

## INDEX

- Abu Ghalib, 290  
 Abu Salabikh, 33–34  
 Abusir, 272  
   papyri, 232, 280–86  
   P. Raneferef 44, 280–83  
   Userkaf sun temple, 284  
 Abusir el-Melek, 454  
 Abydos, xiii, 233, 244, 247–56, 270, 293,  
   297–98, 305, 308–10, 321  
   case study, 247–56  
   cylinder seal, 233  
 Acarnania, 349  
 Achaemenid Empire, xxviii, 97, 101, 116  
 Achaia, 349  
 Adab, 91  
 Adad-šarrum, 106  
 Adaima, 260  
 administration, 18, 85, 142, 185, 231, 299,  
   302, 322, 336, 339, 342, 345–48  
   accounting, 232  
   Akkadian period, 81–84  
   Akkadian period reforms, 94  
   centralization of seal production,  
     185  
   Crete, 338  
   Egypt, 265, 273, 280–83  
   gender, 254  
   Iranian Plateau, 21–23  
   Middle Kingdom, scarabs, 290–91  
   scarabs, 299  
   Uruk period, 16–18  
 administrative use of seal images, 7  
 adornment, 266, 268, 339  
 Aegean, 3, 5  
   ancient market for “antique”-looking seals,  
     364  
   appearance of sealings before writing,  
     345  
   Bronze Age, 356  
   Geometric period, 356  
   group identity, 8  
   imitation Egyptian hieroglyphs,  
     346  
   seal production, end of, 356  
   seals and non-elite status, 6  
 aesthetic  
   appeal, 82  
   choices, 121  
   value, 1, 334  
 Afghanistan  
   Harappan colony, 130  
 agate, 338, 341–42  
*agrimi*, 359–64, 456  
 Ahar-Banas culture, 136  
 Ahmose, 244  
 Aidonia, 352  
 Aigina, 345  
 Akhenaten, Pharaoh, 102, 116  
 Akkad, 66, 83, 85, 94  
 Akkadian period, 70, 81–94, 98–99  
   Dynasty, 83–84  
   Empire, archives of. *See* archives, Sargonic  
   language, 101, 116  
   objects impressed with seals, 87  
   Old Akkadian period, 19  
   style of seals vs. seals within the Akkadian  
     Period archaeological context, 85  
   use of seals in administration, 85  
 al-Khizr, 218, 219  
 alabaster, 33  
 Alasia, 116  
 Alassa, 110–12  
 Allah-dino, 129  
 Almond-Eye group, 344  
 Altyn Depe, 130  
 Amar-Sin, 105  
 Amara West, 321  
 Amarna, 310–12, 314, 324  
   amphorae stamps, 317  
 Amasis, 317  
 Amenemhat II, Pharaoh, 104  
 Amenemhat III [Nimaatre], Pharaoh, 293,  
   297  
 Amenhotep I, Pharaoh, 307  
 Amenhotep III, Pharaoh, 306  
 Amennakhte, 318  
 amethyst, 338, 341–42, 352  
 amphorae, 323  
   Egypt, 316–17  
 Amri, 129, 132, 135

- amulet cylinder, 266–67  
 Amun-Re, 307  
 amygdaloid seal form, 341, 368, 384  
 Ana-Sin-taklaku, 106  
 Anatolia, 20–21  
 Ancient Egypt Research Associates (AERA), 275  
 Anubis, 308  
 “Anubis–Mountain” seal type, 249  
 Anuwiko, 351  
*Ara Pacis Augustae*, 73  
 Archaeological Survey of India (ASI), xxiii  
     127  
 Archaic period, 4, 361, 364–65  
 Archanes, 108, 120  
 archival sealing system, 322–23  
 archival system (Egypt)  
     argument against, 300  
     argument for, 299–300  
 archives  
     Sargonic (Akkadian Empire), 84–85  
 Areika, 290  
 Argolid, 118, 337  
 Argos, 345  
 Arslantepe, 16–18, 34  
 Aruz, Joan, 75, 117  
 Ash Tip, 18  
 Ashkelon, 114  
 Ashur, 20  
 Askitario, 345  
 Askut, 293, 299, 309–10, 319–20, 322  
 Aššur, 115  
 Aššur-uballiṭ, 102–3  
 Assyrian  
     Old Assyrian Trading Colony period  
         (1950–1700 BCE), 106–7, 114–15  
 Asyut, xii  
 Attica, 120  
 AutoMontage software (Syncroscopy), 196  
 Avaris/Tell el-Dab’a, 242, 301  
 Ayia Irini, 346  
 Ayia Paraskevi, 114–15  
 Ayia Triada, 118, 329, 349, 370, 376–78, 380,  
     382, 395  
  
 Babylon, 207  
 Babylonia  
     Kassite period, 119  
 Babylonian  
     Middle Babylonian period, 101  
     Neo-Babylonian period, 101  
     Old Babylonian period, 101, 108  
 Bactria and Margiana Archaeological Complex  
     (BMAC), xxvi, 135–38. *See also* Oxus  
     Civilization  
 Bagasra, 131, 133, 145  
 Bahrain Island, 205, 207, 209, 214–15,  
     217, 222  
  
 Bal, Mieke, 146, 162–66  
 Balakot, 129, 177, 179  
 Balat, 236  
 Baluchistan, 129–31, 136, 179  
 Bampur River, 24, 32  
 Banawali, 128, 154, 158, 164, 179  
 Bandar Abbas, 24  
 Banerji, R. D., 128  
 bar seal, 135  
 Barbar temples, 214, 221  
 Baror, 131  
 Barthes, Roland, 161  
 Basch, Lucien, 365–66  
 Beit Khallaf, 269–70  
 belief system, 144–46, 166  
 Ben-Tor, Daphna, 303, 306, 386  
 Besenval, Roland, 129  
 biconvex, 341  
 bifacial, 135, 212–14, 221–22, 340,  
     346  
 Bisexagesimal B numerical system,  
     46  
 Bisht, R. S., 128  
 Boardman, John, 341, 356, 360, 391  
 Boeotia, 108, 117–19, 345  
 bone, 340–41  
 bow-drill, 38, 338, 342, 348, 391–92  
 bronze  
     carving tools, 194  
     knives, 343  
     trade, 343  
 Bronze Age, 96, 369  
     Aegean, 335–36, 339  
     Dilmun, 204  
     Early Bronze Age, 14, 22, 29, 335  
     Halil River valley, 22  
     Indus valley, 25, 128  
     Late Bronze Age, 7  
     Middle Bronze Age, 7  
     Oman Peninsula, 205  
 Bronze Age, Late  
     Cyprus, 107, 110, 112  
     recarving, 104  
 Bubastis, 260  
 Buhen, 244, 322  
     amphorae stamps, 317  
 bulla, bullae, 37, 87, 89, 345, 397  
 bulla label, 92  
 “bullman” image, 90–92  
 bureaucracy, 112, 324, 345  
     Mesopotamia, 58–60  
     Minoan, 331  
     Palace of Phaistos, 331  
     women, 63  
 Burnaburiaš, 119  
 Butler, Judith, 372  
 Buto, 260  
 Byzantine empire, 354

- calcite, 78  
 Canaan, 116, 241  
 Carchemish, 60–61  
 carnelian, 33, 130, 133, 190, 336, 338, 341–42, 388  
     foreign goods, 75  
     imported materials, 75  
 carvers  
     social groups, 201  
 carving style, 86  
 carving, experimental  
     directionality, 195–96  
 Casal, Jean-Marie, 129  
 Central Asia, 27, 130  
 chaîne opératoire, 192–94  
 chalcidony, 102  
 Chalcolithic, ix, xii  
     Late Chalcolithic Age, 14, 17, 38  
 Chanhu-daro, 143, 145, 159, 163–64, 188, 191, 194, 199  
 chimaera, 156, 453  
 chlorite, 27, 341, 360  
 Chogha Mish, 40, 49  
 City Seal style, 23  
 City Seals, 19–20  
 classification based on style  
     attempt to derive data from, 77  
 clay documents, 345  
 Clay sealing/Sealing, definition, 259  
 Cleuziou, Serge, 130  
 closure bulla, 87  
 Cohen, Andrew, 79  
 combat, 40  
 complex tokens, 38  
 connoisseurship, 370  
 cooking pot, 61–63  
 copper, 33  
     carving tools, 194  
     seal material, 131  
     source of, 130  
     tablets, 137, 147  
     tools for carving seal, 190  
     trade, 220  
     trade in, 23  
*Corpus der minoischen und mykenischen Siegel*  
     (CMS), 327, 334  
*Corpus of Indus Seals and Inscriptions* (CISI),  
     138, 173  
 Corridor House, 345–46  
 countersealing, 319  
 counterstamping, 311  
 craft production, 145, 171–72  
     identifying different carvers, 172  
 Cretan Popular Group, 341, 349, 352  
 Crete, 99, 117, 329  
     colonization, 335  
     cylinder seal, 117–18  
     household management, 331  
     Neopalatial period, 376, 388  
     second millennium BCE, xxvi  
 cuboid seal form, 141, 189, 341  
 Cunningham, Alexander, 127  
 Cylinder seal/Seal, definition, 259  
 Cypro-Minoan script, 107  
 Cyprus, 99, 115–17  
     cylinder seal, 107  
     Late Bronze Age, 107, 110, 112  
     Old Babylonian period, 114  
     re-carved cylinder seal, 96  
 Daimabad, 136  
 Dakhla oasis, 236  
 Dales, George, 129  
 Damin, 26, 32  
 Darish-libur, 106  
 Darius the Great, xxvii  
 Dāsa/Dasyu, 137  
 Deir el-Medina, 305, 318  
 Demotic, 247  
 Den, King, 454  
 dentines, 336  
 Dholavira, 128, 145, 161  
 Dietler, 78  
 Dikaios, Porphyrios, 112  
 Dilmun, xxvi, 8, 23, 25, 130, 136, 138, 204–26  
     meaning, 130  
     Mesopotamian influence on, 205  
 Dilmun Culture  
     Early Dilmun period, 204, 210  
 Dilmun Type seals, 211–14  
     chronology, 214–15  
     proto-Dilmun type, 211, 212  
     style IA, 212  
     style IB, 212  
     style II, 213–14  
     style III, 214  
 Dion, 456  
 Djedkare Izezi, 282  
 Djer  
     cylinder seals, 265  
     King, 262–64  
     sealings, 268  
     tomb of, 262–68  
 Dot-Eye Group, 344, 352  
 Dreyer, Günter, 260  
 drill, 344, 348  
 Dudu, 83  
*Duties of the Vizier* (New Kingdom text),  
     231, 249  
 Ea, 88  
 Early Dynastic period, Egypt, 7, 93–94, 232–37,  
     240, 244, 257–61, 265, 269, 271, 273  
 Early Dynastic period, Mesopotamia, 6, 17, 22,  
     25–26, 33–34, 68–70, 77–79, 83, 86, 88,  
     98–99, 102, 135

- eastern Mediterranean, xxvii–xxviii, 3, 95–123
- é-Bau institution (Girsu), 79
- Ebla, 60–62  
Palace G, 118
- Edfu, 242, 293
- Edge H-160 Three-Dimensional Real Time  
Microscope, 196
- Egypt, 3, 5, 116  
administration, 280–83  
Amarna period, 306  
brick stamp, funerary-style epithets, 245  
centralization of power, 293  
centralized sealing system, 300  
cylinder seal, 233–36, 268–69, 276, 294  
cylinder vs. stamp seal, xxv  
Early Dynastic period, 259  
early indigenous sealing practices, 261  
First Dynasty, 269–70  
First Millennium, 247  
funerary cones, 246  
funerary epithets, 255  
gender, 297–98  
institutional seals, 303  
Late Middle Kingdom, 255, 294–99  
Middle Bronze Age, 238  
Middle Kingdom, 302–3, 314  
administration, 302–3  
seal types, 303–6  
sealing practices, 308–10  
Nagada II (Gerzean) period, 233  
New Kingdom, seal types, 306–8  
sealing practices, 310  
Old Kingdom, 234–35, 273, 277, 280  
Predynastic seals, 260–61  
Royal archives, 294  
scarabs, 290–91  
administraton, 299  
function of, 294–99  
sealed objects, 233  
seals, appearance of, 230  
as form of accounting, 232  
associated with scribes, 277–79  
Second Dynasty, 269–70  
stamp seal, 238  
stamping of mud bricks, 244  
trade with Palestine, 261  
use of local and external institutional stamps, 249  
vessel sealings, 262  
words for seal, 101, 231
- Ekur (“mountain house,”  
the abode of the gods), 89–90
- Elam, xxvii, 20, 23, 40, 47, 116, 135
- Elephantine, 234, 256, 265, 269–70, 290,  
293, 308–9, 314, 320–21
- Eleusis, 352
- Eleutherna, 456
- Elis, 350
- Elkab, 259, 269–70
- el-Kubanieh South, 268, 270
- el-Lisht, 291
- Emar, 105
- EN system E, 48
- Enkomi, 99, 107, 112, 114, 117
- Epidamnos, 354
- Episkopi-Bamboula, 110–12
- ethnoarchaeological, ethnoarchaeology, x, 168, 172,  
174, 176
- Euboeia, 354
- Eutresis, 345
- Evans, Arthur, 330, 341, 358–59, 370, 388,  
390
- experimental archeology  
carving techniques, 194–98
- experimental seals, 194
- faience, 103, 170, 189, 243, 306  
tablets, 137, 146
- Failaka Island, 129, 211–12, 215, 217, 219–20
- Faiservis, Walter, 129, 191
- Fara, 18, 34
- Farmana, 148
- Fars, 28
- Feldman, Marian, 372, 453
- female burials  
seals, 79
- Final Palace period, Knossos, 342, 397
- finger ring, 243
- Fleet, J. F., 127
- Foster, A. L., 375
- Foster, Benjamin, 89
- Fourth Dynasty, 277
- Franke-Vogt, Ute, 139–40, 143, 148–49
- Frenez, Dennys, 142, 188
- funerary epithets, 303
- Gadd, C. J., 129
- Gasur, 91–92
- Gebelein, 278
- gender, 54, 62, 71–72, 254, 297–98  
archaeological study of, 54–55  
in functioning of society, 55
- Geometric Period, 356
- German Archaeological Institute in Cairo  
(DAIK), 259
- Ghaggar-Hakra river, 188
- Gilund, ix, 136, 222
- Girsu, 79, 207, 211
- Giza, 272  
Heit el-Ghurob, 110–12, 271, 275–76  
Khufu funerary barge, 284
- Gobryas, xxvii–xxviii
- gold, 33, 340, 342, 352  
seals, 78
- Gonur/Gonur Tepe, 27–29, 32, 130
- Gouged style seals, 29
- Goumia, 395

- Grabar, André, 157  
 Graphical Seal, 273–75  
 Great House, 284–86  
 Greater Indus  
   Greater Indus Valley, 140, 145  
 Greece, xxvi  
   cylinder seal, 118–19  
   word for seal, 102  
 Gujarat, 128, 131, 133, 136, 189  
 Gulf  
   Indus valley affinity, 129  
 Gulf style seals, 130, 137, 141, 150, 205–10  
   chronography, 210–11  
 Gungunum, King, 215, 221
- Habuba Kabira, 40  
 Hacnebi, 17–18, 34  
 Hafit culture, 205  
 Halil River Valley, 21–22, 24, 27  
 Hallo, William, 101  
 Harageh  
   tomb H470, 261  
 Harappa, x, 3, 8, 127–28, 131, 143, 145, 149, 156,  
   168–69, 173–74, 176, 189  
   clay “tag,” 222  
   Early Harappan phase, 131–32  
   Early Mature Harappan phase 3A, 132–36  
   Great Bath, 140  
   Integration era 2600–1900, 167  
   L area, 140  
   Late Harappan or Cemetery H phase,  
     136–37  
   Mature [Urban] period, 5, 136, 147  
   Middle Mature Harappan phase, 133–35  
   Mound AB, 181  
   Pit I, 181  
   Pre-Harappan phase, 130–31  
   Ravi phase, 147  
   script, 145  
 Harappa Archaeological Research Project  
   (HARP), 3, 145, 149, 168–69, 175  
 Haryana, 131, 179  
 Hatched-Border group, 26–27  
 Hayabum the Šabra, 64  
 heirloom seal, 120, 333, 339, 353  
 Heit el-Ghurub (HeG), 279  
   Pottery Mound, 274–76  
 Helladic, 328, 335–36  
 Helmand river valley, 24  
 Helwan, 265, 267  
 hematite, 102  
 Heqanakht papyri, 290–91, 313  
 Herakleion, 354, 356  
 Herakleion Ephorate of Prehistoric and Classical  
   Antiquities, 356  
 Heraklion Museum, 358, 367  
 Hercules, 365  
 Hetepsekhemwy, 267
- hieroglyphic script  
   origins of, 260  
 Horus name, 239, 273, 296, 303  
 Hurrians, 66  
 Huy, 307  
 Hyksos period (Dynasty 15), 241
- iconography, 393. *See also* scarabs, iconography  
 animal, 74, 344, 348  
 anthropomorphic, 27, 29, 32, 39, 44, 140, 147,  
   150–58, 207, 212  
 associated with the military structure of Lower  
   Nubia, 239  
 banquet, 55, 64, 68–80  
 battle, 42  
 beetle, 237  
 bird-woman, 378–80  
 birds, 114  
 bison, 141  
 bull, 27, 112, 131, 133–34, 154, 156, 158–59,  
   164, 166, 183, 190, 209, 211, 330, 332–33,  
   342  
 centaur, 156–57, 160  
 combat, 27, 42, 47, 55, 85, 112, 135, 154, 164,  
   332  
 commodity production and, 52  
 composite, 85, 150, 155–57, 214, 332, 378  
 contest, 76–77, 85–86, 91–92, 99, 135, 140,  
   158–59, 332  
 Cypro-Minoan, 107  
 deity, 27, 28–30, 88, 140, 217, 237  
 demons, 48, 108, 148, 157  
 devotional scenes, 161  
 divine, 88  
 divine adoration, 153–57, 161, 164  
 dog, 351  
 drinking scene, 221  
 early Pictographic writing, 338  
 elephant, 131, 133, 142, 150  
 feline, 131, 135  
 female, 27, 72, 112, 150, 333, 348, 378  
*Festsiegel*, 264  
 figural, 107, 115  
 figures, horned, 30  
 fish, 119, 200  
 funerary rituals, 74  
 gender, 52, 63, 72, 372  
 goat, 393  
 griffin, 108, 112, 114, 331–32, 342  
 horned, 153–55, 161, 180, 380  
   animals, 77, 149  
 headdress, 27, 32  
 Horns of consecration, 360, 364  
 Horus name, 273  
 human, 85, 88, 151–53, 212, 342, 356  
 hybrid style, 63  
 ibex, 220  
 lion, 44–46, 77, 91–92, 328

- iconography (cont.)  
 lion mask, 382  
 male, 28, 72, 112, 333, 348  
 master of animals, 110, 152–53, 158  
 Middle Minoan, 360  
 Minotaur, 332, 342  
 Mistress of the Animals, 108  
 monsters, 165, 342  
 mythological, 29, 93, 112, 114, 134, 148, 165  
 narrative, 49, 148  
 Neith-standard, 266  
 palms, 214  
 pigs, 49–50  
 pig-tailed women, 55, 57, 60  
 portrait, 214  
 presentation, 88–89, 99, 108  
 presentation style, 89  
 priest king, 42, 46–47, 49–50  
 prisoners, 49–50  
 religious scenes, 342  
 royal names, 303  
 sacrificial animals, 217  
 serpopod, 47  
 shaman, 38  
 sheep, 41  
 sphinx, 331  
 surroundings, 72  
 swallows, 375  
 tiger, 133, 155, 158  
 twins, 207  
 unicorn, 133–34, 137, 143, 145, 149, 152, 158, 166, 173–74, 176–85, 190–91, 198, 209, 223  
 warfare, 71  
 warriors, 136  
 water-buffalo, 133  
 yoga posture, 135, 154–55  
 Idean Cave, 118  
*lil-tawry*, 291, 293. *See also* Itj-Tawy  
 image-sign, 157  
 imagery  
   development of, 87  
 iNAA test, 34  
 Inanna, 20, 58, 72  
 Indus, 169  
   Mature Harappan, 132–36  
 Indus Civilization, 127–43  
   socio-political organization, 170  
 Indus River. *See* Indus Valley  
 Indus script, 129–30, 133, 136–38, 168, 182, 190, 206, 210, 226  
 Indus seals, 143  
   Early Harappan, 131–32  
   Pre-Harappan, 130–31  
   stamp, 133  
 Indus Valley, xxvi, 5, 8, 23, 75  
   Greater Indus Valley, 128–29, 130, 134, 136, 138  
   Lower Indus Valley, 179–80  
*Ineb-Hedj* (later Memphis), 233  
 inlay, 72, 75  
 Inninšaddū, 65  
 institutional seals, 303, 320  
 intaglio, 100, 146, 336  
 Intermediate Period (Egypt)  
   First Intermediate Period, 237  
   Second Intermediate Period, 244  
 Iran, 152  
 Iranian Plateau, 14, 25–27, 29  
   commercial use of seals, 21–23  
   Trench III, 25–26  
   Trench V, 25–26  
   Trench XIV, 23–24  
 Iri-Hor, King, 261  
 Iron Age, 96  
 Isin-Larsa period, 104, 108, 220–21  
 Isis, Queen, 307  
 Island Sanctuaries group, 351  
 Iswid, 270  
 Itj-Tawy, 241. *See also* *lil-tawry*  
 ivory, 328, 340–41  
 Jalalabad, 28  
 Jansen, Michael, 129, 138  
 Japanese Indus Project, 129  
 Jarrige, J.-F., 129  
 Jemdet Nasr, 18, 24, 55, 60, 64  
 Jerablus Tahtani, 61  
 Jezirah, the, 64  
 Jhukar, 128, 136  
 Jiroft, 22  
 Joint Hadd Project, 130  
 Kahun, 293, 305, 308, 310, 321  
 Kalamata, 345  
 Kalibangan, 128, 150, 180–81  
 Kanesh, 105  
 Kanmer, 129, 141, 223  
 Kaplony, Peter, 273  
 Karachi, 129  
 Karnak, 300  
   East Karnak, 290–91  
   North Karnak, 300, 323  
 Karystos, 354  
 Kassite, 104  
 Kassite period, 19, 119, 215  
 Kato Zakro, 395  
 Kauṭilya's Arthaśāstra, 141  
 Kea, 338  
 Keller, Cathleen, 312–13, 316  
 Kenna, Victor, 390, 395  
 Kenoyer, J. M., 129, 143, 149  
 Kerma, 242, 303, 308, 323  
   Western Deffufa, 242  
 Kerma culture  
   Classic Kerma period, 242  
 Kerman, 22–23, 27–28, 30  
 Kha, tomb of, 306, 311–12, 315  
 Khabur Basin, 9, 58, 64–66

- Khafre, 277, 279, 285  
 Khan, F. A., 129  
 Khania, 118, 339, 350, 395  
 Khasekhemwy, 267–68  
 Khepri, 102, 237  
 Khnumhotep, 274  
 Khuzistan, 17, 40, 93  
 Ki-en-gi league, 23  
 Kish, 128–29  
 Kition, 109, 114  
 Knossos, 118, 120, 329–32, 336, 338–39, 348, 351, 353, 395  
   destruction of, 352  
   Mycenaean administration, 339  
 Kolonna, 345  
 Kommos, 372  
 Konar Sandal, 21–22  
   Gouged Style seals, 29  
   Iranian community, 27  
 Konar Sandal North, 22  
 Kopanias, Konstantinos, 119  
 Kos, 120  
 Kot Diji, 129, 131, 141  
 Kourion, 114  
 Kouris River Valley, 110, 112  
 Kulli culture  
   “Kulli style A,” 132  
 Kültepe/Kanesh, 20, 106, 115  
 Kunal, 131  
*kunukku*. *See* seal, cylinder  
 Kush, 307  
 Kuwata, 351  
 Kythera, 117  
  
 Lagash, 90  
 Lal, B. B., 128  
*lapis laceaemonius*, 342  
*lapis lazuli*, xxvi–xxvii, 33  
   foreign goods, 75  
   imported materials, 75  
   seal material, 102, 106, 118, 120, 143  
   seals, 78  
   source of, 130  
   use, 76  
 Larsa, 215  
 Lasithi, 348  
   Lasithi plain, 348  
 Lassen, Agnete Wiste, 20, 106  
 Late Bronze Age  
   Aegean, 341, 343  
 Late Cypriot IIC period, 112  
 Laursen, Steffen Terp, x, 6, 8–9, 204–26  
 Lehner, Mark, 271, 275  
 lentoid, 341, 351–52  
 Lerna, 314, 320, 346  
   House of the Tiles, 345  
 Leroi-Gourhan, André, 192  
 Levant, 303  
   Aegean trading mission to, 349  
  
 Linear A, 117, 331, 338–39, 342, 347–48  
 Linear B, 5, 137, 331, 339, 342, 350, 353  
 linear-style seals, 30–32  
 Lothal, x, 128, 130, 136, 142, 145, 189  
 Lugal-ušumgal, 90  
  
 Mackay, Ernest, 128  
 Madjidzadeh, Yousef, 22  
 Magan, 23, 130  
 Mahadevan, Iravatham, 128  
 Maharashtra, 136  
 Mainland Popular Group, 341, 349, 352–53  
 Makran, 135  
   Kech–Makran coast, 129, 131  
 Malia, 118, 331, 338, 348, 379  
   prisms, 348  
   Workshop, 341, 343  
 Malqata, 244, 302–3, 307–8, 311–15, 318–20  
   amphora seals, 316–17  
   Middle Kingdom, 314  
   Palace of the King, 313  
   West Storehouse complex, 313  
   West Villa B, 313–15  
 Manishtushu, 23, 83–84  
 Manorama, 131  
 Marada, 89  
 Mari, 104, 106, 323  
 Marshall, Sir John, 127–28  
 Maš, 90  
 materials. *See under specific material name*  
 Mature Harappan period, 159, 165  
 Mazaraki Achaia, 456  
 Meadow, Richard, 129  
 Mehrgarh, 129–30, 143  
   Mehrgarh VI, 131  
 Meier, Samuel, 63  
 Meketra, tomb of, 290–91  
 Melos, 338, 364  
 Meluhha, xxvi, 130  
 Menkaure, 271, 277  
 Menkheperre seal, 306  
 Mentuhotep II, Pharaoh, 290  
 Mesara, 329, 341, 348, 363  
   Sopata Kouse tholos tomb, 356  
 Mesopotamia  
   administrative functions, Uruk period, 16–18  
   administrative role of seals in third millennium, 18–20  
   bureaucracy, 58–60  
   early third Millennium, 25  
   iconography, 152  
   Indus seals found in, 169  
   Jemdet Nasr period, 64  
   mortuary remains, 54  
   seals belonging to Iranian traditions, 26  
   textual sources, 141  
   trade relations with Iran, 33

- Metropolitan Museum of Art, 316, 358
- Middle Bronze Age
- Egypt, 238
- Middle Euphrates, 58, 60–63
- Middle Kingdom (Egypt), 237–42, 244–45, 255, 257, 259, 289–301, 319–24
- Miletos, 338
- military organization
- specialized use of seals, 239
- milk stones, 390
- Minab, 24
- Minet el-Beida, 108
- Minoan beads
- good luck charms, 390
- Minoan iconography
- ambiguity in, 370–71
  - gender, 372
  - swallows, 375
- Minoan period
- Early Minoan, 335
  - Early Minoan (EM) II, 328
  - Late Minoan IIIA<sub>2</sub> (LM IB), 120
  - Middle Minoan (MM IIB), 329, 331, 335, 338
- Minotaur, 332, 339, 342
- Mirambello bay, 348
- Mirgissa, 244, 310
- Miri Qalat, 135
- Mitanni, 116
- Mitrou, 345
- Mochlos, 118, 393
- Mode, Heinz, 128
- Moeller, Nadine, 455
- Mohenjo-daro, 128–29, 133, 135–42, 145, 147–48, 150, 152–58, 163–64, 169, 176–77, 179–80, 183, 185, 190–91, 211
- DKG area, 140
- Mohs scale, 189, 338, 341
- Monastiraki, 331
- Moorey, Roger, 33, 79
- Morgan, Lyvia, 371, 374–75, 383
- mortuary temple
- of Neferirkare, 286
  - of Raneferef at Abusir, 280, 283–88
- motif, *See* iconography
- Mount Dikte, 341
- Mughal, M. Rafique, 129
- multivalency, 5, 120, 368–86
- Mundigak, 129, 131
- Mycenae, 331
- House of Sphinxes, 351
  - House of the Oil Merchant, 350
  - House with the Frescoes, 353
- Mycenaean, tombs, 339, 352
- Mycenaeans, 332–33, 339
- used heirloom Minoan seals, 336
- Mycenae–Vapheio Lion Group, 330, 332, 352
- Myrtos, 338
- Nag'a ed-Deir, tomb at, 261
- Nagwada, 131
- Nanna, 73
- Naqada, 233
- Naqada culture
- Naqada II (Gerzean) period, 260, 272
- Naram-Sin, 66, 83–84, 86, 90, 92–94
- Narmer, 261
- narrative, 29, 40, 42, 45, 161–64
- Nausharo, 129, 131–32
- Naxos, 344
- nbty* motif, 291
- Nebunefér, King, 267
- Necropolis seal, 245, 249, 307, 317–18
- Neferirkare, 285
- mortuary temple, 280
  - papyri, 282
- Nefertiti, xxvii
- Neolithic period, 15, 335–36
- Late Neolithic, 15
- Neopalatial, 368
- Neo-Sumerian, 14
- Netjerikhet, 269
- New Kingdom (Egypt), 239, 242–47
- Niankhhknum
- tomb of, 274
- Nile Valley, xxv, 230, 233
- Nindowari, 129, 132–33, 135, 177, 179
- Ninetjer, 259, 267–68
- Ninevite 5 glyptic, 64
- Ninšubur (god), 106
- Nippur, 89, 323
- Nisaba (goddess), 63
- Nubia, 242, 244, 246, 303–5, 308–9
- Lower Nubia, 233, 239
  - Nubian forts, 321
- obsidian blades, 343
- Official's Seal, 273
- oikos*, 59, 61–63, 79
- Old Assyrian Trading Colony Period (1950–1700 BCE), 115. *See also* Old Babylonian period, *under* Babylonian
- Crete, 118
  - Cyprus, 114
- Old Iranian (language), 136
- Old Palace period (Crete), 329
- Old Syrian seal designs, 99, 118
- Oman, 23, 130, 205
- Osada, Toshiki, 129
- Osiris, 247, 259, 262
- ostrakon, 318
- Oxus Civilization, 29. *See also* Bactria and Margiana Archaeological Complex (BMAC)
- Palaikastro, 108, 117–18
- paleography, paleographic, 41, 44, 48, 269
- Pantheon Group (Tepe Yahya), 27–28



- Parennefer, tomb of, 316  
 passports, 141  
 Pawero, 307  
 Peribsen, 267  
 Persepolis Fortification archive, xxvii  
 Persian Gulf, as a major trade route, 205  
 Phaistos, 309, 320, 323, 329, 331, 338, 347–48  
     Palace of, 331  
 pharaonic and post-pharaonic periods, 230  
 Phthiotis, 345  
 phyle (imy-nfr.t (h division); ndꜥ; ꜥꜥ (ib division);  
     wꜥd.t, 282, 283–84, 285, 286, 287  
 Pictographic writing, 38, 338, 342  
 Pini, Ingo, 99, 367, 375, 380  
 pintaderas, 336  
 Pirak, 129, 136  
 Piramessa. *See* Avaris  
 Platanos Cluster, 357  
 Pole slung with vessels (Minoan)  
     similarity to Etruscan images, 365  
 Pollock, Susan, 55–56, 71, 79  
 Porada, Edith, xii, xxv, 78, 104, 119, 122  
 Poros-Katsambas, 393, 395  
 Posener-Krieger, Paule, 282–83, 286  
 Possehl, Greg, 129, 163, 170  
 Pottery Mound, 275–80  
 Prabhas Patan (Somnath), 136  
 Prajāpati, 134  
 Predynastic (Egypt)  
     Nagada II (Gerzean) period, 230  
 pre-literate periods, 36–37, 242  
 premodern Crete, 388  
 Prepalatial Crete, 331  
 priest king, 77  
 principal component analysis (PCA), 206  
 production, 170, 191  
 production practices  
     social group, 198  
 proto-cuneiform, 5, 13, 37, 40, 42–43, 50, 52  
 Proto-Dravidian, 138  
 proto-Elamite, 23, 135  
 Proto-Saka, 136  
 Proto-Šiva, 128, 141, 158 Pl. IX  
 Ptahmose, 307  
 Puabi, Queen, 77, 80  
 Pulitzer, Joseph, 359  
 Pune, 129  
 Pylos, 331, 333, 339, 350, 353  
  
 Qala'at al-Bahrain, 210–11, 215, 219–21, 224  
 Qaleh Kuckeck, 22  
  
 Rahman Dheri, 131  
 Rajasthan, 129, 131, 136, 172, 222  
 Rakic, Yelena, xii, 5–6, 8–9, 270  
 Ramesses II, Pharaoh, 306  
 Ramesside period, 246, 307  
 Raneb, King, 267  
 Raneferef, 272, 280, 282  
 Rao, S. R., 128, 130  
 Ra's al-Hadd, 130  
 recarving, 95  
     cylinder seal, 105, 121  
     evidence for, 97  
     figural, 109–15  
     reasons for, 95–100  
     trade, 95  
 Reisner, George A., 314  
 Rekhmira, tomb of, 307  
 replica rings, 330, 380  
 reuse, 8, 96, 98, 116, 252, 256, 299–300  
 Rhodian Hunt Group, 332, 351  
 Richter, Gisela, 359  
 Rimush, 15, 23, 83–84  
 ring, 329–30, 340  
 rock crystal, 341–42, 352  
 rotary tools, 344  
 Roth, Ann, 284  
 royal seal  
     Queen Uqnitum and her retinue, 64  
 Royal Tombs of Ur, 22, 26, 33–34, 55–56, 69,  
     73–78, 133  
 royal-name seals, 303  
  
 Saar, 215, 219  
     Saar settlement, 218, 220–21  
     Saar Temple, 220  
 Sabarmati river, 142  
 Sahni, D. R., 128  
 Samothrace, 338  
 Sangiorgi Collection, 359  
 Saqqara, 267, 270, 274, 280, 307  
     private tombs, 318  
     Step Pyramid, 268  
 Sardis, xxviii  
 Sargon, 22, 81, 83–84  
 Sargonic  
     Classical Sargonic period, 84  
     Early Sargonic period, 84  
     royal seal type, 88  
 Satyr/Silenus, 365  
 scanning electron microscope/microscopy (SEM),  
     175  
 scarab beetle, 102  
 scarabs, 102, 122–23, 237–38, 243, 251–53, 352  
     amuletic function, 289, 296, 303  
     apotropaic, 307  
     as seals, 289  
     decorative motifs, 306–7  
     female ownership, 254  
     funerary amulets, 299  
     funerary connotations, 290  
     funerary epithets, 255, 298–99  
     iconography, animals, 306  
     goddess Thoeris, 291  
     Hathor symbol, 291

- scarabs (cont.)  
 late Middle Kingdom, apotropaic designs, 294  
 individual ownership and use, 253  
 late Middle Kingdom, administrative function, 293  
 mayoral, 254  
 personal name and title, 239–42  
 private-name, 293, 297–98  
 royal-name, 293, 296, 298  
 seal for central administration, 289  
 sealing function, 209, 291, 293, 296  
 tomb robbery, 252
- Schmandt-Besserat, Denise, 38
- scribal kits, 278
- seal  
 administrative use, 85  
 adornment, 77, 78–79  
 as form of visual communication, 4  
 associated with female burials, 79  
 assumptions in the gendered use of, 55  
 bar, 135  
 borrowing, 105  
 cylinder, xxv–xxvii, 21, 30, 32, 36, 39, 68, 76, 81–82, 95–97, 101–5, 107, 115, 130, 136, 160, 217, 230, 233–36, 272–73, 280, 328; amulet, 268–69; area of use, 96; Egypt, 261, 264–67, 276–77, 294; geographic and temporal reach, 115–20; hieroglyphic text, 233; Iran, 26; Mesopotamia, 109; reach and limit of authority, 115; recarved, 109; recarving, 98–99, 106, 110, 114, 121; replacement by stamp seals, 123, 237  
 Egyptian hieroglyphic symbol, 231  
 Gouged Style, 27, 33  
 Jhukar type, 128, 136  
 Kassite, 119  
 later use and collecting of, 364–65  
 legal documents, 21  
 marking small-scale production, 61  
 production, 170  
 recarving. *See* recarving  
 residue of the actual trading activity, 22  
 Rhodian Hunt, 332  
 round, 136  
 Spectacle-Eye, 332  
 stamp, 15, 32, 120, 123, 133, 135, 146, 170, 188–89, 230; appearance of, 190; area of use, 96; circular, 216; Dilmun, 205; Egypt, 236, 238, 249; Minoan, 368; recarving, 99–100; rectangular, 216; royal names, 306; square, 217; steatite, 168, 175; textual elements, 5; use, 1; uses, commercial context, 21; value to historical research, 3
- seal imagery  
 administrative control, 6  
 elite status, 6, 8  
 for internal administrative use, 19
- Seal impression, definition, 259
- Seal Impression Strata (SIS), 19–20, 22, 77
- seal stone, 27, 98, 375
- sealing practices  
 Egypt, Middle Kingdom, 308–10
- Seals of Office, 273–74, 76, 286–87
- Sed festival, 264
- sedentary communities  
 relationships with nomadic groups, 59  
 sealing practices, 59
- Seistan, 131, 142
- Semenovian method, 16
- Semna Dispatches, 310
- Sened, King, 267
- Sennacherib, King, 106
- Senwosret III [Khakaure], 8, 239, 241, 247–49, 293  
 mortuary complex, 248–49, 253, 300
- serpentine, 341, 360, 388
- Sesebi, 321
- Sexagesimal S numerical system, 46, 50
- Shaft Grave period, 338
- Shagarakti-Shuriash, 106
- Shahdad, 26–30, 32
- Shahr-i Sokhta, ix, 16, 24, 26, 32, 131–32, 142  
 Phase II, 24
- Shalfak, 310
- Shamaiatum, 106
- Shamash, 88
- Sharkalisharri, 83–84, 86, 90
- Shikarpur, x
- Shortughai, 130
- Shuturul, 83
- Sibri, 129, 136
- signets, 307
- silver, 33
- Sind, 128–29, 136
- Sitopotmia, 353
- Śiva, 128, 141
- Sklavokampo, 329
- social media  
 seals as artifacts of, 10
- Society for the Promotion of Learning, 358
- Somnath, 136
- Sopata Kouse seal, 358, 360, 367
- Sopata Kouse tholos tomb, 356
- Spectacle-Eye Group, Spectacle-Eye seals, 344, 352
- Sphoungara, cemetery of, 388
- spool  
 Middle Minoan, 356
- stamps  
 institutional, 307
- Standard of Ur, 72–73, 75
- status markers, 344
- steatite, 27, 33, 146, 336, 341, 348, 360  
 carving techniques, 190–91  
 description and use, 189–90  
 moulds, 223

- scarab material, 291  
 seals, 143, 167–68, 211  
 tablets, 137
- Stein, Sir Aurel, 22
- Stone Cone Mosaic Temple, 44
- storage, 18
- storeroom, 8, 16, 65–66, 220, 300, 307, 309, 313, 322–24, 331, 345, 347
- Straits of Hormuz, 22
- strata at Ur, 18
- string-hole, 376
- Šu-Mama, 90
- Sumer, 69–78, 83, 94
- Sumeria  
   term for seal, 103
- Susa, 20, 27–28, 34, 38–39, 41–42, 49, 91, 217, 220  
   Gouged Style seals, 29  
   late Acropole levels 18–17, 41
- Susiana, 49
- Syria, 116
- tablet  
   Akkadian, 84  
   copper, 147  
   Egyptian, 284  
   faience, 137, 146  
   molded, 146–47  
   sealed inscribed, 89–90  
   steatite, 137  
   terracotta, 137  
   Uruk, 41–42  
   without text, 89
- talc-faience technological complex, 189
- Talismanic class, 388–99
- Talismanic-class stones, 387–99
- Talismanic style, 390–93
- Tar'am-Agade, 66
- Tarakai Qila, 131
- Tarkhanewala Dhera, 131
- Tell al-Rimah, 98
- Tell Banat, 62–63
- Tell Beydar, 18
- Tell Brak, 91–92, 94
- Tell Edfu, 301
- Tell el-Amarna, 102–3, 116, 243–44
- Tell el-Dab'a, 300. *See also* Avaris
- Tell Farkha, 270
- Tell Iswid, 259, 270
- Tell Jerablus Tahtani, 61–62
- Tell Leilan, 64
- Tell Mozan, 64. *See also* Urkesh  
   Area AK Royal Storerooms, 64, 66
- Tell Sabi Abyad, 59
- Tello, 90–92
- Tepe Yahya/Yahya, 22, 26, 28
- Thapar, B. K., 128
- Thebes, 108, 117–20, 245–46, 331  
   Meketra, tomb of, 290–91  
   private tombs, 318
- Thera [Santorini], 329, 338, 354
- Thing Theory, 8
- Thisbe Treasure, 359
- Thoeris, 291, 296
- tholos tomb (pl. tholoi), 4, 355
- Thutmose III, Pharaoh, 306
- Thutmose IV, Pharaoh, 317  
   mortuary complex, amphorae stamps, 317
- Tiryns, 117
- Tôd, treasure of, 103, 119
- tomb  
   Mycenae, 352  
   robbery, 303–5, 307  
   sealing of, Egypt, 317–19
- Tombos, xiii, 320
- toolkit, 41
- Tosi, Maurizio, 130, 142, 188
- trade, 61, 122, 205  
   Bronze Age Crete, 389  
   Egypt, 265  
   Egypt–Palestine, 261  
   Gulf, 219
- Tragana, 352
- Transcultural Administrative Sealing System, 189
- Trapeza Cave, 118
- “Treasury-of-Abydos,” 249
- Trigger, Bruce, 157
- Tukulti-Ninurta I, King, 106, 119
- Tupkish, King, 64
- Turkmenistan, 32, 130
- turquoise  
   source, 75
- Tutankhamen, Pharaoh, 307, 311–12, 317–19
- Two-Pair contest scene, 86, 90–92
- Ubaid period, 15  
   Late, 38  
   Terminal Ubaid, 38
- Udaipur, 172
- Udjat*-eye, 237
- Uesugi, Akinori, 130
- Ugarit, 104, 106, 108, 114
- U-j, tomb, 233, 260–61
- Uluburun, xxvii, 9, 108, 343, 349
- Umm an-Nar culture, 205
- Umm el-Qa'ab 259–62, 267, 269–70. *See also* Abydos
- Umma, 142
- unicorn, Indus, 134, 137, 140, 143, 145, 149–50, 152, 158, 173
- Uqnitum, Queen, 64
- Ur, 22, 34, 207  
   cemetery, 67  
   site of, 73  
   Standard of, 72–73, 75

- Ur (cont.)  
 traders, 23  
 Ur III period, 19, 102, 105  
 Urkesh [Tell Mozan], 64, 66  
 Uronarti, 293, 299, 309–10, 315, 319–20, 322  
 Ur-Suen, 90  
 Uruk, 24  
 Anu precinct, 39  
 commodity records, 43  
 context of administration, 52  
 Eanna precinct, 46, 48  
 Jamdet Nasr period, 60  
 Late period, 41–43  
 Limestone Temple, 46, 48  
 Middle period, 39–41  
 pre-Uruk and Early Uruk period, 37–39  
 Red Temple, 44  
 social control, 52  
 Stone Cone Mosaic Temple, 44  
 White Temple, 48
- Vadodara, 129  
 Vallianou, Despoina Chatzi, 356  
 Vapheio Cup Group, 330  
 Vari, 120  
 Vase à la Cachette, 28  
 Vats, M. S., 128  
 Viannos, 357  
 vitreous materials, 118  
 Volos Archaeological Museum, 336  
 Von Pilgrim, C. 305  
 votive, 296, 365–66
- Wadi el-Hudi, 342  
*Wah-Sut*, 232, 248, 251, 254  
 waz-tuft motif, 373  
 Wegner, Josef, 303, 318  
 Weigall, Arthur, 311  
 Weingarten, Judith, 99, 120, 327–33, 397  
 Westenholz, Aage, 90  
 Western Asia, 128, 130, 137, 140  
 Wheeler, Sir Mortimer, 128  
 Winter, Irene, 87  
 wood (ebony)  
 seal material, 265  
 Woolley, Sir Leonard, 73–74  
 workshop, 168, 171, 183–85, 191, 348, 353, 395  
 Wright, Rita, 157, 170  
 writing, 350  
 origins of, 345  
 use of seals in the absence of, 34  
 written accounting, 323–24
- Yahya, 28  
 Yakarum, King, 104, 108  
 Yale Babylonian Collection, 89  
 Yaz I culture, 136  
 Younger, John, 99, 101, 328, 330  
 Yule, Paul, 344
- Zakros, 380  
 Kato Zakros, 99  
 Zakros sealings, 342  
 Zamena, 65  
 Zettler, Richard, 88, 90  
 Zimri-Lim, 106