

AMOS FRUMKIN

CURRICULUM VITAE

last updated 2019

1. PERSONAL DETAILS

Date of birth: February 20, 1953

Country of birth: Israel

Nationality: Israel + UK

Marital status: Married+5

Address: The Hebrew University of Jerusalem, Institute of Earth Sciences,
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2. HIGHER EDUCATION

1975-1978 Technion Technological Institute, Geodetic Engineering, Engineer,
graduated with distinction.

1980-1984 Hebrew University of Jerusalem, Faculty of Natural Sciences,
Institute of Earth Sciences, Physical geography, M.Sc.,
Supervisor: Ran Gerson. Graduated with distinction.

1989-1992 Hebrew University of Jerusalem, Institute of Earth Sciences, Geology,
Ph.D. Supervisor: Israel Zak. Awarded Summa cum Laude.

1992-1994 Post-doctoral fellowship, School of Geology and Geography, McMaster
University, Canada. Host: Derek C. Ford.

3. MAIN APPOINTMENTS

1981—Director, Israel Cave Research Center <http://www.malham.info/>

1995—Lecturer, Hebrew University of Jerusalem

2000—Senior lecturer, Hebrew University of Jerusalem

2005—Associate professor, Hebrew University of Jerusalem

2011—Professor, Hebrew University of Jerusalem

4. STUDENTS (recent years)

1999-2005 Shachak Pe'eri, PhD. co-supervisors: Zvi Ben-Avraham, Howard A.
Zebker.

2002-2007 Anton Vaks, PhD. co-supervisors: M. Bar-Matthews, A. Matthews,

2003-2007 Sorin Lisker, PhD. co-supervisor: M. Bar-Matthews,

2005-2009 Nathan Sheffer, PhD. co-supervisors: E. Morin, H. Gvirtzman.

2004-2006 Roi Porat, co-supervisor: H. Eshel,

2004-2006 Ronit Benami Amiel, co-supervisor: Tamir Grodek
 2005-2007 Omri Shafir
 2005- Israel Na'aman, co-supervisor: H. Gvirtzman
 2005-2008 Uri Davidovich, co-supervisor: Amihai Mazar
 2006-2008- Michal Laskow, co-supervisor: H. Gvirtzman
 2011-2013 Elchanan Zucker, co-supervisors: Ram Weinberger, Amotz Agnon
 2012-2014 Micka Ullman, co-supervisors: Naama Goren-Inbar, Erella Hovers
 2013-2015 Azriel Yehezkel
 2012-2016 Ayala Amir-Albak, co-supervisor: Boaz Zissu
 2013-2016 Yael Amid, co-supervisor: Miryam Bar-Matthews
 2014-2016 Jonathan Keinan, co-supervisors: Amotz Agnon, Miryam Bar-Matthews
 2014-2016 David Sarfati
 2017- Azriel Yehezkel, PhD. co-supervisor: Uzi Leibner
 2017- Yair Kadman, co-supervisor: Boaz Zissu.
 2018- Boaz Langford. co-supervisor: Anton Vaks
 2018- Micka Ullman, PhD. co-supervisor: Uri Davidovich

LIST OF PUBLICATIONS

Last updated: Aug. 2019

Amos Frumkin

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.

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 Holey Land - Judean Desert Caves. Magnes, 458 pp (Hebrew).

8. Chavez, T., Reehling, P., Johnston, C., Klimchouk, A., Frumkin, A., eds., 2016: Proceedings of deepkarst 2016: origins, resources, and management of hypogene karst. National cave and karst research institute Symposium 6 Carlsbad, NM, USA

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.
5. Frumkin, A., (ed.), 1981, Niqrot Zurim, Journal of the Israel Cave Research Center v. 4, 72 p.Hebrew.
6. Cohen, E., Frumkin, A., Paz, U., eds., 1982, Niqrot Zurim, Journal of the Israel Cave Research Center v. 5, 95 p.Hebrew.
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.

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.
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.
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.
12. Frumkin, A., 1998, Salt cave cross-sections and their paleoenvironmental implications: *Geomorphology*, v. 23, p. 183-191.
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.
14. Frumkin, A., 1999, Interaction between karst, water, and agriculture over the climatic gradient of Israel: *International Journal of Speleology*, v. 28B, 1, p. 99-110.
15. Frumkin, A., Carmi, I., Gopher, A., Ford, D.C., Schwarcz, H.P. and Tsuk, T., 1999. A Holocene millennial-scale climatic cycle from a speleothem in Nahal Qanah Cave, Israel. *The Holocene*, 9(6), pp.677-682.
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.
32. Pe'eri, S., Zebker, H. A., Ben-Avraham, Z., Frumkin, A., and Hall, J. K., 2004, Spatially-resolved uplift rate of the Mount Sedom (Dead Sea) salt diapir from InSAR observations: *Israel Journal of Earth Sciences*, v. 53, no. 2, p. 99-106.
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. Weinberger, R., Begin, Z. B., Waldmann, N., Gardosh, M., Baer, G., Frumkin, A., and Wdowinski, S., 2006, Quaternary rise of the Sedom Diapir, Dead Sea basin, in Enzel, Y., Agnon, A., and Stein, M., eds., *New frontiers in Dead Sea paleoenvironmental research*, GSA Special Paper 401: Boulder, GSA, p. 33-51.
35. 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.
36. 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.
37. 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 Sahara–Arabian Desert as revealed by speleothems from the northern Negev Desert, Israel: *Earth and Planetary Science Letters*, v. 249, 384–399.
38. Porat, R., Eshel, H., Frumkin, A., 2006. . Two Groups of Coins from the Bar Kokhba War from Ein-Gedi: *Israel Numismatic Journal* v. 15, 79-86.
39. 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.
40. 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.

41. Porat, R., Frumkin, A., Davidovich, U., Shai, I., Eshel, H., 2007, The Moringa Cave at the En-Gedi oasis, *Qadmoniot* v. 40:133, 27-31 (Hebrew).
42. 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.
43. 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.
44. Porat, R., Eshel, H., Frumkin, A., 2007. A bronze scribe's case from En Gedi. *Israel Museum Studies in Archaeology* 6, 3-12.
45. 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.
46. 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.
47. 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.
48. 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.
49. Lisker, S., Vaks, A., Bar-Matthews, M., Porat, R., Frumkin, A., 2009 [Stromatolites in caves of the Dead Sea Fault Escarpment: implications to latest Pleistocene lake levels and tectonic subsidence](#), *Quaternary Science Reviews*, 28, 1-2, 80-92.
50. Frumkin, A., 2009. [Stable isotopes of a subfossil Tamarix tree from the Dead Sea region, Israel, and their implications for the Intermediate Bronze Age environmental crisis](#). *Quaternary Research*, 71, 319–328.
51. Porat, R., Eshel, H., Frumkin, A., 2009. The 'Caves of the Spear': Refuge caves from the Bar-Kokhba revolt north of 'En-Gedi. *Israel Exploration Journal* 59,1, 21-46.
52. Frumkin, A., 2009, How Lot's wife became a pillar of salt. *Biblical Archaeology Review* 35:3, 38-64.
53. 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.
54. 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.
55. Lisker, S., Porat, R., Frumkin, A., 2010. Late Neogene rift valley fill sediments preserved in caves of the Dead Sea Fault Escarpment (Israel): palaeogeographic and morphotectonic implications. *Sedimentology* 57, 429–445.

56. 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.
57. 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.
58. Gopher, A., Ayalon, A., Bar-Matthews, M., Barkai, R., Frumkin, A., Karkanas, P. and Shahack-Gross, R. 2010. The chronology of the late Lower Paleolithic in the Levant: U-series dates of speleothems from Middle Pleistocene Qesem Cave, Israel. *Quaternary Geochronology* 5, 644-656.
59. 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.
60. 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.
61. 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.
62. 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.
63. Frumkin, A., Ezersky, M., Al-Zoubi, A., Abueladas, A.-R. (2011). The Dead Sea sinkhole hazard: Geophysical assessment of salt dissolution and collapse. *Geomorphology* 134, 102–117.
64. Sheffer, N., Cohen, M., Morin, E., Grodek, T., Gimburg, A., Magal, E., Gvirtzman, H., Nied, M., Isele, D., Frumkin, A., (2011). Integrated Cave Drip Monitoring for Epikarst Recharge Estimation in a Dry Mediterranean Area, Sif Cave, Israel. *Hydrological Processes* 25, 2837-2845.
65. Marder, O., Yeshurun, R., Lupu, R., Bar-Oz, G., Belmaker, M., Porat, N., Ron, H., and Frumkin, A. (2011). Mammal remains at Rantis Cave, Israel, and middle-late Pleistocene human subsistence and ecology in the Southern Levant. *Journal of Quaternary Science* 26(8) p. 769–780.
66. 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.
67. Weinstein-Evron, M., Tsatskin, A., Weiner, S., Shahack-Gross, R., Frumkin, A., Yeshurun, R., Zaidner, Y., 2012. A Window into Early Middle Paleolithic Human Occupational Layers: Misliya Cave, Mount Carmel, Israel. *PaleoAnthropology* 2012:202–228. doi:10.4207/PA.2012.ART75
68. Shimron A. E. and Frumkin, A., (2011). The Why, How, and When of the Siloam Tunnel Reevaluated: A Reply. *BASOR* 364, p. 53-60.
69. 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.

70. 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.
71. Ayalon, A., Bar-Matthews, M., Frumkin, A., Matthews, A. (2013). Last glacial warm events on Mount Hermon; the southern extension of the Alpine karst range of the east Mediterranean. *Quaternary Science Reviews* 59 p. 43-56
72. 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.
73. 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.
74. Ezersky, M., Frumkin A., (2013). [Fault — Dissolution front relations and the Dead Sea sinkhole problem](#), *Geomorphology* 201, 35–44.
75. Frumkin, A., Bar-Matthews, M., Davidovich, U., Langford B., Porat R., Ullman M., Zissu, B., (2014). In-situ dating of ancient quarries and the source of flowstone ('calcite-alabaster') artifacts in the southern Levant. *Journal of Archaeological Science* 41, 749-758.
76. Marder, O., Alex, B., Ayalon, A., Bar-Matthews, Bar-Oz, G., Bar-Yosef Mayer, D., Berna, F., Boaretto, E., Caracuta, V., Frumkin, A., Goder-Goldberger, M., Hershkovitz, I., Latimer, B., Ron Lavi, Matthews, A., Weiner, S., Weiss, U., Yas'ur, G., Yeshurun, R., Barzilai, O., 2013. The Upper Palaeolithic of Manot Cave, Western Galilee, Israel: the 2011–12 excavations. *Antiquity* 087:337.
77. Zaidner, Y., Frumkin, A., Porat, N., Tsatskin, A., Yeshurun, R., Weissbrod, L., 2014. A series of Mousterian occupations in a new type of site: The Neshar Ramla karst depression, Israel. *Journal of Human Evolution* 66, 1-17.
78. [Matmon, A.](#), [Fink, D.](#), [Davis, M.](#), [Niedermann, S.](#), [Rood, D.](#), [Frumkin, A.](#), 2014. Unraveling rift margin evolution and escarpment development ages along the Dead Sea fault using cosmogenic burial ages. *Quaternary Research* 82, 281-295.
79. Shvitiel, Y., Frumkin, A., 2014. The use of caves as security measures in the Early Roman Period in the Galilee: Cliff Settlements and Shelter Caves. *Caderno de Geografia*, 24, 41:77-85.
80. Zissu, B., Langford, B., Raviv, D., Davidovich, U., Porat, R., Frumkin, A., 2014. Coins from the Elqana Cave in Western Samaria. *The Israel Numismatic Journal* 18, 146-154.
81. Frumkin, A. Zaidner, Y., Na'aman, I., Tsatskin, A., Porat, N., Vulfson, L., 2015. Sagging and collapse sinkholes over hypogenic hydrothermal karst in a carbonate terrain. *Geomorphology* 229, 45-57. DOI: 10.1016/j.geomorph.2014.08.001
82. Shtober-Zisu, N., Amasha, H., Frumkin, A. 2015. Inland notches: Implications for subaerial formation of karstic landforms—an example from the carbonate slopes of Mt. Carmel, Israel. *Geomorphology* 229, 85-99 DOI: 10.1016/j.geomorph.2014.09.004.
83. Hershkovitz, I., Marder, O., Ayalon, A., Bar-Matthews, M., Yasur, G., Boaretto, E., Caracuta, V., Alex, B., Frumkin, A., Goder-Goldberger, M., Gunz, P., Holloway, R.L., Latimer, B., Lavi, R., Matthews, A., Slon, V., Bar-Yosef

- Mayer, D., Berna, F., Bar-Oz, G., Yeshurun, R., May, H., Hans, M.G., Weber, G.W., Barzilai, O., 2015, Levantine cranium from Manot Cave (Israel) foreshadows the first European modern humans. *Nature*, 520:216-219. doi:10.1038/nature14134.
84. Marder, O. Ashkenazy, H. Frumkin, A. Grosman, L. Langford, B. Sharon, G. Ullman, M. Yeshurun, R. Peleg, Y. 2015. El-Hamam Cave: A New Natufian Site in the Samaria Hills. *Journal of the Israel Prehistoric Society* 45, 131 -142
 85. Yahalom-Mack N., Langgut D., Dvir O., Tirosh O., Eliyahu-Behar A., Erel Y., Langford B., Frumkin A., Ullman M., Davidovich U. The earliest lead object in the Levant. 2015. *PloS one*, 10(12), DOI:10.1371/journal.pone.0142948.
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