**MIDDLE EAST**

The countries covered in this section include: Bahrain, Egypt, Iran, Iraq, Israel, Jordan, Kuwait, Lebanon, Oman, Qatar, Saudi Arabia, Syria, Turkey, United Arab Emirates (UAE), and Yemen. *See also* the two specialized theme bibliographies and the General/Miscellaneous bibliography as they also contain reports dealing with these countries.

**Abu-Laban, Aiysha**


This inland site produced a variety of marine shells, most of which had been modified for possible use as ornaments. The author questions whether these objects are prestige items as some researchers contend.

**Adachi, Takuro, and Sumio Fujii**


A chronological review of the recovered stone and faience beads corroborates the Early to Middle Bronze Age date previously assigned to the site.

**Akkermans, P.A. et al.**


Thousands of stone, amber, and shell beads of various shapes (including “butterfly”) were found in a Neolithic house in Syria (p. 55, fig. 11).

**Alarashi, Hala**


Several techniques were used for modifying cowrie beads: grinding or hammering, engraving, drilling, etc. Local use wear observed on some areas, as well as the location of the perforations, is related to various attachment systems.


Alarashi, Hala and Marie-Laure Chambrade

Algaze, A.

Al-Hayyani, Hafidh Hussein
1999-2000 Ladies Jewellery from Assur. Sumer 49-50:147-162 (Arabic section). Article in Arabic on finds made in the earliest of the Late Assyrian capitals in northern Iraq. Most were from intramural graves but others were apparently from occupation contexts. Among the illustrated material are re-strung cowries, a single Engina mendicaria shell, collared and spherical gadrooned beads (both presumably faience), large faience rosettes (presumably Middle Assyrian), and plain and banded cylindrical, elongated barrel, and lozenge-shaped beads, most probably chalcedony.

Alkim, U.B., H. Alkim, and Ö. Bilgi
1988 Ikiztepe I, the 1st and 2nd Seasons’ Excavations (1974-1975). Türk Tarih Kurumu Yayinlari V. Dizi 39. The small finds section includes a few simple Early Bronze Age beads (pp. 191-194); Turkey.

Almasri, Eyad, Firas Alawneh, and Fadi Bala’awi
2012 Nabataean Jewellery and Accessories. Ancient Near Eastern Studies 49:150-175. Uses finds from sites in Jordan and Israel to gain a better understanding of the kinds, shapes, and material of Nabataean jewelry and accessories and its function and symbolism in Nabataean society. A number of bead necklaces are discussed.
Al-Mughannum, A.S. and J. Warwick  
Beads in a great variety of shapes and materials, mid-2nd millennium (pp. 20f., pls. 27f.); Saudi Arabia.

Al-Nahar, Maysoon  
Discusses the beads of stone, shell, amber, bone, and animal teeth found at two sites in Jordan.

Al-Najafi, Hazim Mohammad  
Assyrian site in the Hamrin Basin region of Iraq containing several graves with various beads summarily reported (pp. 36-37).

Alpaslan-Roodenberg, Songül  
A neolithic burial of a young woman in Turkey was accompanied by a necklace of stone beads (exact material not specified).

Al-Sadeqi, Waleed Mohamed Abdulrahim  
Presents a typology for the beads of the Bronze and Iron ages particular to the Bahrain Islands.

Al-Shams, Majid Abdullah  
Many glass, onyx, carnelian, etc., beads from pre-Islamic graves (pp. 16-17), Iraq.

Amelirad, Sheler, Bruno Overlaet, and Ernie Haerinck  
Excavation revealed beads of the following materials: carnelian, agate, black stone, frit, faience, glass, bronze, iron, gold, and shell.

Amiet, P.  
Central Asian imports, etched carnelian beads, etc. (pp. 143f., 147, figs. 92, 97, 100). Iran.

Andersson, Ann  
2014  Beads, Pendants and Other Ornaments from Late 3rd-2nd Millennium BC Occupation on Failaka, Kuwait. *In Beyond Ornamentation. Jewelry as an Aspect of Material Culture in the Ancient Near*
Related to the Dilmun culture, the beads are composed of various materials including glass, faience, stone, metal, shell, ostrich eggshell, bone, and pearls. All appear to be imported.

Andrews, Carol
Includes much on beads: craftsmen, techniques of manufacture, materials, and methods of wearing.

Artin, Gassia
2010  *The Necropolis and Dwellings of Byblos during the Chalcolithic Period: New Interpretations.*  
*Near Eastern Archaeology* 73(2):2-12.
Some of the beads recovered from this site in Lebanon are illustrated and briefly discussed.

Aruz, J. (ed.)
2003  *Art of the First Cities: The Third Millennium B.C. from the Mediterranean to the Indus.*  
Metropolitan Museum of Art, New York.
Exhibition catalog. Bead entries, *passim*, with large photos (mostly color) and full information. Of especial interest is an etched carnelian and a plain carnelian bicone found in an Early Bronze Age settlement on the Greek island of Aegina (pp. 260-261, nos. 166a-b). The etched bead, linked with the Indus Valley and Mesopotamia, is the first to be found west of Mesopotamia!

Asher-Greve, Julia M.
For references to Sumerian women wearing beads and their significance, see index: “Schmuck.”

Assaf, Ali Abu
Mentions agate beads (pp. 87, 90, plates 21-22), Syria.

Avni, G., Z. Greenhuit et al.
Final report on a group of Roman cave tombs reused during the Byzantine period. Finds include 23 glass, 13 frit (8 melon, 4 plain barrel, 1 vase-shaped amulet), and 1 spherical carnelian bead discussed with reference to beads from Samaria and other sites (pp. 111, 113-114).

Bacharach, Jere L. (ed.)
2002  *Fustat Finds: Beads, Coins, Medical Instruments, Textiles, and Other Artifacts from the Awad Collection.* American University in Cairo Press.
One section describes the beads recovered in Old Cairo, Egypt.

Bachhuber, C.
A careful discussion of the Late Bronze Age wreck off the coast of Turkey: destination, purpose, and passengers on the voyage. The glass, faience, and amber beads are an important element in the argument (see esp. pp. 351-354).

**Bagherpour Kashani, Natascha**
Describes the glass and stone beads recovered from Çale Ğār 1 and 2 at Vešnave, Iran.

This study describes and analyses the personal ornaments found in two ancient copper mines, Çale Ğār 1 and 2, at Vešnave, Iran. Including beads and pendants of glass, metal, stone, amber, and shell, the adornments are assigned to the period 800 B.C. - 8th century A.D.

**Bagherpour Kashani, N., K. Roustaei, and T. Stöllner**

**Baines, J.**
The ancient Egyptian language possesses 4 basic color terms; painting uses 7 and later 9 polychrome colors. These sets correspond to Stages IIia, V, and VII (incomplete) of the Berlin and Kay encoding sequence for language, and support the theory of 11 “basic perceptual color categories.”

**Banning, E.B. et al.**
A Kebaran child’s burial was found with a dentalium-shell necklace.

**Barker, Diane**
Eighty-seven beads of various materials from a site in Fujairah, United Arab Emirates (U.A.E.) are assigned to 12 typological groups on the basis of shape, although manufacturing techniques and materials are also discussed. The beads are compared to other assemblages in southeastern Arabia.

**Bar-Yosef Mayer, Daniella E.**
During the Upper Paleolithic and Epi-Paleolithic periods of the southern Levant (ca. 30,000-12,500 years B.P.), Mediterranean gastropods such as *Columbella rustica, Nassarius gibbosula, Mitrella* sp., and *Dentalium* sp., were the preferred shells for use as ornaments. The subsequent Natufian culture (ca.
12,500-10,300 B.P.), best known for the development of the first sedentary communities, exhibits increasing use of shells. During the Neolithic Period (10,300-8,000 B.P.) there was a marked shift in the selection of marine shells. Israel, Egypt.

1997  Neolithic Shell Bead Production in Sinai. *Journal of Archaeological Science* 24:97-111. Describes five marine shell assemblages with over 5,000 beads, pendants, and other artifacts from two Pre-Pottery Neolithic B (9200-7800 B.P.) sites, and considers their importance for both artistic uses and as objects of exchange.


2002  The Shells of the *Nawamis* in Southern Sinai. In *Archaeozoology of the Near East V: Proceedings of the Fifth International Symposium on the Archaeozoology of Southwestern Asia and Adjacent Areas*, edited by H. Buitenhuis, A.M. Choyke, M. Mashkour and A.H. Al-Shiyab, pp. 166-180. *ARC-Publicaties* 62. Groningen, The Netherlands. Conus-shell beads were found in *nawamis* tombs and sites in the central Levant. Their presence suggests that the *nawamis* were continuously used during the Early Bronze II period, longer than proposed by previous studies. Israel.


Systematic exploitation begins in the Upper Paleolithic, especially of small gastropods. The Neolithic change to farming sees the use of more species and the production of more kinds of artifacts, some of which are used for exchange. In desert areas Red Sea species are collected. The Mediterranean zone concentrates on *Glycymeris* and *Cerastoderma*.


Personal ornaments and jewelry, including beads, from this Neolithic site in Turkey were made not only of local material (*Unio, Viviparus, Stagnicola*, and *Xeropicta*), but also from imported shells. These consist of marine and fossil shells that were either used in their natural state (as in the case of scaphopods and naturally holed gastropods), or were perforated and/or painted.

Profers a comprehensive typology of the earliest stone bead assemblages in the southern Levant from Late Natufian and Neolithic sites.

**Bar-Yosef Mayer, D.E. and Naomi Porat**


During the transition to agriculture in the Near East, stone, in particular green stone, was used for the first time to make beads and pendants. A large variety of minerals of green colors were sought, including apatite, several copper-bearing minerals, amazonite, and serpentinite. It is suggested that the occurrence of green beads is directly related to the onset of agriculture. Green beads and bead blanks were used as amulets to ward off the evil eye and as fertility charms.


The burial cave at Peqi’in in Israel yielded about 190 small beads made of white enstatite, found in the context of ossuaries. They were apparently made of a paste composed of powdered talc formed into long tubes and fired at a high temperature, then sliced to form beads. Neither talc nor enstatite are found in Israel; the nearest sources are in Turkey or Egypt.


Discovered in el-Wad Cave, Mount Carmel, Israel, the pendants are among the earliest green stone beads in the Levant and are attributed to the Late Natufian period.

**Bar-Yosef Mayer, D.E., B. Vandermeesch, and O. Bar-Yosef**

Qafzeh Cave, the burial place of several anatomically modern humans, yielded archaeological evidence reflecting their modern behavior. Dated to 92 ka BP, the lower layers at the site contained a series of
hearths, several human graves, and a collection of sea shells which had been brought from the
Mediterranean Sea some 35 km away, and are complete *Glycymeris* bivalves with natural perforations.
Several valves bear traces of having been strung, and a few have red ochre stains on them.

**Bass, George F.**
1986 A Bronze Age Shipwreck at Ulu Burun (Kaş): 1984 Campaign. *American Journal of
Archaeology* 90:269-296.
Faience and amber beads, an amphora filled with glass beads, and early glass ingots were found on a
shipwreck off the southern coast of Turkey; late 14th century B.C.

**Bass, George F. et al.**
1989 The Bronze Age Shipwreck at Ulu Burun: 1986 Campaign. *American Journal of
Archaeology* 93:1-29.
A wreck off Turkey with mixed Egyptian, Levantine, and Aegean cargo continues to produce interesting
beads.

**Baysal, Emma**
2009 The Question, Nature and Significance of Neolithic Craft Specialization in Anatolia. Ph.D.
dissertation. University of Liverpool.
Turkey.

2013 A Tale of Two Assemblages: Early Neolithic Manufacture and Use of Beads in the Konya Plain.
*Anatolian Studies* 63.
Turkey.

2013 Epipalaeolithic Marine Shell Beads at Pınarbaşı: Central Anatolia from an Eastern Mediterranean
The Epipalaeolithic bead assemblage from Pınarbaşı in the Konya Plain, Turkey, provides a unique
window on the use of beads in the earliest context yet known from Central Anatolia. The assemblage is
largely associated with the inhumation of a single individual who was interred with a variety of
possessions including marine shell beads, mostly *Dentalium* and *Nassarius*.

2014 A Preliminary Typology for the Neolithic and Chalcolithic Beads of Barcın Höyük. *Anatolia
This site in Turkey yielded a diverse collection of beads and pendants of stone, shell, bone, and clay.

**Baysal, Emma and Burçin Erdoğu**
2014 Frog in the Pond: Gökçeada (Imbros), an Aegean Stepping-stone in the Chalcolithic Use of
The shell beads and bracelets of the Chalcolithic settlement at Uğurlu, Turkey, evidence a consistent
engagement with *Spondylus* and *Glycymeris* throughout the Chalcolithic occupation period, and
particularly during Phase III.

**Beeri, Ron and Oren Cohen**
Beads, mostly of glass, found at this cave site in Israel range from the Late Bronze Age to the Middle Ages.

**Belcher, Ellen H.**
Examines some of the technological aspects of stone beads, pendants, and seals from a large 6th-millennium B.C. site in southeast Turkey in terms of both the utilization of raw materials and the evidence for the methods of manufacture of final products.


**Ben Basat, Hagar**
The site produced beads and pendants of a variety of materials: stone, bone, ivory, shell, egg-shell, clay, metal, faience, and glass.

**Ben Tor, A. and M.T. Rubiato**
A hoard of beads and cylinder seals was found next to a jewelry box in the Late Bronze Age palace of Hazor in the southern Levant (color photo, p. 35).

**Bennett, C.-M. and P. Bienkowski**
A variety of carnelian/agate, amethyst, calcite, marble, unidentified stone, amber (?), bone, coral, shell, glass, and faience (?) beads are discussed from Late Iron Age (Edomite/Achaemenid) contexts; additional beads were recorded from Nabataean and Islamic contexts.

**Benton, Jodie**
1993  Update on the 1993 Excavations at Tell Abraq (Umm al Qaiwain, UAE). Orient Express 2:13f.
Beads from a 3rd-millennium tomb; many stone and frit, one silver.

Describes carnelian, tubular talcose or baked steatite (length: ca. 12 mm), and softstone microbeads from a late 3rd-millennium Hafit tomb; imports from India?

**Benzel, Kim**
An in-depth study of the jewelry belonging to a female named Pu-abi buried in the so-called Royal Cemetery at the site of Ur in modern Iraq. The mid-third millennium B.C. assemblage includes beads of stone and gold.
Berna, F.
Amazonite processing for beads in the neolithic village of Jebel Ragref, southern Jordan.

Biagi, Paolo
Serpentinite and phyllite beads, mostly small cylinders, and one perhaps unfinished bead (p. 63, fig. 15); 5th-4th millennia B.C.

Bianchi, Alice and Anne Wissing
Excavations at the ancient city of Urkesh in Syria produced a broad assortment of beads and pendants which are well described.

Bianchi, R.S.
On the meaning of a deposit of more than 2,000 carnelian beads carefully arranged around two burned boats in a mortuary temple.

Bimson, M. and I.C. Freestone
Very early colorless Egyptian glass beads.

Bingöl, F.R. Isik
Includes grey and white stone disc beads with antler pendants from Catalhoyuk, Early Bronze Age, carnelian phallic beads, Uratian quartz and amber beads, Hellenistic emeralds (?), and Roman faceted sardonyx beads, some attached to earrings. Western Turkey.

Boehmer, R.M.
Two gold beads (p. 119); a marine-snail bead (p. 136); a frit spacer (p. 146) of various dates. Iraq.

Beads of the Kassite period: faience, shell, and (?) boars tusk (pp. 52f., pls. 60, 62). Iraq.

A few beads ranging from Uruk to Middle Babylonian date, including a glass bead with wavy bands. Iraq.
Bonatz, D., H. Kühne, and Mahmoud As’ad

Early Syrian beads from Mari with gold collars, 2300-2200 (p. 75, no. 72): one lapis lazuli cylindrical and one etched carnelian with white wavy lines.

Bos-Seldenthuis, J.

Shows how the beadwork found in Tutankamun’s tomb can be reconstructed, thanks to Howard Carter using the then-standard technique of pouring hot paraffin wax to preserve the beadwork in situ before removing it. Ancient Egypt.

Bosse-Griffiths, Kate

Reviews the historical outline of bead composition, such as bead collars, bead bands, bead faces, and a hassock with geometrical patterned beading from Tutankhamun’s tomb. Ancient Egypt.

Bourke, S.J.

Chalcolithic faience beads were found in Area G of the site. Jordan.

Bourke, S.J., P.L. Seaton, Rachael T. Sparks, Jamie Lovell, and L.D. Mairs
1995 A First Season of Renewed Excavation by the University of Sydney at Tulaylat al-Ghassul. Annual of the Department of Antiquities of Jordan 39:31-63.

Small disc beads made of calcite and frit, thought to be of possible Egyptian origin, were found at this Chalcolithic type-site in Jordan.

Boyce, Andrew

Covers every aspect of the (mostly faience) beads from Akhenaten’s city in ancient Egypt.


A lasting contribution to the study of beads in ancient Egypt and surrounding regions.

Braemer, F. et al.

Pastoralists using pottery and metal had carnelian beads probably in necklaces as well as microbeads of a white composition (baked chlorite?) perhaps worn in the hair or on clothing (p. 34, table 4, fig. 13).
Braidwood, L.S. et al. (eds.)
Stone Age beads of stone, shell, and bone from Jarmo and other sites in Iraq.

Braun, E. et al.
A small number of bone and stone beads were recovered.

Braun-Holzinger, Eva A.
See pp. 360-372 for a catalog of beads and interesting remarks on the inscribed beads dedicated to deities and plain beads used in foundation ceremonies and other rituals.

Breniquet, Catherine
Reconsideration of the find-place of an important Mesopotamian bead complex in Iraq.

Brock, L.P.
An Amarna-period tomb in the Valley of the Kings dug in 1907, re-examined in 1993. Bead details are on pp. 127-128.

Broeder, N.H. and C.W. Skinner
Covers 241 bead samples from contexts in Jordan dated to Early Bronze Age IV, Nabatean, Roman, Byzantine, Umayyad, Fatimid, Ayyubid-Mamliu and/or Ottoman, and modern periods.

Discusses the beads of various materials from an Early Bronze Age site in Jordan.

Brovarski, E.
Expounds upon the translation of a column of hieroglyphic text located at the entrance of the 5th-Dynasty chapel of Akhethotep which records gifts awarded to that official by his sovereign, including two beaded collars.
Brunet, Olivier

Many believe that all ancient carnelian beads came from the Indus valley. This technological study reveals the existence outside the Indus Valley of different productions and levels of technical skill. It suggests that we should revise our understanding of Bronze and Iron Age exchange networks, by offering another reading of carnelian production in this part of the world.


Focuses on more than 100,000 stone beads (agate, carnelian, lapis lazuli, green softstone, etc.) uncovered in Oman, spanning approximately four millennia, from a morphological, dimensional, and especially technological perspective.

Buhl, M.-L.

Beads of many materials at a Late Bronze to Early Iron Age site in Syria (pp. 77-78; plate X XIV).

Bulsink, Mariëlle

Contains a catalog of gold objects (including beads, pendants, necklaces, etc.) which are part of the renowned collection of the Egyptian Department of the National Museum of Antiquities in Leiden.

Calley, Sylvie

Presents a few technological comments relating to the production of Neolithic stone beads at Kumartepe, Turkey.

Calvet, Y., A. Caubet, and J.-F. Salles

Agate and carnelian beads from a Hellenistic sanctuary in Kuwait (p. 12; fig. 7).

Carter, Robert and Harriet Crawford

Excavation report on a late-6th-millennium Ubaid settlement in northern Kuwait with extensive evidence for the manufacture of shell beads, typically small annular examples. Finds include a necklace of 44 shell disc beads, selected and trimmed to show the orange surface on one side and white on the other (p. 2). Other finds include circular, sub-rectangular, and hourglass-shaped shell “buttons” and “plaques,” usually with 4 holes. Also a brief discussion of comparative evidence for shell beads at Ubaid sites (p. 8).

Concludes that the small quantity of obsidian (as opposed to the much larger quantity of chipped flint) lithic material was used for bead-drilling (p. 86).

**Carter, Robert, Harriet Crawford, Simeon Mellalieu, and Dan Barrett**


Flint microdrills found with finished and unfinished shell disc beads confirm a bead manufacturing function for this small, coastal 5th-millennium site.

**Castel, Georges, Jean-François Gout, and Georges Soukiassian**


Beads with votive offerings in a mineworkers’ shrine, ancient Egypt (pp. 18-20).

**Charpentier, V., M. Cremaschi, and F. Demnard**


Carnelian, chlorite, and holed shell beads are illustrated from a 4th-millennium coastal site.

**Chernov, Elena**


The finds at this village site in Israel include glass eye beads of the Roman-Byzantine period.

**Chevalier, J., M.L. Inizan, and J. Tixier**


Workshop with carnelian beads in association with flint drills.

**Cifarelli, Megan**


Discusses the beads, ndants, and other ornaments recovered from the ancient city of Hasanlu in northwester Iran. *See also* Appendix VI: Catalog of Personal Ornaments, Cemetery, Outer Town, Hasanlu Periods Vlb-IVc.

**Cingi, Cemal and Can Cemal Cingi**


**Connan, J.**


Mentions the use of bitumen mixtures and asphaltite for the production of beads at several sites in the United Arab Emirates and Iran.
**Coppa, A. et al.**
A few beads and pendants of shell and steatite (p. 99, pl. 3).

**Corboud, P. et al.**
Modified *Conus, Engina,* and *Cypraea* shells, biconical agate/carnelian, cylindrical and barrel-shaped alabaster and agate/carnelian, spherical carnelian, faceted carnelian and cylindrical frit/glass beads from a late-2nd to early-1st-millennia tomb in southeast Arabia (UAE), re-used in the Parthian period.

**Costa, P.M. and T.J. Wilkinson**
Early Islamic bone and stone beads found near the ancient Oman capital (p. 202).

**Covello-Paran, K.**
Hagosherim, Israel; ostrich eggshell disc, “flint” barrel, rounded agate, and biconical and barrel glass beads from a Hellenistic burial although the eggshell beads may be residual Middle Bronze Age pieces. Israel.

**Crawford, Harriet**
2001  The British Archaeological Expedition to Kuwait. *British School of Archaeology in Iraq Newsletter* 7:10-11.
Excavations at a late 5th-millennium-B.C. Ubaid coastal site in northern Kuwait have revealed “about 800 shell beads in all stages of manufacture” as well as “a single small seed pearl with a hole drilled in,” illustrating the long history of pearling in the Arabian Gulf.

**Crawford, H., R. Killick, and J. Moon (eds.)**
A single agate barrel and a crude asphalt “bead” (possibly a net-weight) from the Bronze Age at Saar, Bahrain (pp. 63, 66).

**Creamer, Petra M.**
Department of Anthropology, The Ohio State University, Columbus.
By analyzing resin artifacts from eleven different sites in Iran, Iraq, Jordan, Egypt, Israel, and Ukraine, this study focuses on a comparison among the resins to understand any area- or culture-specific trends in resin quality, use, color, clarity, craftsmanship, size, and shape.

**Critchley, P.**
Archaeological, ethnographic, and experimental evidence is used to investigate the technology of stone bead production at Wadi Jilat 25. The approach used is the *chaine operatoire* – how the production process is embedded in socio-economic and socio-cultural organization. Exchange networks, aspects of
economic and craft specialization, and symbolic and aesthetic aspects of bead production are briefly examined.

**Curtis, John**  
1984  
Much on beads from this site in Iran, including important discussions of silver spirals and glass eye beads, Median and Parthian periods and earlier.

**Curtis, J. and A. Green**  
1997  
A single cylindrical marvered glass bead and fluted-barrel faience beads came from a small rural Late Assyrian site in northern Iraq.

**Curvers, H.H. and G.M. Schwartz**  
1990  
*American Journal of Archaeology* 94:3-23.  
Stone, faience, and shell beads from a necklace and bracelet were found in a burial dating to the mid-3rd millennium B.C., northeastern Syria (fig. 16).

**Dalley, Stephanie**  
1999  
Glass eye beads used with incantations in a ritual suggest who the occupant of a house was and add some light on cultural history. Also includes an account of the magical and healing properties of various stones and eye beads. Turkey.

**Danti, Michael D. and Megan Cifarelli**  
2015  
Eight burials (99, 100, 105, 107, 111, 493a, 495, and 497) were accompanied by beads of glass, stone, and metal which are briefly described and illustrated in line drawings.

**Dapschauskas, Rimtautas**  
2015  
Discusses empirical evidence for the intentional use of personal ornaments by early *Homo sapiens* and interprets the finds in the context of theoretical reflections on symbolic communication. The analysis draws on a combination of theories, concluding that an expansion of human cognitive capacities to communicate symbolically probably occurred in *Homo sapiens* during the Middle Stone Age in Southern Africa, as well as the Middle Paleolithic of Northern Africa and the Levant.

**Daviau, P.M. Michele et al.**  
2002  
This site in central Jordan due south of Amman is not to be confused with the 4th-millennium site of the same name in northeast Jordan. The finds are regarded as indicative of Ammonite material culture. The small quantity of beads of stone (unidentified materials), glass, faience, and shell (cone, cowrie), and
fossilized sea urchin are described and illustrated. They are discussed in detail with full Levantine parallels (pp. 33-41, 215-216).

**Dayagi-Mendels, Michal**

Chapter 6 discusses the various types of jewelry, including beads, pendants, and amulets from necklaces.

**de Beauclair, Roland**
2008  La parure funéraire de la nécropole néolithique d’al-Buhais 18 (Émirats Arabes Unis).
*Préhistoires Méditerranéennes* 14.

Describes the various forms of shell beads and other ornaments found in a Neolithic necropolis in the United Arab Emirates (U.A.E.).

**de Beauclair, R., S.A. Jasim, and H.-P. Uerpmann**

Excavations at the Neolithic graveyard of al-Buhais 18 (Sharjah, U.A.E.) have yielded more than 24,000 ornamental objects, many of marine origin. Their detailed analysis not only gives an insight into the shell and stone bead industry during the 5th millennium B.C., but also testifies to the great importance of the sea and its resources for this desert nomad population.

**Deblauwe, F.**

On some beads as evidence for contacts with Syro-Mesopotamia (p. 139).

**Dębowska-Ludwin, Joanna, Karolina Rosińska-Balik, and Marcin Czarnowicz**

Presents details re: the chemical composition, workmanship, and typical shapes of gold beads discovered at Tell el-Farkha, Egypt, as well as other examples from similar temporal and geographical loci; e.g., Kom el-Khilgan, Minshat Abu Omar, and Gerzeh.

**Delougaz, P. and Helene J. Kantor**

Iran. Occasional prehistoric carnelian globular, white stone and greenstone tubular, shell and white stone disc, and incised lentoid beads; hoard of 4th-millennium carnelian, black stone, fired clay, frit, and shell beads; single agate barrel bead placed near the chin of an Achaemenid burial.

**De Waele, A.**

Beads, pendants, and insets of stone, bone, shell, pearl, glass, frit, faience, pottery, gold, and copper-alloy were unearthed from contexts attributed to the late 1st century and the early 2nd century A.D.
2008  The Small Finds of Ed-Dur (Umm al-Qaiwain, U.A.E). A Study of their Characteristics, Typology, Dating and Context with an Analysis of their Spatial Distribution and the Trade in and Beyond the Persian Gulf in the Late 1st. C. BC. to the 2nd C. AD. Ph.D. dissertation. Faculty of Arts and Philosophy, University of Ghent.

**De Waele, A. and E. Haerinck**


Surveys and illustrates examples from the Arabian side of the Persian Gulf which is not yet archaeologically well known. Best represented are the Early Bronze Age and the centuries straddling B.C.-A.D, but other periods have produced examples as well.

**Dieudonné-Glad, Nadine, Michel Feugère, and Mehmet Önal**


Provides an illustrated catalog of the Roman beads and amulets recovered from a site in Turkey. Materials include glass, faience, gold, stone, and bone.

**Donaldson, P.**


Egyptian tombs with beads (pp. 86f.).

**Dothan, Trude**


A cemetery in the Gaza Strip produced several anthropomorphic ceramic coffins whose contents included necklaces composed of gold and carnelian beads and pendants dating to around 3500 B.P.

**Doumet-Serhal, C.**


Beads are of types too common and long-lived to be informative, but two ribbed “melon” beads of rock crystal are worth noting (p. 150).

**Dubiel, Ulrike**


Presents a typology for the amulets, seals, and beads recovered from Old and Middle Kingdom cemeteries in the region of Qau el-Kebir (Middle Egypt), and discusses their various uses.


Data acquired from the provincial cemeteries of Middle Egypt shows that the wearing of jewellery (i.e., amulets, beads, shells, and seals) is clearly gender-specific and restricted to women and children. In contrast, Medu-Nefer, governor of the oasis Dakhlia, was buried with an assemblage of jewellery expected
in the burials of female individuals. This is not a matter of cross-dressing, but rather the representation of the deceased as a social individual and his social distinction through means of beauty.

**Duka, Katerina, Christopher A. Bergman, Robert E. M. Hedges, Frank P. Wesselingh, and Thomas F. G. Higham**

2013 Chronology of Ksar Akil (Lebanon) and Implications for the Colonization of Europe by Anatomically Modern Humans. PLoS ONE 8(9):e72931 DOI: 10.1371/journal.pone.0072931.

The remains of two anatomically modern humans found at the key site of Ksar Akil in Lebanon were associated with early Upper Palaeolithic archaeological assemblages. Radiocarbon dating of marine-shell beads place one individual between 40.8–39.2 ka cal BP (68.2% prob.) and the other between 42.4–41.7 ka cal BP (68.2% prob.). The dating of the so-called “transitional” or Initial Upper Palaeolithic layers of the site may indicate that the passage from the Middle to Upper Palaeolithic at Ksar Akil, and possibly in the wider northern Levant, occurred later than previously estimated, casting some doubts on the assumed singular role of the region as a locus for human dispersals into Europe.

**During Caspers, Elisabeth C.L.**

1987 In the Footsteps of Gilgamesh – In Search of the “Prickly Rose.” Persica XII:57-95.

On Mesopotamian trade in the Persian Gulf. Deals principally with pearls and coral, but see pp. 74-76 on etched carnelian beads from India, and p. 70 on the custom of burying a snake with a single pearl or turquoise bead.

**Eger, Christoph**


Carnelian beads with etched white decoration occur in around a dozen settlements of late antiquity in the southern Levant. They deserve special attention as they count as foreign forms and point to long-distance contacts. In German with an English summary.

**Eger, Christoph and Lutfi Khalil**


The excavation of a rock-chamber necropolis at Khirbat Yajuz (northern Amman, Jordan) yielded more than 360 beads and pendants from the Late Roman and Byzantine periods.

**Eichler, S. et al.**


**El Morr, Ziad and Marianne Mödlinger**


The specimens include copper-alloy beads of various forms.
El Sayed El Gayar
Re-analysis of three surviving iron beads from two groups excavated by Petrie and Wainwright from pre-dynastic graves at Gerzeh suggests that they are not made from meteoric iron as once believed but more probably made from iron produced as a by-product of copper smelting.

Emberling, Geoff and Helen McDonald
2002 Recent Finds from the Northern Mesopotamian City of Tell Brak. *Antiquity* 76:949-950.
Color illustration of a cache of over 350 beads of a wide range of shapes (mainly carnelian, also gold, silver, lapis, amethyst, and rock crystal) placed in a basket and concealed beneath the floor of a mid-4th-millennium house, Syria.

Emberling, G., H. McDonald et al.
A cache of some 350 beads and 2 stamp-seals was found buried in a mat or basket below a courtyard floor in level 16 (early-4th millennium B.C.) of Area TW. The beads were mostly carnelian but included silver, gold, lapis, and rock crystal (p. 9). Micro-stratigraphic sampling of a small area in level 20 of the same excavation area revealed 6 gypsum and unidentified stone beads (discs, cylinders, and lozenges) measuring 2-10 mm across. Syria.

Emberling, G., J. Robb, John D. Speth, and Henry T. Wright
The skulls of the burials were repositioned some time after original burial and some were decorated with beads (bone, chlorite, and limestone) at this point (pp. 62, 71, fig. 16). Iran.

Engle, Anita
Illustrated with color photos, this publication deals with a small group of glass beads of 16th-17th-centuries origin which were picked up at the site of ancient Caesarea on the coast of Israel.

Esin, Ufuk
Extremely early metal beads: cylindrical rolls of copper from Central Anatolia dated to the first quarter of 7th millennium, Pre-Pottery Neolithic; found with stone beads. Turkey.

van Ess, Margarete and F. Pedde
Iraq: includes beads in various materials from excavations conducted 1912-1985; dates from the Uruk to Parthian periods.
Ezzughayyar, A. and M. Al-Zawahra
The material includes *Conus* shell beads.

Fabiano, M., F. Berna, and E. Borzatti von Lowenstern
Thousands of borers and awls were found together with hundreds of worked and unworked amazonite fragments. A few finished beads of amazonite and sandstone were also found. Experiments demonstrate that the awls were mounted in drills and the majority of the borers were actually drill bits.

Finkbeiner, U.
Concordance to the finds from 34 seasons of excavation at Uruk in Iraq. The many beads and their publications are listed under Schmuck.

Finkenstaedt, E.
Soapstone beads are present in graves from the end of the final Amratian period up to the phase succeeding the Gerzean. This stability militates in favor of an indigenous population. Egypt.

Finlayson, Bill
Page 39 illustrates beads from the Pre-Pottery Neolithic in southern Jordan; copper minerals were used to make beads and pigments.

Fischer, Moshe

Fortin, M.
1999 *Syria, Land of Civilizations: A Traveling Exhibition Organized by the Musée de la Civilisation de Québec*. Musée de la Civilisation, Québec/Les Éditions de l’Homme.
Beads from Ugarit, called carnelian but are amber (p. 212, no. 207).

Foster, Catherine Painter
The domestic modes of production and consumption for four chronologically distinct 4th-millennium households at Kenan Tepe are identified through the analysis of domestic artifact trends and intensive microdebris sampling. Beads of various materials are mentioned throughout the text.
Francis, Peter, Jr.
A report on the museum’s collection of ca. 700 excavated beads, ca. 5th-13th centuries, including information on materials, manufacturing technique, and uses.

A more popular account of the Nishapur beads in the collections of the Metropolitan Museum of Art in New York.


Beads from four sites involved in the Early Islamic trade (7th to 12th centuries) represent the role that the Muslim world played in the Indian Ocean trade.

On the recent history of glass beadmaking in Cairo (Egypt), Hebron (Palestine), and Turkey.

Contains much interesting information from historical sources on trade with various northern and western parts of Africa and on Hebron (Palestine), Fustat (Egypt), Tyre (Lebanon), Damascus (Syria), Herat (Afghanistan), and other manufacturing centers.

2002 Beads. In Fustat Finds, edited by Jere L. Bacharach. American University in Cairo Press, Cairo. The beads from the Awad collection of artifacts from Fustat in Old Cairo, Egypt, are not entirely homogeneous, but for the most part can be attributed to the Fustat or Early Islamic Period, 7th to 12th centuries. They provide added information about beadmaking and importing at this time.

An appendix to the final excavation report on an 11th-millennium-B.C. cemetery and contemporary nearby settlement site in Iraqi Kurdistan. It deals with stone and bone beads, followed by a section dealing with drilling technology. Most of the stone beads were simple plain pink calcite discoids, but a single greenstone (described as jade) triple spacer was also found. The bone beads were mostly tubular, and the process of making these is carefully described.

Frangipane, M. et al.
A tomb in eastern Anatolia raises questions about connections with the Caucasus and/or Transcaucasia. It contained beads of gold, silver, copper, carnelian, and rock crystal. More than 100 small cylindrical limestone beads around the man’s head and chest were perhaps sewn onto a garment or veil (pp. 108-111, 121).

Frifelt, Karen
Some 13,000 beads were recovered from an island site off Abu Dhabi, UAE: mostly very small, probably sewn onto clothing. Interesting discussion of materials, both local (“talcose steatite”) and imported.

Frifelt, Karen et al.
1995 The Island of Umm an-Nar, Volume 2: The Third Millennium Settlement. Aarhus University Press.
Perforated *Conus* and *Strombus* shells were found at a late-3rd-millennium coastal site, UAE. Evidence for beads was surprisingly rare (pp. 117, 120, 225).

A hoard of some 250 beads (mostly glass but also carnelian, agate, alabaster, amethyst, crystal, turquoise, coral, and shell) and some 100 stray finds were recovered from Islamic contexts at Qala’at al-Bahrain (pp. 151-154, figs. 309-319, color. pl. 4).

Frish, B., G. Mansfield, G. and W.-R. Thiele
Late Bronze Age frit and faience beads (pp. 79, 111f.), Lebanon.

Fritz, V. and A. Kempinski

Galter, Hannes D.
Provides a list of cylindrical beads that bear Assyrian royal inscriptions, including curses, and provides their translations.

Gansell, A.R.
Assemblages of adornments (including many well-known bead items) are used to interpret the social and ritual identities of the dead and begin to clarify dynamics of group and individual identity at Ur in Iraq.
**Garfinkel, Y.**


Discusses Neolithic stone beadmaking at a site in northern Israel.


Deals with the ritual burial of cultic objects in the Near East during the Neolithic and Chalcolithic periods. These items are not grave goods associated with human burials but objects buried on their own because of their ritual significance. A cave of Pre-Pottery Neolithic B date had a “very rich collection of beads” deposited along with other objects.


Discusses Neolithic stone beadmaking at a site in northern Israel.

**Gates, Marie-Henriette**


The final season on the Late Bronze Age shipwreck off Uluburun (Kaş) “increased the previous collection by the thousands:” beads of faience, agate, ostrich eggshell, quartz, steatite, amber, and chalcedony.

**Gensheimer, T.R.**


Shell artifacts, including beads, from major Mesopotamian sites of the 4th and 5th millennia B.C. are critically reexamined in terms of their role in Mesopotamian contexts and their value as indicators of external trade/exchange contacts.

**Getzov, N.**


**Gibson, G. et al.**

2002  First Season of Syrian-American Investigations at Hamoukar, Hasekeh Province. *Iraq* 64:45-68.

Fluted double-conoid, trilobate, and unspecified other faience beads have been uncovered in Northern Middle Uruk (ca. 3700-3500 B.C.) contexts, plus unspecified shell, stone, and thousands of minute bone beads found in a cache (pp. 50, 53, 58).

**Gibson, M., R.L. Zettier, and J.A. Armstrong**


Describes a post-Kassite burial in Iraq with hundreds of beads, including frit, stone, and copper (p. 182, fig. 23).
Golani, Amir
Reports on the beads of stone, bone, shell, and siliceous materials (faience, Egyptian Blue, and glass) from Bronze and Iron Age tombs.

Beads and pendants were made of the following materials: glass, faience, shell, stone, bone, and ivory.


2013 Jewelry from the Iron Age II Levant. *Orbis Biblicalis et Orientalis, Series Archaeologica* 34.
The book provides a handy typological structure for jewelry classification as well as a comprehensive and useful catalog for research. In addition, it illustrates the significance, meaning, and functions of jewelry and the development of the jeweler’s craft in the southern Levant during the 1st and 2nd millennia BCE.

As protective amulets, the symbolic potency of the cowrie form was enhanced when it was duplicated in other materials that were often ascribed symbolic meaning of their own. As the form of the shell and not the shell itself was of significance, the use of other materials of symbolic power to produce the cowrie form served to emulate and enhance the cowrie’s amuletic protective powers.

The site produced beads and pendants of various materials including metal, faience, glass, bone, shell, stone, and terra cotta. It was occupied during the Middle and Late Bronze Age, the Iron Age, and the Persian period.

Golani, Amir and Benjamin Sass
This Iron Age site in Israel yielded 24 silver beads which may be divided into four specific types: granule beads (type 1.1), spiral wire beads (type 1.2), hollow spacer beads (type 1.4), and decorated, spherical, hollow beads (type 1.6).

Gorin-Rosen, Yael
2009 Glass Artifacts from Tomb 7 at Fardisya (East). *Atiqot* 61:75-82.
The recovered glass beads include flower-shaped, gold-glass, simple, and polygonal. There were also two stone beads. Israel. In Hebrew with an English summary.
Terminal Pleistocene hunter-gatherer marine mollusc assemblages in the Negev and Sinai display a relatively conservative development, whether in terms of the major species represented, their relative frequencies, or their modification. This agrees with lithic studies indicating considerable sociocultural continuity, notwithstanding cultural input from various directions and the identification of various specific groups through time. Israel, Egypt.

Gourley, Dale R.
Discusses the technology and production of these beads, based on findings from archaeological excavations.

Grajetzki, Wolfram
Beads and pendants as components of various items of female adornment are mentioned throughout the book. Ancient Egypt.

Green, Jack
Materials include glass, faience, stone, amber, bone, shell, and terra-cotta.

Green, John D.M.
The cemetery provides a rich set of archaeological data with which to examine changing aspects of social identity in death between the terminal Late Bronze Age and Early Iron Age (ca. 1250-800 B.C.). This study focuses on “personal” assemblages from the cemetery, particularly clothing attachments, jewellery, and beads associated with individuals of different age, gender, and status groups, and examines aspects of identity expression over time.

Groman-Yaroslavski, Iris, Danny Rosenberg, and Dani Nadel
Reports on the analysis of the large collection of flint perforators, beads, and bead production waste found at a site in Lower Jordan Valley Israel.
Groman-Yaroslavsky, Iris and Daniella E. Bar-Yosef Mayer

Use-wear analysis applied to two carnelian beads from the Middle Pre-Pottery Neolithic B period in southern Israel revealed a manufacturing procedure that corresponds to genuine lapidary technologies of contemporary traditional societies.

Gülçur, Sevil

More on this Bronze Age wreck off the coast of Turkey, but this time in German. Faience bicones were perhaps used as pinheads (fig. 17a).

Gündoğdu, Hamza

A very important study of a little-known craft tradition based in the northeastern Anatolian region of Oltu, Turkey, since the late 18th or early 19th century and still employing up to 6,000 individuals. The beads are usually strung on rosaries but were also sewn onto clothing. The raw material is extracted from local mines and the working is carried out in specialist workshops.

Hachlili, Rachel

In most cases, only single beads were placed with the deceased. Israel.

Haerinck, Ernie and Bruno Overlaet

The final report on two cemeteries in Iran. Beads were generally rare although a total of 115 chlorite (?) and two dentalium beads were found in one grave. Other reported materials comprise agate, carnelian, black chlorite, and an unidentified gray stone (pp. 24-25, pl. 54).


The final report on a cemetery in Iran. Beads were found in 8 of the 41 excavated graves: carnelian predominated but frit, glass paste, bronze, silver, ceramic, and unidentified stone beads, perforated shell discs, and a single glass eye bead were also recovered.


Shells beads are among the finds at two cemeteries in Iran.

The finds include shell beads.

The recovered beads are composed of stone (primarily carnelian and limestone), shell, bone, and metal (copper/bronze and silver); western Iran.

Beads were present in a large number of the tombs. Materials include various stones and shells, glass paste, and metal; western Iran.

Discusses the beads from Early Bronze Age I-III and IV contexts at a cemetery in western Iran.

Provides details on the tabular and biconical agate beads found at Gilviran in western Iran.

Hafsaas, Henriette
Beads, pendants, and amulets were uncovered at various sites in southern Egypt occupied by C-Group people. Materials include faience, stone, bone, ivory, metal, and ostrich eggshell. Of interest is a remnant of a thin leather girdle decorated with beads in a lozenge pattern and a waistband consisting of a triple row of beads around the pelvis and waist of a woman buried at Ashkeit.

Hakemi, Ali
1997 Shahdad: Archaeological Excavations of a Bronze Age Center in Iran. Istituto Italiano per il Medio ed Estremo Oriente, Reports and Memoirs 27.
Prese nts charts of the shapes of agate/carnelian, lapis lazuli, gypsum, and metal beads (pp. 655-658). Descriptions and illustrations by grave group, passim.

Hamilton, Naomi
Prese nts detailed analyses of the 1,000+ beads recovered from a very large Neolithic and Chalcolithic settlement in southern Anatolia, Turkey. The materials include dentalium and other marine shells, rare exotic stones such as serpentine, apatite and carnelian, and even metal (lead and copper), all imported to the site. Clay beads were presumably made on-site. There is evidence for bead manufacture. Materials identification in Jackson (2005).
Hankey, Vronwy
Discusses 176 beads of local types and materials: stone, amethyst (probably Middle Kingdom Egyptian), lapis lazuli, shell, and glass (pp. 175-177); 14th century B.C., Jordan.

Harper, P.O. et al.
Separate entries by Joan Aruz, Kim Benzel, and Ralf-Bernhardt Wartke describe and catalog beads (some reused from earlier periods) that were found in rich Old Assyrian and Middle Assyrian graves in Iraq (pp. 44-47, 50-55, 92-97, color. pls. 5-6, 9-11).

Harper, R.P. et al.
A small number of holed shells, glass beads, and a gold-glass bead were found. Israel.

Harrison, R. Martin and L.B. Hill
The site of a 6th-century church in central Istanbul, Turkey, produced numerous small finds including glass beads.

Hauptmann, Andreas et al.
Brief mention on p. 543 of the mis-identification of bead material from Çatal Hüyük, Turkey, in 1967, as lead.

Hawass, Zahi
Describes and illustrates the tomb of an Egyptian priest dating from around 500 B.C. The mummy was covered with a beaded shroud made of a great number of glazed (faience) beads.

Heimel, W.
On trade conducted by ancient Mesopotamian states with lands of the Persian Gulf and India. See pp. 51f. for lapis lazuli, carnelian, and other stones used for beads.

Heimpel, W.
Syria: new readings of 18th-century-B.C. Mari texts suggest necklaces with white and red beads shaped like termites and flies.
Hellyer, P.
Illustrates assorted beads from a 3rd-millennium tomb at Sufouh (p. 54), a necklace and disc carnelian beads from a tomb at Dhayah II in Ras al-Kbaimah (p. 70), and banded beads from a tomb at ed-Dur (p. 109), UAE.

Herrmann, C.
Discusses molds for standard types of ancient Egyptian faience amulets and drop and date-shaped beads.

Herzog, Ze’ev
1985  *Beer-Sheba II: The Early Iron Age Settlements.* *Tel Aviv University, Publications of the Institute of Archaeology* 7.
A few beads from this site in Israel (pl. 14).

Herzog, Ze’ev, George Rapp, Jr., and Ora Negbi
1989  *Excavations at Tel Michal, Israel.* *Monograph Series of the Institute of Archaeology of Tel Aviv University* 8.
Tel Michal was probably a maritime station for military or commercial use during its periods of occupation, which extended intermittently from the Canaanite period (Middle Bronze Age II, about 2000 B.C.E.) throughout the early Arab Period (9th century C.E.). Describes the recovered beads and pendants.

Higuchi, T. and T. Izumi (eds.)
Agate, silver, bronze, frit, plain, mosaic, and gold-glass beads in a variety of forms (pp. 84-86).

Hodgkinson, Anna K.
Deals with the beads and other adornments of glass, faience, and agate from a beadmaking site in Egypt.
Another article on the excavation and finds at the el-Amarna workshop.

Hoffmann, Birgitta
*British Institute of Persian Studies, Archaeological Monograph Series* II.
**Hoffmann, Birgitta, C. Tagart, and D. Mattingly**


On beads excavated in the Fazzan region of Libya.

**Højlund, Flemming and H. Hellmuth Andersen (eds.)**


Biconical burnished red clay beads that imitate agate/carnelian were found in Early Dilmun contexts. Isolated beads, usually biconical or cylindrical carnelian and greenish or turquoise faience, were found interred with Achaemenid-period snake burials in the Late Dilmun palace. Pierced pearls, spherical and biconical carnelian, single agate and quartz beads, a modified *Conus* ring, and a variety of colored glass beads were found with Achaemenid burials in the same excavation. Bahrain.

**Holland, Thomas A.**


The beads and pendants (category SF.4.b-c) are described by period: Bronze Age, Hellenistic, and Roman.

**Horn, Maarten**


Several beads and pendants found in Badarian graves in the Qau-Matmar region of Middle Egypt formerly identified as turquoise actually glazed steatite.


The material includes *Conus* shell beads. Israel.

**Hussein, Muzahem M. and Amer Suleiman**


**Hüttner, Michaela**


Objects in the Ancient Egyptian collection of the Kunsthistorisches Museum Wien include beads (pp. 10-13) and beadwork amulets (pls. 5, 11).
Ibrahim, M. and R.L. Gordon
1987 A Cemetery at Queen Alia International Airport. *Yarmouk University Publications, Institute of Archaeology and Anthropology Series I.*
Construction uncovered graves of Arab nomads in Jordan with Roman connections of the late 2nd to early 3rd centuries A.D. Beads in many materials *passim.*

Ibrahim, M. and N. Qadi
Discusses 1,000 stone beads, mostly thin discoids, from an Early/Middle Bronze Age tomb in Jordan.

Ilan, David
1992 A MBA Offering Deposit from Tel Dan and the Politics of Cultic Gifting. *Journal of the Institute of Archaeology of Tel Aviv University* 19(2):247-266.
A brief but admirably detailed publication on 48 Middle Bronze Age beads: carnelian, frit, and rock crystal (pp. 256f., figs. 9-10); Israel.

Ilan, David, Pamela Vandiver, and Maud Spaer
A detailed study of a spherical bead of translucent light green glass that appears to be the earliest glass find recovered so far in Israel. The specimen is attributable to the 1st or 2nd century of the 2nd millennium B.C.

Ingram, Rebecca Suzanne
2005 Faience and Glass Beads from the Late Bronze Age Shipwreck at Uluburun. M.A. thesis. Texas A&M University, College Station.
The cargo of the Bronze Age (late 14th century B.C.) Uluburun shipwreck, Turkey, included approximately 75,000 faience beads and 9,500 glass beads which are thoroughly studied.

Offers an introduction to the faience and wound glass beads found on the shipwreck (late 14th century B.C.) at Uluburun, Turkey, with an emphasis on manufacture and their role aboard the ship.

Inizan, M., M. Jazim, and F. Mermier
Initial data on the hand crafting of carnelian in Yemen.

Insoll, Timothy et al.
Excavations at two mosques of the putative Early Islamic capital of Bahrain, in the area known as Bilaad al-Qadim, produced 61 beads of agate/carnelian, garnet, hematite, lapis lazuli, glass and frit, wood, and pearl. The total occupation period ranges from the 8th or early 9th century to the 13th-14th centuries.

**Iob, Agnese**


Deals with *usekh* collars in funerary wall reliefs and paintings from the Old to the New Kingdom, Ancient Egypt. Many of the collars incorporate beads of gold and faience.

**Jackson, B.**


Complements Hamilton (2005).

**Jackson-Tal, Ruth E.**


Eye beads and head-shaped pendants are discussed with numerous references to find spots in the region.


Round, square, biconical, rectangular, squat, ribbed, and cylindrical glass beads were recovered from a tomb in Israel, along with one stone and one faience bead.


Plain, eye, trailed, and crumb glass beads, as well as faience and stone beads, were recovered at HaGolan Street, Khirbet al-Hadra, Palestine. Late Roman and Byzantine periods.


Describes and illustrates the beads of glass, faience, agate, carnelian, and organic seeds coated with clay found at the Tel Barukh Cemetery, Israel. Late Roman and Byzantine periods.

**James, Frances W. And Patrick E. McGovern**


The beads recovered from this site in Israel include those made of faience, glass, frit, gold, and stone.

**Janssen, Jac J. and M. Rosalind**


Tiny copper beads (fig. 1) found inside an Egyptian amulet case. Some mention of other beads.
Jasim, Sabah Abboud
1985  The Ubaid Period in Iraq: Recent Excavations in the Hamrin Region. British Archaeological Reports, International Series 267, I & II.
Frit beads (Part I, p. 69; Part II, figs. 64-65).

Granulated gold beads and a soft-stone bead with dotted circle decoration were found in Parthian graves (pp. 74, 76, figs. 8, 11: 7). UAE.

Jean-Marie, Marylou
1999  Tombes et nécropoles de Mari. Institut Français d’Archéologie du Proche-Orient, Bibliothèque Archéologique et Historique CLIII.
Beads of carnelian and gypsum were recovered from the site of Mari in Syria.

Jick, Millicent
The only ancient Egyptian bead-net dress extant in the world, now reconstructed at the Museum of Fine Arts in Boston.

Joukowsky, Martha S.
1986  Prehistoric Aphrodisias: An Account of the Excavations and Artifact Studies. Archaeologia Transatlantica III.
Some beads of various materials from a site in western Turkey.

Kampschulte, I. and W. Orthmann
Excavations at Tawi, Syria, uncovered graves of the 3rd millennium that contained some beads (p. 112, fig. 33, pl. 42 and passim).

Kanawati, N., A. El-Khouli, A. McFarlane, and N.V. Maksoud
Beads from Old Kingdom tombs, pp. 60-70 passim, Egypt.

Kertesz, Trude
Describes beads of faience, frit, glass, stone, bone, and plaster, some earlier Iron Age contexts but mostly from a cemetery of the Persian period (525-300 B.C.). Many parallels given. See also Mienis (2015).

Kiesewetter, Henrike, Hans-Peter Uerpmann, and Sabah A. Jasim
Agate, anhydrite, carnelian, chert, crinoid, limestone, serpentine, various snail shells, coral, pearls, mother-of-pearl, and marine fossil beads were found associated with 5th-millennium-B.C. burials in southeast Arabia, UAE. Some beads were worn as pendants but the majority were originally entwined in the hair, or formed part of belts, loincloths, dresses, beaded bracelets, and necklaces.

**Killick, R.G. (ed.)**
Sixteen plain clay and stone beads (pp. 31-34, fig. 26).

**Klebinder-Gauss, G.**
2007  Bronzefunde aus dem Artemision von Ephesos. Österreichischen Akademie der Wissenschaften, *Forschungen in Ephesos XII(3).*
Bronze beads and pendants from the temple of Diana of the Ephesians (pp. 109-133, 221-222), Turkey.

**Klengel-Brandt, Evelyn et al.**
Syria: Iron Age graves with bead necklaces and armlets of stone, bronze/copper, glass, etc. (pp. 64, 66, fig. 13). Early Bronze Age grave with one rock crystal and three carnelian beads (p. 72f.).

**Klimscha, Florian**
A sealed vessel containing thousands of beads was found at Tall Hujayrat al-Ghuzlan (ca. 4th millennium B.C.). Most of the beads were made of shell or stone but steatite beads were also present, as were imported ostrich eggshell beads.

**Kochavi, M.**
Excavations yielded 224 beads, mostly faience discoid or annular of a type paralleled elsewhere in Late Bronze Age Canaan (pp. xxiii, 43, 42).

**Kohlmeyer, Kay and Eva Strommenger**
Syria: A hoard of more than 1,000 beads, mostly small vitreous (*Fritte*), and a few carnelian (p. 52, fig. 6).

**Koutsoukou, A. et al.**
A small number of Iron Age/Hellenistic and later glass, carnelian (?), and shell beads were reported. Jordan.
Kozlowski, Stefan Karol
2002 Nemrik: An Aceramic Village in Northern Iraq. Warsaw University, Institute of Archaeology, Światołowit Supplement Series, P: Prehistory and Middle Ages VIII.
A synthetic excavation report on one of the earliest settlements yet excavated in Iraq. The site was not sieved as the intention was to excavate practically the whole village. A small number of simple shell, stone, and clay beads were recovered, particularly from graves (pp. 84-85, pls. CLIV-CLVII).

Kroeper, Karla and D. Wildung
Beads from Pre- and Protodynastic graves near Cairo, Egypt (pp. 89f.).

Kröger, Jens
Describes the 46 glass beads recovered from the splendid medieval city of Nishapur in northeastern Iran.

Ktalav, I. and O. Borowski
2010 Molluscs from Iron Age Tel Halif. Tel Aviv 37:31-39.
Most of the recovered marine shells were holed and/or polished, indicating their use as ornaments and amulets, either as pendants or sewn onto fabric. Many were found in association with a textile-producing workshop.

Kucharczyk, Renata
The site yielded a variety of glass beads as well as stone molds used for shaping drawn collared beads, all attributed to the 4th-6th centuries A.D. Egypt.

Küçükerman, Önder
Some odd statements, such as glass beads not being vitreous, but good photographs of beads being made in western Turkey.

Kuhn, Steven L., Mary C. Stiner, David S. Reese, and Erkisn Güleç
Two sites located on the northern Levantine coast, Üçağızlı Cave (Turkey) and Ksar ‘Akil (Lebanon), have yielded numerous marine shell beads in association with early Upper Paleolithic stone tools. Accelerator mass spectrometry (AMS) radiocarbon dates indicate ages between 39,000 and 41,000 radiocarbon years (roughly 41,000-43,000 calendar years) for the oldest ornament-bearing levels in Üçağızlı Cave.

Kurzawska, Aldona, Daniella E. Bar-Yosef Mayer, and Henk K. Mienis

Presents the first step of a project that intends to re-evaluate the role of scaphopod (tusk) shells in prehistoric societies in the Levant.

Kutterer, Adelina U. and Roland De Beauclair

The remains of three individuals uncovered at a substantial Neolithic graveyard of the 5th millennium B.C. in the Central Region of the Sharjah Emirate, United Arab Emirates, were richly adorned with different kinds of beads found in the head and neck areas.

Lechevallier, M.

On a small collection of stone beads from a Late Natufian settlement at Hatoula, western Judea, Israel.

Lester, A.

Typological discussion with parallels; Early Islamic cylindrical crystal bead, Crusader glass and carnelian beads, and Late Ottoman glass seed, disc, double-faceted, and painted imitations of marvered beads from a burial (pp. 215-217). Israel.

Levy, Thomas E., Russell B. Adams, and Adolfo Muniz

The most ubiquitous grave offerings found in the WFD 40 cemetery were beads strung in necklaces, bracelets, and anklets. They were made from a wide variety of minerals as well as bone, coral, shell, and, very occasionally, glass.

Limmer, Abigail Susan

This study reveals that jewelry communicated information about the wearer by its presence or absence, serving as wealth storage and administrative device, displaying gender and status, and functioning as amulets. The beads and pendants recovered from excavations at several sites in Israel are described in Appendix B; the pendants in Appendix E.

Limper, Klaudia
Beads range from the Uruk period to the Sassanid. Table 1 provides basic data (shape, material, date). Table 2 provides parallels from other sites. Well illustrated. Iraq.

**Lion, B. and C. Michel**  
1997  
Comments on insect-shaped beads referred to as *rimmatum* and *zumbum* in texts of the early 2nd millennium B.C., Syria.

**Lischi, Silvia and Alexia Pavan**  
2012  
Le perle di Sumhuram: appunti per una tipologiadi vaghi di collana dall'Arabia meridionale.  
*Egitto e Vicino Oriente* XXXV:175-192.  
Towards a typology for necklace beads of shell, glass, stone, metal, and bone recovered at Sumhuram in Oman. The site was occupied from the 3rd century B.C. until its permanent abandonment in the 5th century A.D.

**Ludvik, G., M. Pieniżek, and M. Kenoyer**  
2014  
Discusses the beads found at Hattuša in central Turkey and their production technology. The beads were formed from both soft stone, like serpentine and limestone, and also hard stone like lapis lazuli, rock crystal, and agate, carnelian, and onyx.

**Maher, L.A., T. Richter, and J.T. Stock**  
2012  
Traces the cultural and biological developments of the Epipaleolithic period leading up to the Natufian and considers the long-term trajectory of culture change, social complexity, and village life in the Near East. Beads enter into the discussion.

**Maréchal, Claudine**  
1991  
On the ornaments of the Late Natufian culture, an Epipaleolithic culture that existed from 13,000 to 9,800 B.C. in the Eastern Mediterranean region.

**Maréchal, Claudine and Hala Alarashi**  
2008  
Presents a thorough discussion of the beads of stone, shell, bone, and ivory from this site in northern Syria which was occupied between 10,200 and 8,000 B.C. and is the eponymous type site for the Mureybetian culture, a subdivision of Pre-Pottery Neolithic A (PPNA).

**Markowitz, Yvonne and Sheila Shear**  
2002  
Gives the archaeological context of the earliest surviving (6th Dynasty; 2675-2194 B.C.) broad collar and details its construction, materials, and restoration. Ancient Egypt.
Matthews, Roger J.
A grave yielded over 100 beads of various materials, including a green stone axe-shaped bead and carnelian which help to date it to Early Dynastic I (p. 246 and fig. 10).

Matthews, Roger J., W. Matthews, and H. McDonald
Gold leaf, diamond-shaped beads, a lapis lazuli date-cluster bead, and 11 carnelian beads form part of a hoard dating probably to the middle of the Akkadian period (pp. 185-186, fig. 8).

McDermott, LeRoy
Deer tooth pendants and beads used from the Upper Paleolithic onwards may have symbolic meaning because of the resemblance to breast shape. Do they explain the “multiple breasts” or “necklaces” of Artemis?

McDonald, Helen
An important final publication of mainly mid-2nd-millennium material, specifically plain and decorated glass (fig. 223), frit/faience, including red frit (figs. 224-225), stone (fig. 226), clay, bone, and shell (figs. 236, 239) beads, mostly from the reception room of a small palatial building in northeastern Syria.

McGovern, Patrick E.
Dozens of beads cataloged and classified according to Beck’s system. Includes a section on silicate technology and analytical techniques. Jordan.

The 13th-century levels yielded the largest collection of glass and faience jewelry so far found in Late Bronze Age Palestine – more than 1,500 beads and 300 pendants which perhaps adorned a cult statue.

McGovern, P.E., S.J. Fleming, and C.P. Swann
Important article on the typology, manufacture, and composition of some 140 beads from a 17th-16th-centuries tomb in northwestern Iran. The 58 glass and frit beads form one of the earliest sizeable groups of these materials yet found. Made locally?

McMahon, Augusta (ed.)
Descriptions of the beads recovered from this major site in Iraq are scattered throughout the book.
Melandri, Ingrid
Dating to the XII Dynasty, the anklets are composed of lapis lazuli, carnelian, and turquoise beads with
gold spacers and claw-shaped pendants inlaid with semi-precious stones.

Mellink, Machtedl
Mentions beads from various sites and periods (pp. 131-139). Turkey.

Merpert, N. Ya. and R.M. Munchaev
Beads in bone, shell, and many kinds of decorative stone, including the most striking necklace yet known
from a Hassuna (6th millennium) site.

Mershen, B.
1989 Amulets and Jewelry from Jordan – A Study on the Function and Meaning of Recent Bead

Méry, Sophie, V. Charpentier, G. Auxiette, and E. Pelle
2009 A Dugong Bone Mound: The Neolithic Ritual Site on Akab in Umm al-Quwain, United Arab
A structured platform of dugong bones had dispersed within it a number of ornaments. Beads made from
shells (*Spondylus* sp., *P. margaritifera*, *Strombus decorus persicus*, *Ancila* sp., etc.) are present, but the
most frequent are the tubular beads with angled distal double perforation, of a type which is very rare in
other Neolithic sites of the Gulf. Some of these beads are in soft stone (steatite or chlorite).

Messika, N.
Cowrie shell and other beads from an extensive cemetery in Israel, 5th-4th centuries B.C. In Hebrew with
English summary.

Meyer, Carol
Briefly describes and illustrates the Mamluk period (13th-14th centuries) glass beads of wound and drawn
construction excavated at a trading site on the east coast of Egypt.

Mienis, Henk K.
Discusses shell beads made from the opercula of the land snail *Pomatias olivieri* that have been found at a
Neolithic site (9500-6000 B.P.) in Nahal Oren, Mount Carmel, Israel, as well as at the Late Roman-
Byzantine site (about 300-600 C.E.) of Horvat Raqit, in the same mountain range.

Bronze Age burials were accompanied by perforated marine shells of various species.


**Milevski, Ianir Isaac**


Deals with localized exchange within the southern Levant. Items dealt with include beads and pendants of shell, ivory, and stone, particularly, carnelian. Israel.

**Miroshedji, P. de**


Handsome necklace from an Acaemenid burial in Iran with granulated beads discussed in some detail (pp. 31f., fig. 6, Pl. IV:4). Other beads *passim*.

**Mitchell, Stephen**


Buldan, Late Roman, and Byzantine tombs with beads (p. 146); 500+ amber beads were found at the Ephesian Artemision, including many in teardrop shape from large necklaces which perhaps adorned the ancient wooden cult statue and may be the predecessors of the famous “eggs” of the later cult image (p. 150). Turkey.

**Mizrachi, Y. et al.**


Roughly spherical and ovoid carnelian, wood, and unidentified-material beads from a Late Bronze Age tomb (pp. 184-185, fig. 15), compared to beads from Tell el Ajul and Qadesh.

**Moon, Jane**


Excavation of this settlement (early 2nd millennium B.C.) in Bahrain produced beads of shell (pp. 176-180) and carnelian, chlorite, and clay (pp. 181-187). All are believed to have been locally made. Woolley’s Ur bead typology was employed for descriptions of shape.

**Moorey, P.R.S.**

This is the first systematic attempt to survey in detail the archaeological evidence for the crafts and
craftsmanship of the Sumerians, Babylonians, and Assyrians in Ancient Mesopotamia, covering the
period ca. 8000-300 B.C. Bead and pendant materials include faience, glass, metal, stone, and shell.

1994  *Ancient Mesopotamian Materials and Industries: The Archaeological Evidence.* Eisenbrauns,
Winona Lake, IN.

**Morrison, H.M.**
A detailed study of the 177 beads excavated at the ancient capital of Hadramaut, Yemen, mainly from
tombs of the 1st and 4th centuries A.D.: 54% glass, plus stone (50% carnelian), copper, gold, frit,

**Mukherjee, A.J. et al.**
2008  *The Qatna Lion: Scientific Confirmation of Baltic Amber in Late Bronze Age Syria.* *Antiquity*
82:49-59.
Analyses reveal the Baltic origin of about 90 amber beads and a unique small container carved in the
shape of a lion’s head, luxury gifts in a royal tomb dated not later than 1340 B.C. Few Bronze Age sites
in Syria have amber; Qatna now has by far the most. The lion head container was locally carved; some
beads were probably also cut locally. Analytical techniques and cultural background are expounded in
detail.

**Müller, H.W. and E. Thiem**
Many beads, not only on necklaces but as elements of other ornaments. Large color photographs.

**Müller-Karpe, H.**
Hundreds of beads of gold and fine stones from a woman’s grave (fig. 4) in Iraq.

**Munchaev, R.M. and N.Y. Merpert**
2001  *Northern Mesopotamia: Findings of the Russian Expedition.* *Archaeology, Ethnology and
Anthropology of Eurasia* 2(6):82-96.
Illustrates some of the rich necklaces recovered from burials from the second half of the 3rd millennium
B.C. at Tell Hazan I in Iraq. Materials include stone, shell, and paste.

**Nakai, Izumi, K. Tantrakarn, N. Kato, N. Kawai, A. Nishisaka and S. Yoshimura**
2009  XRF Analysis of 16th Century BC Transparent Glass Beads Excavated from a Hillside in
Northwest Saqqara, Egypt. In *Annales du 17e Congrès de l’Association Internationale pour
Transparent glass is rare in Egypt prior to Ptolemaic times. Consequently, the Saqqara beads (which are
attributed to the late Second Intermediate Period or the early 18th Dynasty) may be among the earliest
glass objects found in Egypt.
Nayeem, M.A.
1998 Qatar: Prehistory and Protohistory from the Most Ancient Times (ca. 1,000,000 to End of B.C. Era). Prehistory and the Protohistory of the Arabian Peninsula 5.
Color plates and a summary description based on published reports of beads from al Da’sa, Ras Abaruk, al Khor, and al Wusail (pp. 211-217).

Needler, Winifred
Catalogue raisonné of beads from Henri de Morgan’s excavations of 1906-1908, including some items previously unpublished (pp. 308-313).

Neely, J.A., H.T. Wright et al.
An oolitic marble disc bead from a 3rd-millennium and later tell site at Baulah, Iran (pp. 80-81).

Negahban, Ezat O.
“Several necklaces” found near a possible workshop area at an Elamite site, ca. 1505-1350 B.C., include beads of various shapes made of red carnelian and other stones, frit, and Egyptian blue. One bead is shaped like a fly; another like a squirrel-like animal (p. 113, pl. 56).

Chapter 7 is devoted to Jewelry and Ornaments, and provides a detailed catalog of the various necklaces composed of beads and pendants of gold, carnelian, agate, gypsum, transparent stone, frit, glass, fired clay, shell, bone, and “a black substance.” The site is in northern Iran and dates ca. 3000 B.P.

Nigro, Lorenzo
Discusses the restoration of a four-strand necklace composed of beads of carnelian, rock crystal, olivine, frit, bone, shell, copper, and amethyst. The study of the materials has made it possible to determine the supply routes which brought them to the site from the Arabian Peninsula and the Red Sea regions.

Northedge, A., A. Bamber, and M. Roaf
1988 Excavations at Ána Qal’a Island. British School of Archaeology in Iraq and Directorate of Antiquities, Archaeology Reports 1.
A few beads, 9th-8th centuries B.C. and Islamic (pp. 132-134, fig. 57).

Novák, M. and A. Oettel
A Parthian-Roman site in Syria produced two glass face beads (p. 332). One face bead (fig. 14) and a necklace apparently of carnelian, glass, and faience (fig. 21) are illustrated in color.
A wide variety of beads was recovered from the site of ancient Nagar in Iraq. Materials include gold, silver, stone (carnelian, lapis, rock crystal), faience, frit, and shell.

A hoard of gold jewelry dating to the 10th century B.C. includes several granulated gold beads. Results of the analysis of the gold are also provided.

Detailed typological study with tables and illustrations of over 450 beads found in an early-2nd-millennium-B.C. (Isin-Larsa) structure at a site on the middle Euphrates in Iraq. Carnelian predominates. Other materials include agate, crystal, amethyst, frit/faience, limestone, alabaster/marble, lapis, hematite, amber, turquoise, green stone, ceramic, and bone. Shell and metal beads are considered separately.

Euphrates Dam rescue site, mostly Isin-Larsa or Old Babylon. Brief mention of bronze and gold beads, including a gold bead of five balls joined to create a segmented bead effect (p. 87, figs. 2, 8a). Iraq.

A Late Assyrian adult burial was accompanied by a bronze ring and a necklace of (reused?) discoid and spherical carnelian beads, discoid faience beads, 8 pierced Engelina mendicaria shells, and several crystal (?) beads (p. 3, pl. 49a).

Annual report on archaeological activity in Turkey. Mentions beads of several shapes (pp. 196-197, fig. 8 nos. 8-12). Hittite, period of the Assyrian trading colonies.

Several sites in Pusht-i Kuh, Iran, yielded shell beads.

The first-named site is Early Neolithic and was manufacturing beads of *Spondylus* shell and malachite before copper began to be exploited. This is the first malachite workshop known in the region, an interesting industry in the archaeologically little-explored region which bridges Europe and the Middle East. Turkey.

**Ozgen, I. and J. Oztürk**


Beads reportedly from Lydian tombs at Usak, Turkey: cylindrical and barrel beads of carnelian and banded onyx strung with triangular carnelian and onyx pendants with flat rectangular carnelian spacers; gold granulated beads, tapered reddish-brown stone and lapis lazuli (mistaken for blue glass) beads set as acorn pendants; and a banded agate bead with twisted gold suspension loop, paralleled at Sardis.

**Özgüc, Tahsin and Raci Temizer**


Discusses two treasures hidden in pots under the house floor by their Early Bronze Age owner. The beads are mostly gold and silver with some carnelian and rock crystal; also some quadruple spiral beads. Parallels with other Anatolian sites suggest trade. Turkey.

**Patch, Diana Craig**


Many of the adornments discussed (such as necklaces, broad collars, bracelets, and amulets) incorporate beads of various materials. Ancient Egypt.

**Payne, Joan C.**


Good descriptions of beads in many materials, including organic, threaded on linen and hair (pp. 203-217). Glazed carnelian is a surprise, as is the rarity of faience. Ancient Egypt.

**Paz, Sarit**


Discusses the beads recovered from several burial caves near Tell ‘Ara, Israel, that date to the Middle and Late Bronze Age.

**Peck, William**


On the use of single biconical carnelian beads as amulets in ancient Egypt.

**Peltenburg, E.J.**


Gold, silver, rock crystal, carnelian, shell, and vitreous-material beads from Early Bronze Age tombs.
Peltenburg, E.J. et al.
Finds include a necklace of disc, barrel, biconical, and globular beads made of faience and an unidentified black material found in a late-3rd-millennium tomb.

Pfalzner, P.
The Middle Bronze Age tomb at Qatna contained bodies that had been interred fully dressed, with hundreds of gold and glass beads. The funerary rituals have been analyzed in detail, since the tombs were unlooted.

Pic, M.
Shell rings and pendants were found in a tomb of the mid-3rd millennium B.C. excavated in Syria in 1923. Assorted other beads from other contexts are also cataloged.

Pieniżek, Magda
Discusses selected examples of jewelry from Troy VI and VII (18th-11th cent. B.C.), Turkey. Beads include those of faience, carnelian, rock crystal, and glass.

Discusses the body and dress ornaments (beads included) from the Northern Aegean: their socio-political context, repertoire, meaning, and function, based on selected examples. Turkey.

Discusses the cross-cultural connections in the northern Aegean area in the Late Bronze Age, as seen through the prism of personal jewelry (including beads of various materials). Special attention is given to the eastern part of this area, in particular two sites: Troy and Beşik-Tepe, Turkey.

Pieniżek, Magda and Ekin Kozal
Middle and Late Bronze Age sites in Turkey and Greece have yielded a great number of dress and body
ornaments made of glass, faience, frit, stone, semiprecious stone, metal, ivory, shell, and clay. This article
discusses selected aspects related to the meaning and origin of the ornaments, their local production, and
role in interregional trade networks and fashion between the Aegean and Mesopotamia.

Piller, Christian Konrad and Ali Mahfroozi
2009 First Preliminary Report on the Joint Iranian-German Excavations at Gohar Tappe, Māzandarān,
Iran. *Archäologische Mitteilungen aus Iran und Turan* 41:1-33.
Describes the beads and pendants recovered from Late Bronze Age/Early Iron Age contexts at the site.
The principal materials are frit and glass, but metal, stone, shell, bone, and jet ornaments are also present.

Pinch, Geraldine
A whole chapter on beads (including an unique reed-packet type) describing how various kinds were
strung and used in ancient Egypt.

Not only red; see p. 183 for remarks on the blue and green colors of many beads.

Pinder-Wilson, R. H. and G.T. Scanlon
Seven barrel-shaped beads decorated with opaque colored threads, ca. A.D. 900, from excavations at
Fustat (Old Cairo), Egypt.

Pinnock, Frances
Levels dated 2350-2300 B.C. yielded 1,045 beads of 14 types, all similar to those from neighboring
regions except for one group, which perhaps were part of priestesses’ insignia. Syria.

Piperno, Marcello
1979 Socio-Economic Implications from the Graveyard of Shahr-i-Sokhta. *In South Asian
Seminario di Studi Asiatici, *Series Minor* VI.
Beads are used as one of the indicators of relative wealth and social position in a cemetery of the third
millennium B.C. in Iran.

Pisan, Alessandra, Paolo Biagi, and Giorgio Gasparotto
In *Man and Environment in the Arab World in Light of Archaeological Discoveries, Vol. 1,* edited
by A.R. Al-Anshery, K.I. Al-Muaikel, and A.M. Alsharek, pp. 73-84. Al-Sudayri Foundation,
Riyadh.
Some 374 beads of stone and marine shell were recovered. This paper discusses the chronology,
typology, raw materials, manufacturing techniques, and circulation along the southern coast of the
Arabian sea during the 5th millennium B.P.
Platt, Elizabeth E.
Presents a good overview of the ornaments (beads included) utilized in the Levant region from the stone age to the Arab period.

Politakis, Konstantinos D.
Selected beads recovered from Middle Bronze Age cairn tombs are illustrated.

Discusses the beads recovered from Early Bronze Age I, Middle Bronze Age IIA/B, and later contexts.

Pollock, Susan
1987 Abu Salabikh, the Uruk Mound 1985-86. Iraq XLIX:121-141.
A few beads are mentioned, mostly shell (pierced univalves) but also one of lapis lazuli (p. 140).

Discuss the social and religious significance of the graves which produced famous assemblages of beads. Iraq.

Porat, L.
Five faience beads from a mid-4th-century burial cave in Israel are illustrated on p. 84.

Porter, A.
A mid-3rd-millennium grave in Syria contained over 100 frit, shell, stone, and bone beads, including nine mold-made frit beads representing stylized human faces (p. 9, figs. 9-10).

Postgate, J.N.
Early Dynastic grave with lapis lazuli, carnelian, and frit beads, and a triple spacer (p. 97).

Potts, D.T.
A hoard of jewelry from eastern Saudi Arabia includes gold granulated and stone beads, Hellenistic, ca. 200 B.C. (?) (pp. 56-67). Agate, carnelian, and frit/faience beads (pp. 67-69, fig. 104).

Early Bronze Age site Tell Abraq in the United Arab Emirates (UAE), in a land known to Sumerians as Magan, has yielded hundreds of beads of agate, carnelian, paste, steatite, shell, bone, and gold. The few
illustrated promise interesting information in the eventual full report. Tin trade linked the site with Bactria, Iran, Elam, Mesopotamia, and the Indus Valley.

Potts, D.T. et al.
A perforated cowrie shell (*Cypraea clandestina*) came from a small Iron II site overlooking the Batinah coastal plain, UAE.

Prévalet, Romain
2009 Preliminary Observation on Three Late Bronze Age Gold Items from Ras Shamra-Ugarit (Syria). Archéosciences 33:129-133.
Describes the technical characteristics of the filigree and granulation of two gold beads, as well as the joining processes that were employed by the craftsmen of a famous Levantine kingdom at the end of the 2nd millennium B.C.

A detailed study of the technology and production of gold ornaments, including beads and pendants, in the Eastern Mediterranean during the Bronze Age and the transmission of the techniques.

Presents an overview of the manufacture of gold jewelry in Syria during the Bronze Age, beads included.

Reconstructs the technical processes employed in the 3rd millennium B.C. to produce a gold bead decorated with filigree and granulation at Tell Banat, Syria.

Pritchard, James B.
Frit beads from houses of the 9th or 8th century B.C. (pp. 6, 9, fig. 5), Jordan.

Pulak, C.
More amber, stone, and faience beads (pp. 24-25).

2002 The Cargo of the Uluburun Ship and Evidence for Trade with the Aegean and Beyond. In Italy and Cyprus in Antiquity 1500-450 BC. Proceedings of an International Symposium held at the Italian Academy for Advanced Studies in America at Columbia University, November 16-18,
This Late Bronze Age shipwreck off the coast of Turkey is dated to the late 14th century B.C. Various glass beads were found on board (pp. 25-30, 43f).

Typically Mycenaean beads (e.g., glass relief-beads and faience “grain of wheat” beads as well as 41 amber beads) found on the wreck were probably the property of two Mycenaean individuals, perhaps merchants or diplomats. Turkey.

Puller, Judith

A few very early beads of clay, stone, and shell are presented passim.

Raven, M.J.

Includes information on beads of resin, sometimes confused with amber, from Predynastic to Roman times. Ancient Egypt.

Reade, Julian

A popular survey with good photos of beads from various periods: Neolithic (fig. 12), famous Ur graves (figs. 59-61), Akkadian, long carnelians, etched carnelians, etc., imported from India (fig. 77), and early faience (fig. 80).

Redford, Susan

The catalog itemizes the relatively few beads recovered from excavations at the city of Mendes in the Nile delta. Materials include faience, glass, lapis lazuli, alabaster, and carnelian. Ancient Egypt.

Reese, David S.

Shell beads, especially “conus whorls,” nerita, and cowrie types, bear significantly on trade relations. Jordan.

1988 Recent Invertebrates as Votive Gifts. In The Egyptian Mining Temple at Timna, by B. Rothenberg, pp. 260-265. Institute for Archaeo-Metallurgical Studies, Institute of Archaeology. Several shell species were used as ornament, including cowries, at a Late Bronze Age site near the Red Sea, Israel.

Most of the recovered shells were used for ornament: dentalia and vermetid “beads” and holed shells. Jordan.

1989 Treasures from the Sea: Shells and Shell Ornaments from Hasanlu IVB. *Expedition* 31(2-3):80-86.

Shell beads were found in northwestern Iran in a temple burned in the 9th century. Most were offerings in storage with other beads; some were worn by victims trapped in the fire.


Full survey covering many sites and well illustrating the long-distance movement of shells for adornment from the earliest times.


Middle Assyrian site (1400-1200 B.C.) with 633 shells, mostly *Arcularia* from the distant Mediterranean; also 9 disc beads and various holed shells.


Includes *Conus*, etc., and Early Bronze Age shell spacer-bars of a type not previously reported from Jordan.


Stone Age shells classified by date, site, and species include some worked as beads, especially dentalium.


Neolithic ornaments made of shells from both the Mediterranean and the Red Sea (138f.).

Reeves, C.N.


The earliest colorless glass has previously been thought to date from about a century later than these beads, which are put at 1497-88 B.C. Ancient Egypt.

Rehm, Ellen


Thorough survey of Persian jewelry types, 550-330 B.C., including a whole chapter on beads with discussion and drawings of over 80 types (pp. 88-111, figs. 63-71).
The earliest-known iron artifacts are nine small beads securely dated to circa 3200 B.C. from two burials in Gerzeh, northern Egypt. The beads were made from meteoritic iron and shaped by careful hammering the metal into thin sheets before rolling them into tubes. The beads were strung into a necklace together with other exotic minerals such as lapis lazuli, gold and carnelian, revealing the status of meteoritic iron as a special material on a par with precious metal and gem stones.

Rehren, Thilo and E.B. Pusch
The site, dated to ca. 1250-1200 BC, has produced evidence for glassmaking from raw ingredients, rather than using imported glass ingots. There is evidence that some workshops may have specialized in producing certain colors. Glass beads were found on site; also large numbers of faience beads.

Reiche, Andrzej
Tumulus grave SMQ 30 with its 600 beads and other adornments is, so far, one of the richest graves excavated in the As-Sabbiya region. The ornaments were made mainly of shell, mother-of-pearl, and soft stone, but two pierced pearls and a few lapis lazuli beads were also present. The grave is attributed to the Bronze Age based on the presence of a dotted-circles motif carved on a mother-of-pearl pendant.

Rezvani, H. and K. Roustaei
Shell beads are among the finds.

Rice, M.
Triangular carnelian beads (probably 8th century B.C.) and gold beads, perhaps early 2nd millennium (p. 83).

Robinson, E.D.G.
Includes a list of beads and pendants now in Sydney, Australia, from the Late Bronze Age Amman airport temple and from Neolithic and Chalcolithic Teleilat Ghassul, Jordan.

Roehrig, Catherine H.
Beads from the early Middle Kingdom grave of Wah; e.g., a necklace of hollow gold beads, a faience broad collar, and a lone carnelian bead as an amulet (p. 19, figs. 20-23). Ancient Egypt.
Rollefson, G.O.
Analysis of the lithic material recovered from this large Late Pre-Pottery Neolithic B settlement in southern Jordan demonstrated a focus on drill production, ostensibly for the manufacture of beads.

Rollefson, G.O. and Z. Kafafi
A small number of beads are reported from early neolithic occupation contexts at this important site and are identified as malachite, tooth, bird bone, Cerithium, and possibly coral.

Rosen, S.A.
Evidence is presented for the manufacture of ostrich eggshell and imported Red Sea/Mediterranean marine shell beads using flint microdrills at this Early Bronze Age II (ca. 3000-2700 B.C.) site in Israel which is interpreted as having belonged to pastoral nomads.

Rosen, S.A, Y. Avni, and D.E. Bar-Yosef Mayer
Early Bronze Age II (ca. 3000-2700 B.C.) material from Israel.

Rosenow, Leah
Bronze Age, Syria.

Rothman, Mitchell S.
Prepresents a re-analysis of material excavated at Tepe Gawra which is dated to 4400-3700 B.C. A wide variety of beads and pendants is discussed.

Rubinson, Karen S.
Many beads, mostly frit and glass (pp. 381-383, 391), but also stone and shell, with a few preserved in the original order of stringing, and an ivory squat cone. Also twisted silver wire beads (p. 386, no. 43). Iran.

Ruffle, J.
A reference to bead finds in the earliest settlement periods from around 6800 B.C. at an oasis in the Western Desert of Egypt (p. 14). These include ostrich eggshell, carnelian, and other stone.
Russell, Nerissa
2005 Catalhöyük Worked Bone. In Excavations at Çatalhöyük, Volume 5. Changing Materialities at Çatalhöyük: Reports from the 1995-1999 Seasons, edited by Ian Hodder, pp. 339-367. Monographs of the McDonald Institute for Archaeological Research, University of Cambridge. Ornaments include bone beads (mostly tubular) and pendants, as well as preforms. Also red deer canine teeth. The site is a very large Neolithic and Chalcolithic settlement in southern Anatolia, Turkey.


Rutkowski, Łukasz
This colorful booklet illustrates an array of the stone and shell beads recovered from this site apparently dating to the late 3rd and first half of the 2nd millennium B.C. (Dilmun Culture). For a detailed study of the beads, see Reiche (2010).

Ryholt, Kim
1997 A Bead of King Ranisonb and a Note on King Qemaw. Göttinger Miscellen 156:95-100. An inscription on a glazed steatite bead is the first contemporary attestation of an obscure 13th-Dynasty pharaoh to come to light. Ancient Egypt.

Sadeh, S.
1996 Small Finds. In Excavations at Tel Dalit. An Early Bronze Age Walled Town in Central Israel, by R. Gophna et al., pp 143-152. Ramot Publishing House, Tel Aviv. Describes a single flattened circular chalk bead (pp. 144-145, fig. 69:11).

Saidah, Roger

Saleh, A.-A.
1983 Excavations at Heliopolis, Ancient Egyptian Dunû. Vol. II. Cairo University, Faculty of Archaeology. Faience beads over the face of the mummy of a woman, perhaps serving as a mask.

Salles, Jean-François
Beads of various periods (including fine Hellenistic specimens) from an island off Kuwait.

**Sarkhosh, Curtis, V. Simpson, and St John Simpson**  
Trailed glass beads from Early Iron Age graves at Kaluraz in northwest Iran (p. 191); carnelian and silver (?) beads, gold lotus palmette pendants, and a Bes-head pendant from Achaemenid burials also in northwest Iran (pp. 188-189); and glass-paste melon beads are reported from a 1st- or 2nd-century vaulted subterranean tomb excavated at Gelalak, southwest Iran (p. 191).

**Sass, Benjamin**  
This site in Israel produced 10 beads of carnelian, jasper (?), shell, paste, and glass.

**Sass, Benjamin and Gilad Cinamon**  
Located in northern Israel, this Bronze/Iron Age site yielded a variety of beads including those of faience, glass, stone, and shell.

**Scandone Matthiae, Gabriella**  
Connects motifs and materials of the Lahun Treasure and other Middle Kingdom Egyptian jewelry with the goddesses Hathor and Nekhbet. Ancient Egypt.

**Scanlon, George T. and Ralph Pinder-Wilson**  
A suspiciously small number of glass beads (totaling only 17, plus a rock crystal octagonal bicone from a 10th-century pit and a faceted carnelian cuboid) was apparently found in these extensive excavations in Old Cairo, Egypt (pp. 118-123, color pl. VII). The most significant of these were eight roughly spherical beads found in two 10th-century contexts; measuring ca. 2 cm across they were decorated with marvered polychrome canes.

**Schaub, T.R. and W.E. Rast**  
Numerous beads with many materials and shapes represented; Early Bronze Age, Jordan.

**Schaunsee, M. de**  
Comments on the decorative inlays on the exterior of a crude, possibly locally made, stone footed goblet excavated in the 9th-century-B.C. level IVB at Hasanlu (northwest Iran). It has pre-formed glass floral inlays, set either between re-used tubular Egyptian Blue, spherical, or barrel-shaped carnelian and glass
barrel beads, and usually banded with inlaid gold strips. Similar floral inlays found at Assyrian sites in Iraq are believed to come from Phoenicia or southern Syria.

Schefeltowicz, N.

Schmidt, E.F., M.N. Van Loon, and H.H. Curvers
A wide variety of beads of various materials dating to the Bronze and Iron ages were recovered at a number of sites in western Iran.

Schoske, Sylvia
Ancient Egypt: see no. 116 with remarks on bead belts as the professional costume of dancing girls; no. 117 on the meaning of bead collars; and no. 122, a fertility idol with hair made from beads of unbaked mud.

Schoske, Sylvia et al.
Predynastic grave group from Matmar, Egypt, with beads described as carnelian, agate, calcite, faience, and (without comment) lapis lazuli and amber (p. 34, fig. 30).

Schwartz, G.M. et al.
Many beads were found (pp. 331-332). Two exceptional gold beads are illustrated: one a flat triangle with raised star design, the other flanged and with double collars of wire (p. 332, fig. 9; p. 334, fig. 14). Vessels of Early Bronze IV type date perhaps ca. 2300 B.C.

Seligman, J., J. Zias, and H. Stark
Brown and dark blue glass and faience melon beads, a fluted brown glass bead, and stone bead from a late 4th- or early-5th-century cave tomb, Israel.

Sevin, Veli and Ersin Kavaklı
Preliminary report on an Urartian cemetery, Turkey. Beads were worn on necklaces, attached to bracelets, earrings, and pin-pendants. Biconical, spherical, cylindrical, elliptical, lentoid, disc, and barrel shapes were found. Most common materials were agate, carnelian, plain and decorated marvered glass, and frit. Amethyst, rock crystal, bronze, bone, and “faience” were less common. Perforated shells (Conus, Cypraea, and Dentalium) were rare (pp. 29, 37-44, 55-57).
Shaw, Ian and Robert Jameson
Highly organized mines of a material used principally for beads; Middle Kingdom, ancient Egypt.

Sheftelowitz, Na’ama
A useful detailed analysis with identifications, illustrations, and one color photograph of beads (2 shell) from a late neolithic occupation; Early Bronze Age tombs and occupation (17, mostly decomposed, thus “white” faience); Middle Bronze Age tombs and occupation (116, with a wider range of materials); and Iron Age contexts (14, various materials).

Shortland, A.
Presents an analysis of a rare antimony bead from 3rd millennium B.C. levels at Jerablus Tahtani, near Carchemish in Syria.

Simak, E.
Spindle whorls are sometimes mistaken for beads. This survey shows the variety of shapes, colors, and decorations to be found among them.


Sode, Torben
1996  *Anatolski Glasperler*. THOT, Copenhagen.
Ethnographic study of glass beadmakers in western Anatolia (Turkey). In Danish with English summary.

Presents a detailed account of the beadmaking process as practiced today in western Anatolia, Turkey.

Sode, Torben and Ulrich Schnell
Describes the continuing manufacture of faience beads in the village of Qourna, near Luxor, together with the method and an analysis of the ingredients used.

Solecki, Ralph S., Rose L. Solecki, and Anagnostis P. Agelarakis
Discusses the beads of stone, gastropod shells, crab claws, and copper recovered from this site in Iraq. An appendix presents a detailed report on the beads prepared by Peter Francis, Jr. (2004).

**Sowada, Karin**
Chapter 4 presents a corpus of Egyptian imports in Canaan. Materials include beads of faience, shell, carnelian, calcite, quartz, lapis lazuli, and copper. Ancient Egypt.

**Spaer, Maud**
Presents a catalog of 647 small glass objects including beads and pendants. A shortcoming is that all of the material appears to have been donated and therefore lacks sound provenance data.

Reports on the beads and pendants from Tell Hazor, an important archaeological site in upper Galilee, Israel; 2nd-1st millennia B.C.

Proffers a possible production sequence for the so-called “Fustat” beads found in Old Cairo, Egypt, which mainly date to the 9th-10th centuries.

**Spencer, Neal**
Beads, pendants, and amulets of various materials recovered from a site in Lower Egypt are discussed throughout the report.

**Spoor, Richard H. and Pieter Collet**
Provides details of a few beads from 6th-millennium-B.C. domestic contexts: gypsum, bone and snail-shell plus imported breccia, grey-green gabbro, obsidian, rock crystal, serpentine, and red schali. A child burial contained a necklace of circular rock crystal beads and a bracelet of cylindrical bone beads.

**Spurr, S., N. Reeves, and S. Quirke**
Exhibition catalog. A cloth doll has fine blue faience beads in her hair (p. 18). There is also a graduated blue faience globular-bead necklace (p. 19) of the kind worn in the hair, especially by dancing girls, and carrying associations of sensuality and fertility. Both Middle Kingdom, ancient Egypt.
Steimer-Herbet, Tara
Cemeteries of the 3rd and 2nd millennia B.C. yielded 1,000+ beads: carnelian discoids, clay and bone beads, also small beads of chlorite paste whose small perforations suggest they were used on clothing or in the hair.

Stein, G. et al.
Grave goods accompanying a Late Achaemenid burial include colored faience, striped glass, rock crystal, and two large silver beads (pp. 122-123, fig. 16).

Stern, Edna J.
Plain, molded, and trail-decorated glass beads are illustrated on p. 125 from a burial cave in Israel dated by associated finds to the early 4th-early 5th centuries A.D. In Hebrew with English summary.

Stiner, Mary C.
This study considers the cultural and ecological contexts of marine shell ornament use at Riparo Mochi on the Ligurian coast of Italy (5 assemblages, 36-9 kyr BP), and at Üçağızlı Cave on the Hatay coast of Turkey (7 assemblages, 41-17 kyr BP). Both sites contain long Upper Paleolithic artifactual and faunal series, including the earliest phases.

Stiner, Mary C. and Steven L. Kuhn
Discusses criteria used to distinguish early mollusc-shell beads from other kinds of shells in archaeological deposits, focusing on evidence from the site of Üçağızlı Cave in Turkey. Upper Paleolithic beadmakers at this and other sites clearly preferred certain forms of shell for ornamental purposes, although the reasons for that selectivity remain obscure.

Stiner, Mary C., Steven L. Kuhn, and Erksin Güleç
Ten early Upper Paleolithic layers in Üçağızlı Cave I (41-29 uncalibrated ky BP) on the Hatay coast of southern Turkey preserve a rich and varied record of early upper Paleolithic life, including the production and use of large numbers of shell ornaments. This study examines shell bead production, use, and discard in relation to site function and the diversity of on-site human activities.

Stone, Elizabeth C., P. Zimansky et al.
2004 *The Anatomy of a Mesopotamian City: Survey and Soundings at Mashkan-Shapir*. Eisenbrauns, Winona Lake, IN.
The “final report” on investigations of a major city in southern Iraq occupied during the early 2nd millennium B.C. The small number of beads recovered are tabulated and briefly discussed; most are carnelian spheres, larger elongated hematite beads, and grey/black stone disc spacers, plus a single lapis bead, a multiple spacer bead made of steatite (pp. 119-120), and several beads made of shell (p. 132). Frit beads were noted as rare.

**Strouhal, Eugen**

Beads, mostly bone and glass, but also shell, wood, and stone (pp. 223-227, figs. 151-152). Egypt.

**Summers, G. and F. Summers**

An ivory inlay showing an animal frieze, decorated with amber beads and set with small reflective plates of silver or tin behind each, was excavated at this large fortified Late Iron Age, possibly Median, site in central Turkey.

**Sumner, William M.**

Discusses the stone, shell, gold, and organic beads of the Banesh Period (ca. 3400-2600 B.C.) levels in Operation ABC at Malyan.

**Szefiąg, Dariusz**

A settlement in northern Syria dated primarily to the second half of the 3rd millennium B.C. yielded a collection of beads and pendants made of shell and nacre, mostly from funerary contexts.


The beads found in association with the pendants are illustrated.

**Tabaza, Khalil**

Discusses folk jewelry, including necklaces composed of beads of various materials, worn in Jordan during the 19th and the first half of the 20th century.

**Tal, Oren and Itamar Taxel**
Numerous glass, carnelian, faience, and wooden beads (some found in groups, indicating their original use in necklaces) were found at several sites in Israel.

**Talbät, G.C.**

**Talon, P. and K. van Lerberghe (eds.)**
1997 *En Syrie: aux Origines de l’Écriture.* Brepols, Bruxelles. Beads of various materials from various sites in Syria are illustrated and discussed.

**Taniguchi, Y., Y. Hirao, Y. Shimadzu, and A. Tsuneki**
2002 The First Fake? Imitation Turquoise Beads Recovered from a Syrian Neolithic Site, Tell el-Kerkh. *Studies in Conservation* 47(3):175-183. Analysis of three turquoise-blue beads revealed that they were an alternative to and imitation of natural turquoise beads. They are formed of an apatite core with a turquoise color obtained probably by the heating of manganese or iron compounds. The microstructure and chemical composition of the beads indicate the use of mammal tooth or tusk, possibly "odontolite" (fossil ivory).

**Taniichi, T.**

**Testa, P.**

**Then-Obluskaa, Joanna and Laure Dussubieux**
2016 Glass Bead Trade in the Early Roman and Mamluk Quseir Ports – A View from the Oriental Institute Museum Assemblage. *Archaeological Research in Asia* 6:81-103, doi:10.1016/j.ara.2016.02.008. Reports on an interdisciplinary study of 35 beads found mostly at Quseir port sites in Egypt; Roman Myos Hormos (1st-3rd c. A.D.) and Late Ayyubid-Mamluk Quseir el-Qadim (13th-14th c. A.D.) periods.

**Thrane, Henrik**
2001 *Excavations at Tepe Guran in Luristan: The Bronze Age and Iron Age Periods.* Aarhus University Press.
Beads of carnelian, shell, and “frit/glass” (pp. 112-114, pls. 66-68) from western Iran.

**Toffolo, Michael B., E. Klein, R. Elbaum, A.J. Aja, D.M. Master, and E. Boaretto**


The microstructure and chemical composition of eight faience beads from an early Iron Age (12th century BCE) assemblage found in the ancient city port of Ashkelon (Israel) were determined by means of FTIR spectrometry, pXRF, microRaman, and SEM-EDS analysis. The results are compared with published data on Egyptian and Near Eastern artifacts.

**Török, L.**


A silver bead bracelet, a late antique Egyptian import, was found with the burial of a queen (p. 121).

**Tsuneki, Akira and Yutaka Miyake (eds.)**

1998 *Excavations at Tell Ümm Qseir in Middle Khabur Valley, North Syria. Report of the 1996 Season.* University of Tsukuba, Institute of History and Anthropology, Department of Archaeology, Tsukuba, Japan.

Quartz, turquoise, unidentified white stone beads, and locally made holed shells were found at a Halaf occupation site (pp. 109, 120).

**Tubb, J.N.**


Stone, shell, and faience beads from a Jordan valley site. Conical calcite beads came from a waist ornament (p. 49).

**Tucker, D.**


Perhaps a craftsman’s hoard; includes stone, shell, glass, and faience beads.

**Tuncer Manzakoğlu, Bilgen and Salıha Türkmenoğlu Berkan**


Investigates the role of culture, geography, and history in the myth of the evil eye bead in Turkey.

**University of Pennsylvania**


Lavishly illustrated in color, this book presents a spectacular collection of archaeological and artistic treasures covering the extent of Egyptian art from the Predynastic period of the fourth millennium B.C.E. to the Greco-Roman period of the fourth century C.E. Includes splendid necklaces of garnet, carnelian, amethyst, beryl, and faience, as well as cowrie beads.

**Valdés, C.**

Two 3rd-millennium tombs in Syria yielded carnelian, rock crystal disc, obsidian disc, frit, dentalium, and cowrie and other shell beads.

van Loon, Maurits
1983 Hammâm et-Turkmân on the Balikh: First Results of the University of Amsterdam’s 1982 Excavation. Akkadica 35:1-23.

Middle Bronze Age II child burials in Syria with necklaces or bracelets of segmented and other faience beads, also a gold bead (p. 6, fig. 9A).

The finds include mosaic glass beads.

van Loon, M. and D. Meijer

As van Loon (1983).

Vanhaeren, M., F. d’Errico, C. Stringer, S.L. James, J.A. Todd, and H.K. Mienis

Perforated marine gastropod shells at the western Asian site of Skhul and the North African site of Oued Djebbana indicate the early use of beads by modern humans in these regions. Analyses of sediment matrix adhered to one Nassarius gibbosulus from Skhul indicate that the shell bead comes from a layer containing 10 human fossils and dating to 100,000 to 135,000 years ago, about 25,000 years earlier than previous evidence for personal decoration by modern humans in South Africa.

Vassiliki, Eleni

Included is a multi-tubular, late-18th-dynasty faience bead decorated with ankh and djed hieroglyphs, now British Museum EA 74323 (p. 194, no. 12). Ancient Egypt.

Veldmeijer, André J.

Discusses the beads of glass, faience, and a variety of semi-precious stones that adorn the footwear. Includes an image of an 18th-Dynasty wall painting that depicts beadmaking (p. 151).

Veli Yenisoganci, H.

Reports 72 beads of various stones, Hellenistic or Roman (p. 217, pl. 6). Turkey.
Verduci, Josephine

Among the objects discussed are shell and granular metal beads of Iron Age I-IIA periods (ca. 1200-900 B.C.) found at sites in the southern coastal plain of Israel.

Verhoeven, Marc

This site in Syria produced a translucent light red “butterfly” bead.


Contains a brief account, with bibliography, of the use of beads and pendants in the region: necklaces, bracelets, anklets, ear and hair ornaments, sewn onto cloth, clothing fasteners, etc. (pp. 240f.).

Vidale, Massimo

Deals with the production of beads from quartz, various semi-precious stones, faience, and organic materials found in Operation ABC at Tal-e Malyan, site of the Elamite royal city of Anshan. They date to the Banesh Period (ca. 3400-2600 B.C.).

Vogelsang-Eastwood, G.M.

The first specialist account of a fascinating subject: the pharaoh’s beaded tunics, kilt, and sandals beautifully illustrated. The sandals may be the very pair mentioned as a gift from the king of Mittani. Ancient Egypt.

Voigt, Mary M.

Shell and stone beads (pp. 260-263, fig. 117). Possible drill for manufacture (pp. 243f.).

Wachsmann, S.

A thorough reassessment of the Egyptian frescoes that show beads as a medium of contact with the Aegean (see esp. pp. 54f., 74f.).
Wakita, S. et al.  
Miscellaneous agate, greenstone, unidentified stone, clay, frit, and glass beads from Iron Age contexts (pp. 32, 36-38).

Walker, Bethany J.  
2001  Bangles, Beads and Bedouin: Excavating a Late Ottoman Cemetery in Jordan.  
Discusses the material from Tall Hisban which is attributed to the late 19th century.

2001  The Late Ottoman Cemetery in Field L, Tall Hisban.  
Objects buried with ca. 19th-century Bedouin burials in Jordan include necklaces of cowrie, agate, carnelian, jasper, ceramic, and glass seed beads and mother-of-pearl pendants.

Wartke, R.-B.  
A history and reassessment of this important Middle Assyrian grave in Iraq, with color photographs of its large and famous assemblage of beads, now rearranged.

Weinberg, Gladys D. (ed.)  
Some beads are mentioned in Chapter 8.

Wenn, C.C., K. Bortheim, E. Cappelletto, H. Indgjerde, and H. Kiesewetter  
2015  To the Bottom – Final Excavations in area B of the East Necropolis (Hierapolis, Turkey).  
_Nicolay Arkeologisk Tidsskrift_ 126:21-27.  
Highlights two bead types from Roman contexts: a black glass bead with two parallel holes and ribbed impressions on the surface, and a cylindrical hexagonal bead in green glass from a bracelet or necklace.

Whitcomb, D.S.  
Describes beads of various materials from a Sasanian fortress in Iran (p. 177, figs. 69-70).

Wilkinson, A.  

Williams, Bruce B.  

Beads of various materials, including some sewn onto leather garments, furnish evidence for trade southwards and with Egypt (pp. 83-94).

Beads include those of faience, metal, stone, shell, bone, and clay.

Beads of faience and ostrich eggshell; discoid, segmented, and star-shaped.

The recovered beads were relatively few in number but quite varied. Materials include glass, faience, metal, stone, and ostrich eggshell.

Beads include those of glass, faience, metal, stone, and ostrich eggshell. Amulets are also dealt with.

Bead materials include glass, faience, metal, stone, and ostrich eggshell.

Wright, Katherine I. (Karen)
Discusses the massive evidence for the production of beads made of green, red, and black “Dabba marble” at the Late Neolithic sites of Jilat 13 and 25 in eastern Jordan.

Presents a thorough discussion of the stone, shell, bone, and clay beads from a very large Neolithic and Chalcolithic settlement in southern Anatolia, Turkey.

Wright, K.I., P. Critchley, A.N. Garrard, R. Bains, D. Baird, and S. Groom
Stone bead production and exchange in Wadi Jilat and the Azraq Basin, Jordan.
Wright, Katherine I. and Andrew Garrard
Discusses evidence for stone bead production and use at six seasonally occupied aceramic neolithic campsites in the Wadi Jilat region of eastern Jordan. Most of the beads were made from a local colored stone, so-called “Dabba Marble,” but varieties of flint, silicified sandstone, white limestone/chalk, white quartz/calcite were also used. Long-distance imports were limited to two beads of malachite and turquoise, and a small number of Red Sea shells and mother-of-pearl beads.

Wygnańska, Zuzanna
Shell beads predominate but there are also examples of those made of pearls, stone, bone, bitumen, ostrich eggshell, and faience. Most of the ornaments can be placed in a broad time span covering the 5th through the 3rd millennium B.C.

Xia, Nai
Based on a Ph.D. dissertation written some 70 years ago, this book presents a detailed analysis and thorough study of the unique collection of Ancient Egyptian beads in the Petrie Museum of Egyptian Archaeology in London. Sections deal with the technical methods of beadmaking, classification, and chronology.

Yassine, Khair
Discusses over 400 beads from an Iron Age cemetery in Jordan (pp. 111-131).

Youkana, D. George
Turquoise and white stone beads are reported from primary (Archaic Hassuna) occupation levels at this important site in central Iraq. The report also summarizes the evidence for the spectacular Neolithic cemetery found in Level I which included turquoise, “onyx” (possibly agate), and “tubular shell” (dentalium) beads found in children’s graves.

Yule, Paul and Gerd Weisgerber
A grave in a Bronze Age cemetery excavated at Qorin es-Sahhaimah, Oman, contained over 350 enstatite microbeads, two shell beads, and a sole carnelian (p. 146, fig. 8).

Presents a brief overview of the beads recovered from Samad Period graves at a cemetery in Oman.
Zuckerman, S.

Detailed catalog of 47 Middle Bronze II/Achaemenid period stone and faience beads, principally from Iron II levels, discussed according to material. Israel.