

**1. Doctoral dissertation**

Title: The karst system of Mount Sedom salt diapir.

Supervisor: Prof. Israel Zak

The Hebrew University of Jerusalem, Geology Department

Approved 1992

Awarded Summa cum Laude and Aharon Qatzir Prize on excellent Ph.D. in experimental sciences.

**2. Books**

1. Frumkin, A. 1984, Karst Shafts in a Mediterranean Environment (Ofra, Israel).(Hebrew): Jerusalem, The Hebrew University of Jerusalem and the Society for the Protection of Nature in Israel, Jerusalem, 141 pp.
2. Frumkin, A., 1992. The karst system of Mount Sedom. (Hebrew): Jerusalem, The Hebrew University of Jerusalem and the Society for the Protection of Nature in Israel, Jerusalem, 216 pp.

**3. Books edited**

3. Donini, G., Rossi, A., Forti, P., Buzio, A., Calandri, G. and Frumkin, A., 1985, Monte Sedom, Societa Speleologica Italiana, Milano, 135 p.
4. Rubin, R., Frumkin, A. and Felsenstein, D., 1999, Multifaces of Geography (Hebrew): Ariel v. 140-141, Jerusalem, 383 p.
5. Frumkin, A., 2006, Proceedings of the Israel Geographical Society Conference (Hebrew), Jerusalem, 116 p.
6. Frumkin, A., ed., Shroder J.F. ed. in chief, 2013, Karst Geomorphology, Volume 6, in: Treatise on Geomorphology, San Diego, Elsevier, Academic Press, 483 p.
7. Frumkin, A., ed., 2015, Atlas of the Holy Land - Judean Desert Caves. Magness, 500 pp (Hebrew, in press).

**4. Edited journal volumes**

1. Frumkin, A., (ed.), 1979, Niqrot Zurim, Journal of the Israel Cave Research Center:
2. Frumkin, A., (ed.), 1979, Niqrot Zurim, Journal of the Israel Cave Research Center v. 1, 11 p.Hebrew.
3. Frumkin, A., (ed.), 1980, Niqrot Zurim, Journal of the Israel Cave Research Center v. 2, 40 p.Hebrew.
4. Frumkin, A., (ed.), 1980, Niqrot Zurim, Journal of the Israel Cave Research Center v. 3, 36 p.Hebrew.
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7. Cohen, E., Frumkin, A., (eds.), 1982, Niqrot Zurim, Journal of the Israel Cave Research Center v. 6, 84 p.Hebrew, English abstracts.
8. Frumkin, A., Cohen, E., Eshel H., (eds.), 1983, Niqrot Zurim, Journal of the Israel Cave Research Center v. 7, 100 p.Hebrew, English abstracts

9. Frumkin, A. Eshel H., (eds.), 1983, Niqrot Zurim, Journal of the Israel Cave Research Center v. 8, , 80 p.Hebrew, English abstracts..
10. Sokal, S., Frumkin, A. (eds.), 1984, Niqrot Zurim, Journal of the Israel Cave Research Center v. 9, 128 p.Hebrew, English abstracts.
11. Frumkin, A., (ed.), 1984, Niqrot Zurim, Journal of the Israel Cave Research Center v. 10, 160 p.Hebrew, English abstracts..
12. Frumkin, A., (ed.), 1985, Niqrot Zurim, Journal of the Israel Cave Research Center v. 11-12, 143 p.Hebrew, English abstracts.
13. Frumkin, A., (ed.), 1986 Niqrot Zurim, Journal of the Israel Cave Research Center v. 13, 228 p.Hebrew, English abstracts.
14. Frumkin, A., (ed.), 1987 Niqrot Zurim, Journal of the Israel Cave Research Center v. 14, 120 p.Hebrew, English abstracts.
15. Frumkin, A. Kloner, A. (eds.), 1989 Niqrot Zurim, Journal of the Israel Cave Research Center v. 15, 190 p.Hebrew, English abstracts.

#### **4. Articles in refereed journals**

1. Forti, P., Buzio, A. and Frumkin, A., 1984, Le concrezioni de sale nelle grotte del Monte Sedom (Israele): *Rivista Mineralogica Italiana* v. 2, p. 45-48.
2. Frumkin, A., 1990, A karst cave in chalk - the longest of its kind in Israel (Hebrew): *Horizons in Geography*, v. 31, p. 203-207.
3. Frumkin, A., Magaritz, M., Carmi, I. and Zak, I., 1991, The Holocene climatic record of the salt caves of Mount Sedom, Israel: *Holocene*, v. 1, 3, p. 191-200.
4. Frumkin, A., 1993, Karst origin of the upper erosion surface in the Northern Judean Mountains, Israel: *Israel Journal of Earth Sciences*, v. 41, p. 169-176.
5. Frumkin, A., 1994, Hydrology and denudation rates of halite karst: *Journal of Hydrology*, v. 162, 1-2, p. 171-189.
6. Frumkin, A., 1994, Morphology and development of salt caves: *Journal of Caves and Karst Studies* (NSS Bull.), v. 56, p. 82-95.
7. Frumkin, A., Schwarcz, H. P. and Ford, D. C., 1994, Evidence for isotopic equilibrium in stalagmites from caves in a dry region: Jerusalem, Israel: *Israel Journal of Earth Sciences*, v. 43, 3-4, p. 221-230. 2.
8. Frumkin, A. and Ford, D. C., 1995, Rapid entrenchment of stream profiles in the salt caves of Mount Sedom, Israel: *Earth Surface Processes and Landforms*, v. 20, p. 139-152.
9. Frumkin, A., 1996, Determining the exposure age of a karst landscape: *Quaternary Research*, v. 46, p. 99-106.
10. Frumkin, A., 1996, Structure of northern Mount Sedom salt diapir (Israel) from cave evidence and surface morphology: *Israel Journal of Earth Sciences*, v. 45, p. 73-80. 7.
11. Frumkin, A., 1996, Uplift rate relative to base level of a salt diapir (Dead Sea, Israel), as indicated by cave levels, in Alsop, I., Blundell, D. and Davison, I., eds., Salt Tectonics, *Geological Society of London SP* v. 100, p. 41-47. 18.
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13. Frumkin, A., Shimron, A. E. and Miron, Y., 1998, Karst morphology across a steep climatic gradient, southern Mount Hermon, Israel: *Zeitschrift für Geomorphologie* Supplementband, v. 109, p. 23-40.
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16. Frumkin, A., Ford, D. C. and Schwarcz, H. P., 1999, Continental oxygen isotopic record of the last 170,000 years in Jerusalem: *Quaternary Research*, v. 51, 3, p. 317-327.
17. Frumkin, A., Ford, D. C. and Schwarcz, H. P., 2000, Paleoclimate and vegetation of the last glacial cycles in Jerusalem from a speleothem record: *Global Biogeochemical Cycles*, v. 14, 3, p. 863-870.
18. Frumkin, A., 2001, The Cave of the Letters sediments — Indication of an early phase of the Dead Sea depression?: *Journal of Geology*, v. 109, 1, p. 79-90.
19. Frumkin, A., Kadan, G., Enzel, Y., and Eyal, Y., 2001, Radiocarbon chronology of the Holocene Dead Sea: Attempting a regional correlation: *Radiocarbon*, v. 43, 2C, p. 1179-1190.
20. Frumkin, A. and Raz, E., 2001, Collapse and subsidence associated with salt karstification along the Dead Sea: *Carbonates and Evaporites*, v. 16, 2, p. 117-130.
21. Frumkin, A. and Elitzur, Y., 2001, The rise and fall of the Dead Sea: *Biblical Archaeology Review*, v. 27, 6, p. 42-50.
22. Frumkin, A., 2002, The hydrogeology of Israel and the problem of water supply in antiquity: *Journal of Roman Archaeology* SS, v. 46, p. 21-24 (review).
23. Frumkin, A. and Elitzur, Y., 2002, Historic Dead Sea level fluctuations calibrated with geological and archaeological evidence: *Quaternary Research*, v. 57, p. 334-342.
24. Frumkin, A., 2002, The water-supply network of Samaria-Sebaste: The Aqueducts of Israel, Amit, D., Patrich, J., Hirschfeld, Y., Eds., *Journal of Roman Archaeology* SS, v. 46, p. 267-277.
25. Frumkin, A., 2002, Mount Sedom caves: underground drainage of runoff through a salt karst system (Hebrew): *Studies in the Geography of Israel*, v. 16, p. 339-361.
26. Vaks, A., Bar-Matthews, M., Ayalon, A., Schilman, B., Gilmour, M., Hawkesworth, C. J., Frumkin, A., Kaufman, A. and Matthews, A., 2003, Paleoclimate reconstruction based on the timing of speleothem growth, oxygen and carbon isotope composition from a cave located in the rain shadow in Israel: *Quaternary Research*, v. 59, p. 182-193.
27. Elitzur, Y. and Frumkin, A., 2003, The level of the Dead Sea and the Bible: *Al Atar*, v. 12, p. 83-98 (Hebrew).
28. Frumkin, A., 2003, Maximum downcutting rate of bedrock channels in hyper-arid climates: *Horizons in Geography*, v. 57-58, p. 242-249 (Hebrew).
29. Barkai, R., Gopher, A., Lauritzen, S. E. and Frumkin, A. 2003, Uranium series dates from Qesem Cave, Israel, and the end of the Lower Palaeolithic: *Nature*, v. 423, p. 977-979.
30. Frumkin, A., Shimron, A. and Rosenbaum, J., 2003, Radiometric dating of the Siloam Tunnel, Jerusalem: *Nature*, v. 425, p. 169-171.
31. Frumkin, A. and Stein, M., 2004, The Sahara - East Mediterranean dust and climate connection revealed by strontium and uranium isotopes in a Jerusalem speleothem: *Earth and Planetary Science Letters* v. 217 p. 451-464.
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33. Frumkin, A., and Fischhendler, I., 2005, Morphometry and distribution of isolated caves as a guide for phreatic and confined paleohydrological conditions. *Geomorphology*, v. 67, p. 457-471.
34. Frumkin, A., and Gvirtzman, H., 2006, Cross-formational rising groundwater at an artesian karstic basin: the Ayalon Saline Anomaly, Israel: *Journal of Hydrology*, v. 318, 316–333.
35. Frumkin, A., and Shimron, A., 2006, Tunnel engineering in the Iron Age: geoarchaeology of the Siloam Tunnel, Jerusalem: *Journal of Archaeological Science* v. 33, 227-237.
36. Vaks, A., Bar-Matthews, M., Ayalon, A., Matthews, A., Frumkin, A., Dayan, U., Halicz, L., Almogi-Labin, A., and Schilman, B., 2006, Paleoclimate and location of the border between Mediterranean climate region and the Saharo–Arabian Desert as revealed by speleothems from the northern Negev Desert, Israel: *Earth and Planetary Science Letters*, v. 249, 384–399.
37. Porat, R., Eshel, H., Frumkin, A., 2006. Two Groups of Coins from Ein-Gedi: Israel Numismatic Journal v. 15, 79-86.
38. Lisker, S., Porat, R., Davidovich, U., Eshel, H., Lauritzen, S.E, Frumkin, A., 2007, Late Quaternary environmental and human events at En Gedi, reflected by the geology and archaeology of the Moringa Cave (Dead Sea area, Israel), *Quaternary Research*, v. 68, 203–212.
39. Vaks, A., Bar-Matthews, M., Ayalon, A., Matthews, A., Halicz, L. and Frumkin, A., 2007, Desert speleothems reveal climatic window for African exodus of early modern humans, *Geology* v. 35:9, 831-834.
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41. Karkanas, P., Shahack-Gross, R., Ayalon, A., Bar-Matthews, M., Barkai, R., Frumkin, A., Gopher, A., and Stiner, M. C., 2007, Evidence for habitual use of fire at the end of the Lower Paleolithic: Site formation processes at Qesem Cave, Israel: *Journal of Human Evolution*, 53, 197-212.
42. Porat, R., Eshel, H., Frumkin, A., 2007. Finds from the Bar-Kochba revolt from two caves at En Gedi: *Palestine Exploration Quarterly*, 139, 1, 35–53.
43. Porat, R., Eshel, H., Frumkin, A., 2007. A bronze scribe's case from En Gedi. *Israel Museum Studies in Archaeology* 6, 3-12.
44. Frumkin, A., Bar-Matthews, M., Vaks, A., 2008, Paleoenvironment of Jawa basalt plateau, Jordan, inferred from calcite speleothems from a lava tube, *Quaternary Research*, 70, 3, 358-367.
45. Fischhendler, I. and Frumkin, A., 2008. Distribution, evolution and morphology of caves in south-western Samaria, Israel. *Israel Journal of Earth Sciences*; 57: 311–322.
46. Frumkin, A., 2009, Formation and dating of a salt pillar in Mount Sedom diapir, Israel: *Geological Society of America Bulletin*.; v. 121; no. 1/2; p. 286–293.
47. Frumkin, A., Karkanas, P., Bar-Matthews, M., Barkai, R., Gopher, A., Shahack-Gross, R., and Vaks, A., 2009, Gravitational deformations and fillings of aging caves: the example of Qesem karst system, Israel: *Geomorphology*, 106, 154–164.
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52. Zissu, B., Eshel, H., Stiebel, G.D., Porat, R., Langford, B., Davidovich, U., Frumkin, A., 2009. Finds from the the Bar Kokhba period in the Teomim Cave in the western Jerusalem Hills. (Hebrew) *Qadmoniot* 42:138, 118-121.
53. Sheffer, N., Dafny, E., Gvirtzman, H., Navon, S., Frumkin, A., Morin, E., 2010. Hydrometeorological daily recharge assessment model (DREAM) for the Western Mountain Aquifer, Israel: Model application and effects of temporal patterns. *Water Resources Research* 46, W05510, 16 pp, doi:10.1029/2008WR007607w.
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55. Benami Amiel, R., Grodek, T., Frumkin, A., 2010. Characterization of the hydrogeology of the sacred Gihon Spring, Jerusalem: A deteriorating urban karst spring. *Hydrogeology Journal* 18, 1465-1479.
56. Lisker, S., Vaks, A., Bar-Matthews, M., Porat, R., and Frumkin, A. 2010. Late Pleistocene palaeoclimatic and palaeoenvironmental reconstruction of the Dead Sea area (Israel) based on speleothems and cave stromatolites. *Quaternary Science Reviews* 29, 1201–1211.
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58. Zissu, B., Eshel, H., Langford, B., and Frumkin, A., 2010. Coins from the Bar Kokhba Revolt, hidden in Mearat Ha-Teomim (Mughâret Umm et Tûeimîn), Western Jerusalem Hills. *Israel Numismatic Journal* 17, 113-147.
59. Frumkin, A., Bar-Yosef, O., and Schwarcz, H. P. 2011, Possible paleohydrologic and paleoclimatic effects on hominin migration and occupation of the Levantine Middle Paleolithic. *Journal of Human Evolution* 60:4 437-451.
60. Vaks, A., Bar-Matthews, M., Matthews, A., Ayalon, A. and Frumkin, A., 2010. Middle-Late Quaternary paleoclimate of northern Saharan-Arabian Desert: reconstruction from speleothems of Negev Desert, Israel. *Quaternary Science Reviews* 29, 1201–1211.
61. Zissu, B., Porat, R., Langford, B., and Frumkin, A., (2011), Archaeological Remains of the Bar Kokhba Revolt in the Te'omim Cave (Mûghâret Umm et Tûeimîn), Western Jerusalem Hills. *Journal of Jewish Studies* 52,2, 262-283.
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  65. Laskow, M., Gendler, M., Goldberg, I., Gvirtzman, H., and Frumkin, A. (2011). Deep confined karst detection, analysis and paleo-hydrology reconstruction at a basin-wide scale using new geophysical interpretation of borehole logs. *Journal of Hydrology* 406, p. 158–169.
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  68. Nadel, D., Shtober-Zisu, N., Frumkin, A., Yaroshevich, A., 2012. New Prehistoric Cave Sites in Lower Nahal Oren, Mt. Carmel, Israel. *Journal of the Israel Prehistoric Society* 42:75-114.
  69. Goder-Goldberger M., Cheng H., Edwards R.L., Marder O., Peleg Y., Yeshurun R., Frumkin A., 2012, Emanuel Cave: the site and its bearing on early Middle Paleolithic technological variability. *Paléorient*, v. 38.1-2, p. 203-225.
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  71. Vaks, A., Woodhead, J., Bar-Matthews, M., Ayalon, A., Cliff, R., Zilberman, T., Matthews, A., and Frumkin, A. (2013). Pliocene-Pleistocene climate of the northern margin of Saharan-Arabian Desert recorded in speleothems from the Negev Desert, Israel. *Earth and Planetary Science Letters* 368 p. 88–100.
  72. Por, F. D., Dimentman, C., Frumkin, A., Naaman, I. (2013). Animal life in the chemoautotrophic ecosystem of the hypogenic groundwater cave of Ayyalon (Israel): A summing up. *Natural Sciences* 5:4A, p. 7-13.
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##### **5. Refereed chapters in collections (English)**

1. Frumkin, A., Carmi, I., Zak, I. and Magaritz, M., 1994, Middle Holocene environmental change determined from the salt caves of Mount Sedom, Israel, in Bar-Yosef, O. and Kra, R., eds., Late Quaternary Chronology and Paleoclimates of the Eastern Mediterranean: Tucson, The University of Arizona, p. 315-322. 26.
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  12. Frumkin, A., 2004, Sedom salt karst, Israel, in Gunn, J., ed., *Encyclopedia of cave and karst science*: New York, Fitzroy Dearborn, p. 637-639.
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