}, url={<http://www.ucl.eblib.com/patron/FullRecord.aspx?p=677776>}, booktitle={Archaeology, history and science: integrating approaches to ancient materials}, publisher={Left Coast Press}, author={Martinon-Torres, M}, year={2008}, pages={15-36} }

@book{McCreight, Tim_1991, address={Worcester, Mass}, edition={Rev. ed}, title={The complete metalsmith: an illustrated handbook}, publisher={Davis}, author={McCreight, Tim}, year={1991} }

@inbook{McDonnell_Starley_Weimer_2002, address={York}, title={The Metallurgy of the Knives}, volume={Archaeology of York. v. 17, Small finds}, url={<http://www.yorkarchaeology.co.uk/wp-content/uploads/2015/05/AY17-15-Medieval-Fi>

nds-from-York.pdf}, booktitle={Craft, industry and everyday life: finds from medieval York}, publisher={Council for British Archaeology}, author={McDonnell, J.G. and Starley, D. and Weimer, K.}, year={2002}, pages={2751-2799} }

@book{Meyer-Roudet, H el ene_Barrandon, Jean-No el_1999, address={Paris}, title={A la recherche du m etal perdu: nouvelles technologies dans la restauration des m etaux arch eologiques}, publisher={Errance}, author={Meyer-Roudet, H el ene and Barrandon, Jean-No el}, year={1999} }

@book{Moorey, P. R. S._1994, address={Oxford}, title={Ancient Mesopotamian materials and industries: the archaeological evidence}, publisher={Clarendon Press}, author={Moorey, P. R. S.}, year={1994} }

@book{Nicholson, Paul T._Shaw, Ian_2000, address={Cambridge}, title={Ancient Egyptian materials and technology}, publisher={Cambridge University Press}, author={Nicholson, Paul T. and Shaw, Ian}, year={2000} }

@article{Notis_2002, title={A ghost story: remnant structures in corroded ancient iron objects}, volume={712}, url={http://www.lehigh.edu/~inarcmet/papers/Notis%202002.pdf}, journal={Materials issues in art and archaeology VI: symposium held Nov 26-30, 2001, in Boston, MA}, publisher={Materials Research Society (May 2002)}, author={Notis, Michael R.}, year={2002}, pages={259-267} }

@inbook{Oddy_1996, address={Bloomington}, title={Jewelry under the microscope. A Conservator's Guide to Cataloguing.}, booktitle={Ancient jewelry and archaeology}, publisher={Indiana University Press}, author={Oddy, A}, year={1996}, pages={185-197} }

@book{Pearce, Mark_2007a, address={London}, title={Bright blades and red metal: essays on north Italian prehistoric metalwork}, volume={Accordia specialist studies on Italy}, publisher={Accordia Research Institute, University of London}, author={Pearce, Mark}, year={2007} }

@book{Pearce, Mark_2007b, address={London}, title={Bright blades and red metal: essays on north Italian prehistoric metalwork}, volume={Accordia specialist studies on Italy}, publisher={Accordia Research Institute, University of London}, author={Pearce, Mark}, year={2007} }

@inbook{Pernicka_2004, address={Amsterdam}, title={Archaeometallurgy: Examples of the application of scientific methods to the provenance of archaeological metal objects.}, volume={Proceedings of the International School of Physics 'Enrico Fermi'}, booktitle={Physics methods in archaeometry}, publisher={IOS Press}, author={Pernicka, E}, year={2004}, pages={309-329} }

@book{Petrie, W. M. Flinders_British School of Archaeology in Egypt_Egyptian Research Account_University College, London_1917, address={London}, title={Tools and weapons: illustrated by the Egyptian collection in University College, London, and 2,000 outlines from other sources}, publisher={British School of Archaeology in Egypt, University College}, author={Petrie, W. M. Flinders and British School of Archaeology in Egypt and Egyptian Research Account and University College, London}, year={1917} }

@article{Ponting_Segal_1998, address={Oxford}, title={Inductively coupled plasma atomic emission spectroscopy analyses of Roman military copper-alloy artefacts from the excavations at Masada, Israel}, volume={40}, DOI={10.1111/j.1475-4754.1998.tb00827.x}, number={1}, journal={Archaeometry}, publisher={Oxford University Press}, author={Ponting, M. and Segal, I.}, year={1998}, month=feb, pages={109-122} }

@book{Pope, John Alexander_Gettens, Rutherford J._Freer Gallery of Art_1967, address={Washington}, title={The Freer Chinese bronzes}, volume={Smithsonian publication 4706}, publisher={Smithsonian Institution}, author={Pope, John Alexander and Gettens, Rutherford J. and Freer Gallery of Art}, year={1967} }

@book{Pryor, Francis_Hosek, Jirina_Craddock, P. T._Royal Ontario Museum_1980, address={Toronto}, title={A catalogue of British and Irish prehistoric bronzes in the Royal Ontario Museum}, publisher={The Museum}, author={Pryor, Francis and Hosek, Jirina and Craddock, P. T. and Royal Ontario Museum}, year={1980} }

@book{Rapp, George Robert_2000, address={Lanham, Md}, title={Determining geologic sources of artifact copper: source characterization using trace element patterns}, publisher={University Press of America}, author={Rapp, George Robert}, year={2000} }

@article{Rehren_Pernicka_2008, title={Coins, artefacts and isotopes - archaeometallurgy and archaeometry}, volume={50}, DOI={10.1111/j.1475-4754.2008.00389.x}, number={2}, journal={Archaeometry}, author={Rehren, Th. and Pernicka, E.}, year={2008}, month=apr, pages={232-248} }

@article{Richards_Blin-stoyle_1961, address={Oxford}, title={A study of the homogeneity in composition of an Irish thick-butted axe}, volume={4}, DOI={10.1111/j.1475-4754.1961.tb00532.x}, number={1}, journal={Archaeometry}, publisher={Oxford Oxford University}, author={Richards, E. E. and Blin-stoyle, A. E.}, year={1961}, month=june, pages={53-55} }

@book{Rostoker, William_Bronson, Bennet_1990, address={Philadelphia, Pa}, title={Pre-industrial iron: its technology and ethnology}, volume={Archeomaterials monograph}, publisher={[Archeomaterials]}, author={Rostoker, William and Bronson, Bennet}, year={1990} }

@book{Samuels, Leonard Ernest_1980, address={Metals Park, Ohio}, title={Optical microscopy of carbon steels}, publisher={American Society for Metals}, author={Samuels, Leonard Ernest}, year={1980} }

@article{Sanders_1961, address={Norwood, MA}, title={The first Aegean swords and their ancestors}, volume={65}, DOI={10.2307/502497}, number={1}, journal={American journal of archaeology}, publisher={Archaeological Institute of America}, author={Sanders, N.K.}, year={1961}, month=jan, pages={17-29} }

@book{Scott, David A._1991a, address={[Marina del Rey, CA]}, title={Metallography and microstructure of ancient and historic metals}, publisher={Getty Conservation Institute}, author={Scott, David A.}, year={1991} }

@book{Scott, David A._1991b, address={ [Marina del Rey, CA]}, title={ Metallography and microstructure of ancient and historic metals}, publisher={ Getty Conservation Institute}, author={ Scott, David A. }, year={ 1991} }

@book{Scott, David A._1991c, address={ [Marina del Rey, CA]}, title={ Metallography and microstructure of ancient and historic metals}, publisher={ Getty Conservation Institute}, author={ Scott, David A. }, year={ 1991} }

@book{Scott, David A. Getty Conservation Institute_2002, address={ Los Angeles}, title={ Copper and bronze in art: corrosion, colorants, conservation}, publisher={ Getty Conservation Institute}, author={ Scott, David A. and Getty Conservation Institute}, year={ 2002} }

@book{Sease, Catherine_1987, address={ Los Angeles}, title={ A conservation manual for the field archaeologist}, volume={ Archaeological research tools}, publisher={ Institute of Archaeology, University of California, Los Angeles}, author={ Sease, Catherine}, year={ 1987} }

@book{Selwyn, Lyndsie_Canadian Conservation Institute_2004, address={ Ottawa}, title={ Metals and corrosion: a handbook for the conservation professional}, publisher={ Canadian Conservation Institute}, author={ Selwyn, Lyndsie and Canadian Conservation Institute}, year={ 2004} }

@inbook{Shearman_Dove_1997a, address={ Oxford}, title={ Application of radiography in conservation}, volume={ Butterworth-Heinemann series in conservation and museology}, url={ <http://www.vlebooks.com/vleweb/product/openreader?id=UCL&isbn=9780080455600>}, booktitle={ Radiography of cultural material}, publisher={ Butterworth-Heinemann}, author={ Shearman, F and Dove, S}, year={ 1997}, pages={ 155-174} }

@inbook{Shearman_Dove_1997b, address={ Oxford}, title={ Application of radiography in conservation}, volume={ Butterworth-Heinemann series in conservation and museology}, url={ <http://www.vlebooks.com/vleweb/product/openreader?id=UCL&isbn=9780080455600>}, booktitle={ Radiography of cultural material}, publisher={ Butterworth-Heinemann}, author={ Shearman, F and Dove, S}, year={ 1997}, pages={ 155-174} }

@article{Slater_Charles_1970, address={ Gloucester, Eng. }, title={ Archaeological classification by metal analysis}, volume={ 44}, url={ <http://search.proquest.com/docview/1293810457?accountid=14511>}, number={ 175}, journal={ Antiquity}, publisher={ Antiquity Publications etc..}, author={ Slater, E.A. and Charles, J.A. }, year={ 1970}, pages={ 207-213} }

@inbook{Smith_1981, address={ Cambridge, Mass}, title={ The interpretation of microstructures of metallic artefacts}, url={ <https://contentstore.cla.co.uk//secure/link?id=892f6a2d-4f36-e711-80c9-005056af4099>}, booktitle={ A search for structure: selected essays on science, art, and history}, publisher={ MIT Press}, author={ Smith, C.S. }, year={ 1981}, pages={ 69-111} }

@book{Smith, Cyril Stanley_1981a, address={ Cambridge, Mass}, title={ A search for structure: selected essays on science, art, and history}, publisher={ MIT Press}, author={ Smith, Cyril Stanley}, year={ 1981} }

@book{Smith, Cyril Stanley_1981b, address={Cambridge, Mass}, title={A search for structure: selected essays on science, art, and history}, publisher={MIT Press}, author={Smith, Cyril Stanley}, year={1981} }

@article{Stronach_1957, address={London}, title={The Development and Diffusion of Metal Types in Early Bronze Age Anatolia}, volume={7}, DOI={10.2307/3642348}, journal={Anatolian Studies}, publisher={British Institute of Archaeology at Ankara}, author={Stronach, D. B.}, year={1957}, pages={89-125} }

@book{Swanton, Michael James_Royal Archaeological Institute (Great Britain)_1973, address={London}, title={The spearheads of the Anglo-Saxon settlements}, publisher={Royal Archaeological Institute}, author={Swanton, Michael James and Royal Archaeological Institute (Great Britain)}, year={1973} }

@book{Tylecote, R. F._1962a, address={London}, title={Metallurgy in archaeology: a prehistory of metallurgy in the British Isles}, publisher={Edward Arnold}, author={Tylecote, R. F.}, year={1962} }

@book{Tylecote, R. F._1962b, address={London}, title={Metallurgy in archaeology: a prehistory of metallurgy in the British Isles}, publisher={Edward Arnold}, author={Tylecote, R. F.}, year={1962} }

@book{Tylecote, R. F._1987a, address={London}, title={The early history of metallurgy in Europe}, volume={Longman archaeology series}, publisher={Longman}, author={Tylecote, R. F.}, year={1987} }

@book{Tylecote, R. F._1987b, address={London}, title={The early history of metallurgy in Europe}, volume={Longman archaeology series}, publisher={Longman}, author={Tylecote, R. F.}, year={1987} }

@book{Tylecote, R. F._Gilmour, Brian J. J._1986, address={Oxford}, title={The metallography of early ferrous edge tools and edged weapons}, volume={BAR British series}, publisher={B.A.R.}, author={Tylecote, R. F. and Gilmour, Brian J. J.}, year={1986} }

@book{Tylecote, R. F._Metals Society_1976, address={London}, title={A history of metallurgy}, publisher={Metals Society}, author={Tylecote, R. F. and Metals Society}, year={1976} }

@article{Tylecote_1970, address={Gloucester, Eng.}, title={The Composition of Metal Artifacts: a Guide to Provenance}, volume={44}, url={http://search.proquest.com/docview/1293671550?accountid=14511}, number={173}, journal={Antiquity}, publisher={Antiquity Publications etc.}, author={Tylecote, R.F.}, year={1970}, pages={19-25} }

@book{Untracht, Oppi_1969, address={London}, title={Metal techniques for craftsmen: a basic manual for craftsmen on the methods of forming and decorating metals}, publisher={Hale}, author={Untracht, Oppi}, year={1969} }

@book{Vandkilde, Helle_Northover, Jeremy P._1996, address={Moesgard, Aarhus}, title={From stone to bronze: the metalwork of the late neolithic and earliest bronze age in

Denmark}, volume={Jutland Archaeological Society publications}, publisher={Jutland Archaeological Society}, author={Vandkilde, Helle and Northover, Jeremy P.}, year={1996} }

@inbook{Wagner_1974, address={London}, title={Ferrous Metallurgy}, booktitle={Science and civilisation in China: Volume 5: Chemistry and chemical technology}, publisher={Cambridge University Press}, author={Wagner, D}, year={1974} }

@book{Wagner, Donald B._1993, address={Leiden}, title={Iron and steel in ancient China}, volume={Handbuch der Orientalistik = Handbook of Oriental studies. Vierte Abteilung, China}, publisher={E.J. Brill}, author={Wagner, Donald B.}, year={1993} }

@book{Waldbaum, Jane C._Archaeological Exploration of Sardis_1983, address={Cambridge, Mass}, title={Metalwork from Sardis: the finds through 1974}, volume={Monograph / Archaeological Exploration of Sardis}, publisher={Harvard University Press}, author={Waldbaum, Jane C. and Archaeological Exploration of Sardis}, year={1983} }

@book{Watkinson, David_Neal, Virginia_United Kingdom Institute for Conservation of Historic and Artistic Works_Museum of London_Rescue (Trust)_1998, address={Hertford}, edition={3rd ed}, title={First aid for finds}, publisher={RESCUE - The British Archaeological Trust; Archaeology Section of the UKIC; The Museum of London}, author={Watkinson, David and Neal, Virginia and United Kingdom Institute for Conservation of Historic and Artistic Works and Museum of London and Rescue (Trust)}, year={1998} }

@book{Williams, Alan_2003, address={Leiden}, title={The knight and the blast furnace: a history of the metallurgy of armour in the Middle Ages & the early modern period}, volume={History of warfare}, publisher={Brill}, author={Williams, Alan}, year={2003} }

@article{Young_Budd_Haggerty_Pollard_1997, address={Oxford}, title={Inductively coupled plasma-mass spectrometry for the analysis of ancient metals}, volume={39}, DOI={10.1111/j.1475-4754.1997.tb00814.x}, number={2}, journal={Archaeometry}, publisher={Oxford Oxford University}, author={Young, S. M. M. and Budd, P. and Haggerty, R. and Pollard, A. M.}, year={1997}, month=aug, pages={379-392} }

@misc{aata.getty.edu/NPS/ - Similar Sites and Reviews | Xmarks, url={http://www.xmarks.com/site/aata.getty.edu/NPS/} }

@misc{HMS Archaeology Committee, url={https://historicalmetallurgy.org/about-hms/hms-acc/} }

@misc{Main Archaeo-Metallurgical Bibliography, url={http://users.ox.ac.uk/~salter/arch-metals/met-bib-ak.htm} }

@misc{Fire Gilding of Arms and Armor | Thematic Essay | Heilbrunn Timeline of Art History | The Metropolitan Museum of Art, url={http://www.metmuseum.org/toah/hd/fire/hd_fire.htm} }

@misc{Newsletter, url={ <http://www.ucl.ac.uk/iams/newsletter>} }

@misc{British Museum - British Museum Technical Research Bulletin,
url={ https://www.britishmuseum.org/research/publications/online_journals/technical_research_bulletin.aspx} }

@misc{Getty Vocabularies (Getty Research Institute),
url={ <https://www.getty.edu/research/tools/vocabularies/>} }