

Personal details

Phone no.: Work: 02-6586703.

Fax: 02-5662581

Email address: arimatmon@mail.huji.ac.il

Higher education

July 1990, Institute of Earth Sciences, Hebrew University, Jerusalem. Geology and Chemistry. B.Sc.

May 1995, Institute of Earth Sciences, Hebrew University, Jerusalem. “*Solubility of minerals in water at high temperatures and pressures. An experimental study using a Diamond Anvil Cell*”. M.Sc. Supervisor: Prof. Oded Navon.

December 2001, Institute of Earth Sciences, Hebrew University, Jerusalem. “*Landscape analysis as a key to the understanding of the tectonic evolution of the Galilee, northern Israel, during the last 4 Million years*”. Ph.D. Supervisors: Prof. Enzel, Y., Dr. Zilberman E., and Prof. Garfunkel, Z.

2000-2002, Department of Geology, University of Vermont. *Erosional processes in various landscapes*. Post-doctoral. Host: Prof. Paul Bierman.

2002-2005, United States Geological Survey. *Slip rates along major strike slip faults*. Post-doctoral Mendenhall fellowship. Hosts: Prof. Wayne Thatcher and Dr. David Schwartz.

Appointments at the Hebrew University:

Date: July, 2011, Rank: Assistant Professor, Faculty and school: Natural Sciences, Institute of Earth Sciences, Field: Geomorphology.

Date: July, 2005, Rank: Senior Lecturer, Faculty and school: Natural Sciences, Institute of Earth Sciences, Field: Geomorphology.

List of Publications

1. Chapters in collections:

1. **Matmon, A^{PI}**, Zilberman, E^C., and Enzel, Y^C., Landscape and tectonic development in the Beit-Hakerem area, 2000, p. 23-54, **The Israel Geological Society Annual Meeting, Ma'alot. Professional geologic field guide**, (in Hebrew).
2. Davis, M^S., Enzel, Y^{PI}., **Matmon, A^{PI}**, Zilberman, E^{PI}., Morphologic processes at the intersection between drainage systems, tectonics, and retreating shorelines –

- the lower Zin Valley, 2007, p. 21-35, **The Israel Geological Society Annual Meeting, Neve Zohar. Professional geologic field guide**, (in Hebrew).
3. **Matmon, A^{PI}.**, Katz, O^{PI}., Siman-Tov, S^S., Agnon, A^C., and Shaar R^C., Geomorphology and tectonics along the Zurim escarpment, 2008, p. 104-138, **The Israel Geological Society Annual Meeting, Nazareth. Professional geologic field guide**.
 4. The Dead Sea Rift as a natural laboratory for earthquake behavior: prehistorical, historical, and recent seismicity. **International Workshop and Field Trip. 16th - 23rd February 2009.** Landscape development in an hyper arid sandstone environment along the margins of the Dead Sea fault: implications from dated rock falls, p. 178 – 191.
 5. The Dead Sea Rift as a natural laboratory for earthquake behavior: prehistorical, historical, and recent seismicity. **International Workshop and Field Trip. 16th - 23rd February 2009.** Reconstructing active rift margin tectonics using cosmogenic exposure age dating of desert pavements: Quaternary subsidence along the western margin of the Dead Sea Rift, p. 192 – 205.
 6. Co-Organizer and field trip leader – GLOCOPH Israel. **International workshop on paleohydrology.** 25th October to 3rd November, 2009. The evolution of Makhtesh Hazera and its drainage system since the middle Pliocene, p. 187 – 190.
 7. Guralnik, B^S., **Matmon, A^{PI}.**, Avni, Y.,^{PI}., Zilberman, E.^{PI}., and Ginat, H.^C., Quaternary tectonics and drainage evolution in the southern Negev, 2011, p. II-XXVI, **The Israel Geological Society Annual Meeting, Mitzpe Ramon. Professional geologic field guide**.
 8. **Matmon, A^{PI}.**, and Zilberman, E.^{PI}., (in press), Landscape evolution along the Dead Sea fault and its margins.. In: **The Quaternary of the Levant**, eds.: Enzel, Y., and Bar-Yosef, O. (#55). Invited review paper
 9. **Matmon, A^{PI}.**, (in press), Cosmogenic isotope based erosion rates along the western margin of the Dead Sea fault.. In: **The Quaternary of the Levant**, eds.: Enzel, Y., and Bar-Yosef, O. (#57). Invited review paper
 10. Rinat, Y^S., Gelman, Y^S., **Matmon, A^{PI}.**, Mushkin, A^{PI}., Landscape evolution and tectonics along the margin of the Arava Valley since the mid-Pleistocene, 2016, p. 1e-35e, **The Israel Geological Society Annual Meeting, Eilat, Professional geologic field guide**.

2. Peer-reviewed papers

1. **Matmon, A.**, Enzel, Y., Zilberman, E., and Heimann, A. 1999. Late Pliocene to Pleistocene Reversal of Drainage Systems in Northern Israel: Tectonic Implications, Geomorphology, v. 28, p. 43-59.
2. **Matmon, A.**, and Ron, H., 1999. Dike-resembling features on the Yir'on Plateau, northern Israel, Israel Journal of Earth Sciences, v. 48, No. 2, p. 91-99.
3. Hurwitz, S., **Matmon, A.**, Ron, H., and Heimann, A., 1999, Deformation along the margins of the Dead Sea Transform: The Yehudiyya Block, Golan Heights, Israel Journal of Earth Sciences, v. 48, No. 3-4, p. 257-264.

4. **Matmon, A.**, Zilberman, E., Enzel, Y., 2000, Determination of escarpment age using morphologic analysis: An example from the Galilee, northern Israel, Geological Society of America Bulletin, v. 112, no. 12, p. 1864-1876.
5. **Matmon, A.**, E. Zilberman, and, Y. Enzel, 2000, The Development of the Bet-Ha'Emeq Structure and the Tectonic Activity of Normal Faults in the Galilee, Israel Journal of Earth Sciences, v. 49, p. 143-158.
6. Gran, S. E. , **Matmon, A.**, Bierman, P.R., Rizzo, D., Enzel, Y., and Caffee, M. 2001, Determination of displacement history from a limestone normal fault scarp using cosmogenic ³⁶Cl, northern Israel, Journal of Geophysical Research, v. 106, No. B3, p. 4247- 4264.
7. **Matmon, A.**, Bierman, P., and Enzel Y., 2002, Pattern and tempo of great escarpment erosion, Geology, v. 30, no. 12, p. 1135-1138.
8. **Matmon, A.**, Bierman, P., Larsen, J., Southworth, S., Pavich, M., and Caffee, M., 2003, Temporally and Spatially uniform rates of erosion in the southern Appalachian Mountains, Geology, v. 31, no. 2, p. 155-158.
9. **Matmon, A.**, Bierman, P., Larsen, J., Southworth, S., Pavich, M., and Caffee, M., 2003, Erosion of an ancient mountain range, the Great smoky mountains, North Carolina and Tennessee, American Journal of Science, v. 303, p. 817-855.
10. **Matmon, A.**, Crouvi, O., Enzel, Y., Bierman, P., Larsen, J., Porat, N., Amit, R. , and Caffee, M. , 2003, Complex exposure histories of chert clasts in the late Pleistocene shorelines of Lake Lisan, southern Israel, Earth Surfaces Processes and Landforms, v. 28, p. 493-506.
11. **Matmon, A.**, Wdowinski, S., and Hall, J., 2003, Morphological and structural relations in the Galilee extensional domain, northern Israel, Tectonophysics, v. 371, p. 223-241.
12. **Matmon, A.**, Schwartz, D., Finkel, R., Clemmens, S., Hanks, T., 2005, Dating offset fans along the Mojave section of the San Andreas Fault using cosmogenic ²⁶Al and ¹⁰Be, Geological Society of America Bulletin, v. 117, p. 795-807.
13. **Matmon, A.**, Shaked, Y., Porat, N., Enzel, Y., Finkel R., Lifton, N., Boaretto, E., and Agnon, A., 2005, Landscape development in an hyper arid sandstone environment along the margins of the Dead Sea fault: implications from dated rock falls, Earth and Planetary Science Letters, v. 240, p. 803-817.
14. **Matmon, A.**, Nichols, K.K., and Finkel, R., 2006, Isotopic insights into smoothing of abandoned fan surfaces, southern California, Quaternary Research, v. 66, p. 109-118.
15. **Matmon, A.**, Schwartz, D. P., Haeussler, P. J., Finkel, R., Lienkaemper, J. J., Stenner, H. D., Dawson, T.E., 2006, Denali fault slip rates and Holocene-late Pleistocene kinematics of Central Alaska, Geology, v. 34, p. 645-648.
16. Haviv, I., Enzel, Y., Whipple, K. X., Zilberman, E., Stone, J., **Matmon, A.**, and Fifield, L. K. 2006, Amplified erosion above waterfalls and oversteepened bedrock Reaches, Journal of Geophysical Research, v. 111, F04004.
17. Ben Moshe, L., Haviv, I., Enzel, Y., Zilberman, E., and **Matmon, A.**, 2008, Incision of alluvial channels in response to a continuous base level fall: Field characterization, modeling, and validation along the Dead Sea, Geomorphology, v. 93, no. 3-4, p. 524-536.
18. Chazan, M., Ron, H., **Matmon, A.**, Porat, N., Goldberg, P., Yates, R., Avery, M.,

- Sumner, A., and Kolska Horwitz, L., 2008, Radiometric dating of the Earlier Stone Age sequence in Excavation I at Wonderwerk Cave, South Africa: preliminary results, Journal of Human Evolution, v. 55, p. 1-11.
19. **Matmon, A.**, Simhai, O., Amit, R., Haviv, I, Porat, N., McDonald, E., Benedetti L., and Finkel, R., 2009, Where erosion ceases: desert pavement coated surfaces in extreme deserts present the longest-lived landforms on Earth, Geological Society of America Bulletin, v. 121, no. 5/6, p. 688-697.
 20. Placzek, C., Betancourt, J.A., Quade, J., Patchett, P.J., Latorre, C., Rech, J., Holmgren, C., English, N.B., **Matmon, A.**, 2009, Climate in the dry, central Andes over geologic, millennial, and interannual timescales. Annals of the Missouri Botanical Garden. v. 96, no. 3, p. 386 – 397.
 21. Davis, M., **Matmon, A.**, Zilberman, E., Porat, N., Gluck, D., and Enzel, Y., 2009, Bathymetry of Lake Lisan controls late Pleistocene and Holocene stream incision in response to base level fall, Geomorphology. v. 106, p. 352-362.
 22. Ruther, H., Chazan, M., Schroeder, R., Neeser, R, Held, C., Walker, S.J., **Matmon, A.**, Kolska Horwitz, L., 2009, Laser scanning for conservation and research of African cultural heritage sites: the case study of Wonderwerk Cave, South Africa, Journal of Archaeological Science, v. 36, p. 1847–1856.
 23. **Matmon, A.**, Dody, A., and Finkel, R., 2009, 300 ky history of sand erosion in the Yamin Plain, Negev Desert, Israel. Israel Journal of Earth Sciences. v. 58, p. 29-39.
 24. Jungers, M., Bierman, P., **Matmon, A.**, Nichols, K., Larsen, J., and Finkel, R., 2009, Tracing Hillslope Sediment Production and Transport with in situ and meteoric ¹⁰Be, Journal of Geophysical Research. v. 114, F04020, doi: 10.1029/2008JF001086.
 25. Guralnik, B., **Matmon, A.**, Avni, Y., and Fink, D., 2010, ¹⁰Be exposure ages of ancient desert pavements reveal Quaternary evolution of the Dead Sea drainage basin and rift margin tilting, Earth and Planetary Science Letters, v. 290, no. 1, p. 132 -141.
 26. **Matmon, A.**, Katz, O., Shaar, R, Ron, H., Porat, N., and Agnon, A., 2010, Timing of relay ramp growth and normal fault linkage, Upper Galilee, Northern Israel, Tectonics, v. 29, TC2016, doi:10.1029/2009TC002510.
 27. **Matmon, A.**, Briner, J.P., Carver, G., Bierman, P., and Finkel, R., 2010, Moraine chronosequence of the Donnelly Dome region, Alaska: Implications for late Pleistocene glacial history of interior Alaska, Quaternary Research, v. 74, p. 63-72.
 28. Placzek, C., **Matmon, A.**, Granger, D.E., Quade, J., Niedermann, S., 2010, Active landscape evolution in the hyperarid Atacama measured by multiple terrestrial cosmogenic nuclides, Earth and Planetary Science Letters, v. 295, p. 12-20.
 29. Haviv, I., Enzel, Y., Whipple, K. X., Zilberman, E., **Matmon, A.**, Stone, J., and Fifield, K. L., 2010, Evolution of vertical knickpoints (waterfalls) with resistant caprock: insights from numerical modeling, Journal of Geophysical Research. v. 115, n. 3, F03028, doi:10.1029/2008JF001187.
 30. Guralnik, B., **Matmon, A.**, Avni, Y., Porat, N., and Fink, D., 2011, Constraining the evolution of river terraces with integrated OSL and cosmogenic nuclide data, Quaternary Geochronology, v. 6, p. 22-32.

31. Amit, R., Enzel, Y., Crouvi, O., Shimhai, O., **Matmon, A.**, Porat, N., McDonald, E., Gillespie, A., 2011, The role of the Nile in initiating a massive dust influx to the Negev late in the middle Pleistocene, Geological Society of America Bulletin. v 123, n 5, p 873-889.
32. Amit, R., Simhai, O., Ayalon, A., Enzel, Y., **Matmon, A.**, Crouvi, O., Porat, N., and McDonald, E., 2011, Transition from arid to hyperarid environment in the southern Levant deserts as recorded by early Pleistocene cummulic aridisols, Quaternary Science Reviews. v 30, n 3-4, p 312-323.
33. Boroda, R., Amit, R., **Matmon, A.**, ASTER Team, Finkel, R., Porat, N., Enzel, Y., and Eyal, Y., 2011, Quaternary-scale evolution of sequences of talus flatirons in the extremely arid Negev, Geomorphology, v 127, n 1-2, p 41-52.
34. Davis, M., **Matmon, A.**, Ron, H., Fink, D., Niedermann, S., 2011, Dating Pliocene lacustrine sediments in the central Jordan Valley, Israel – Implications for cosmogenic burial dating, Earth and Planetary Science Letters, v. 305, p. 317-327.
35. Fruchter, N., **Matmon, A.**, Avni, Y., and Fink, D., 2011, Sediment source and mixing and the cycle of sediment transport: an example from NE Negev Desert, Israel, Geomorphology, v. 134, p. 363-377.
36. **Matmon, A.**, Ron, H., Chazan, M., Porat, N., and Horwitz, L., 2012, Reconstructing the history of sediment deposition in caves: A case study from Wonderwerk Cave, South Africa, Geological Society of America Bulletin, v. 124, no. 3-4, p. 611-625.
37. **Matmon, A.**, Stock, G.M., Granger, D.E., and Howard, K.A., 2012, Dating of Pliocene Colorado River sediments: Implications for cosmogenic burial dating and the evolution of the lower Colorado River, Geological Society of America Bulletin, v. 124, no. 3-4, p. 626-640.
38. Chazan, M., Avery, D. Margaret, Bamford, M.K., Berna, F., Brink, J. Fernandez-Jalvo, Y., Goldberg, P., Holt, S., **Matmon, A.**, Porat, N., Ron, H., Rossouw, L., Scott, L., Horwitz Kolska, L., 2012, The Oldowan horizon in Wonderwerk Cave (South Africa): Archaeological, geological, paleontological and paleoclimatic evidence, Journal of Human Evolution, v. 63, n. 6, p. 859-866.
39. Quade, J., Reiners, P., Placzek, C.J., **Matmon, A.**, Pepper, M., Ojha, L., and Murray, K., 2012, Seismicity and the strange rubbing boulders of the Atacama Desert, northern Chile, Geology, v. 40, p. 851-854.
40. Davis, M., **Matmon, A.**, Rood, D.H., Avnaim-Katav, S., 2012, Constant cosmogenic nuclide concentrations in sand supplied from the Nile River over the past 2.5 m.y., Geology, v 40, n 4, p 359-362.
41. Avnaim-Katav, S., Almogi-Labin, A., Sandler, A., Sivan, D., Porat, N., **Matmon, A.**, 2012, The chronostratigraphy of a quaternary sequence at the distal part of the Nile littoral cell, Haifa Bay, Israel. Journal of Quaternary Science, v. 27, n. 7, p. 675-686.
42. Boroda, R., **Matmon, A.**, Amit, R., Haviv, I., Porat, N., ASTER Team, Rood, D., Eyal, Y., and Enzel, Y., 2013, Long-term talus flatirons formation in the hyperarid northeastern Negev, Quaternary Research, v 79, n 2, p 256-267.
43. Ryb, U., **Matmon, A.**, Porat, N., and Katz, O., 2013, From mass-wasting to slope stabilization - putting constraints on a tectonically induced transition in slope erosion mode: A case study in the Judea Hills, Israel, Earth Surface Processes and Landforms, v 38, n 6, p 551-560.

44. **Matmon, A.**, Mushkin, A., Enzel, Y., Grodek, T., ASTER Team, 2013, Erosion of a granite inselberg, Gross Spitzkoppe, Namib Desert, Geomorphology, doi: 10.1016/j.geomorph.2013.06.005.
45. Davis M., **Matmon A.**, Placzek C.J., McIntosh, W., Rood D.H., Quade, J., 2014, Cosmogenic nuclides in buried sediments from the hyperarid Atacama Desert, Chile, Quaternary Geochronology.
46. Rinat, Y., **Matmon, A.**, ASTER Team, Porat, N., E. Morin, Finkel, R.C., 2014, Holocene rockfalls in the southern Negev Desert, Israel and their relation to Dead Sea fault earthquakes, Quaternary Research. v. 81, p. 260-273.
47. Ryb, U., **Matmon, A.**, Erel, Y., Haviv, I., Katz, A., Starinsky, A., Angert, A. and ASTER Team, 2014, Controls on denudation rates in tectonically stable Mediterranean carbonate terrain, Geological Society of America Bulletin. doi: 10.1130/B30886.1.
48. Boroda, R., **Matmon, A.**, Amit, R., Haviv, I., ASTER Team, Eyal, Y., and Enzel, Y., 2014, Evolution and degradation of flat-top mesas in the hyper-arid Negev, Israel revealed from cosmogenic nuclides, Earth Surface processes and Landforms. DOI: 10.1002/esp.3551.
49. **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. v. 82, no. 1, p. 281-295.
50. Placzek, C., Granger, D.E., **Matmon, A.**, Quade, J., and Ryb, U., 2014, Geomorphic process rates in the central Atacama Desert, Chile: insights from cosmogenic nuclides and implications for the onset of hyperaridity, American Journal of Science. v. 314, p. 1462-1512..
51. Ryb U., **Matmon A.**, Erel Y., Haviv I., Benedetti L., and Hidy J.A., 2014, Styles and rates of long-term denudation in carbonate terrains under a Mediterranean to hyper-arid climatic gradient. Earth and Planetary Science Letters. v. 406, p. 142-152.
52. **Matmon, A.**, Quade, J., Placzek, C., Fink, D., ASTER Team, Copeland, A., and Neilson, J.W., 2015, Seismic origin of the Atacama Desert boulder fields. Geomorphology. v. 231, p. 28-39.
53. Ryb U., **Matmon A.**, and Haviv I. 2015, Exhumation and uplift coupled with precipitation along the western Dead-Sea Rift margin. Geology, v. 43; no. 6; p. 483–486.
54. **Matmon, A.**, Hidy, A.J., Vainer, S., Crouvi, O., Fink, D., Erel, Y., ASTER Team, Horwitz, L.K., Chazan, M. 2015, New chronology for the southern Kalahari Group sediments: implications for sediment cycle dynamics and early hominin occupation. Quaternary Research, v. 84 p. 118-132. <http://dx.doi.org/10.1016/j.yqres.2015.04.009>.
55. **Matmon, A.**, and Zilberman, E., (invited review paper; in press), Landscape evolution along the Dead Sea fault and its margins. Invited review paper. In: **The Quaternary of the Levant**, eds.: Enzel, Y., and Bar-Yosef, O.
56. **Matmon, A.**, (invited review paper; in press), Cosmogenic isotope based erosion rates along the western margin of the Dead Sea fault. Invited review paper. In: **The Quaternary of the Levant**, eds.: Enzel, Y., and Bar-Yosef, O.

57. Faershtein, G., Porat, N., Avni, Y., and **Matmon, A.** 2016, Aggradation-incision transition in arid environments at the end of the Pleistocene: an example from the Negev Highlands, southern Israel. Geomorphology, v. 253, p. 289-304.
58. **Matmon, A.**, Elfassi, S., Hidy, A., Geller, Y., Porat, N., ASTER Team, 2016. Controls on aggradation and incision in the NE Negev, Israel, since the middle Pleistocene. Geomorphology, v. 261, p. 132-146

3. Participation in scientific conferences

- Matmon, A.**, and Navon, O., 1996, Solubility experiments in a Diamond Anvil Cell: NaCl-H₂O to 2Gpa and 300°C. The Israel Geological Society Annual meeting, Eilat, Abstract Book, p. 69. Poster.
- Matmon, A.**, 1997, Plio-Pleistocene drainage systems in the Beit-Hakerem Valley, northern Israel, International symposium on recent development on active fault studies, Istanbul, Turkey, Abstracts. Lecture.
- Matmon, A.**, 1997, Plio-Pleistocene drainage systems in the Beit-Hakerem Valley, The Israel Geological Society Annual meeting, Kfar-Giladi, Abstract Book, p. 75. Poster.
- Matmon, A.**, and Ron, H., 1997, Dike resembling structures in the Yeron Plateau, The Israel Geological Society Annual meeting, Kfar-Giladi, Abstract Book, p. 76. Poster.
- Matmon, A.**, and Enzel, Y., and Zilberman, E., 1998, Morphological analyses for determining the temporal framework for the escarpment-forming normal faults in the Galilee, northern Israel, The Israel Geological Society Annual Meeting, Mitzpe-Ramon, Abstract Book, p. 67. Poster.
- Matmon, A.**, Enzel, Y., and Zilberman, E., 1998, Morphometric analyses for determining the age of escarpments: an example from the Galilee, northern Israel, GSA Annual Meeting, Toronto, Abstracts with Programs, vol. 30, no. 7, p. 142. Poster.
- Matmon, A.**, Bierman, P., Caffee, M., and Enzel, Y., 1999, How fast do rift escarpments retreat?, GSA Annual Meeting, Denver, Abstracts with Programs, vol. 31, no. 7, p. A-445. Poster.
- Matmon, A.**, Zilberman, E., and Enzel, Y., 1999, A method for determining the age of escarpment using morphological analysis: an example from the Galilee, northern Israel. The A. Schick Fluvial Geomorphology Conference (ed: Hassan M. A.). Jerusalem, Abstract Book, p. 41. Poster.
- Bierman, P.R., Caffee, M., and **Matmon, A.**, 1999, Rates of rock surface erosion and sediment production across the hyper-arid Namib Desert and the Great Namibian Escarpment, Southern Africa. GSA Annual Meeting, Denver, Abstracts with Programs, vol. 31, no. 7, p. A-297. Lecture.
- Gran, S.E., **Matmon, A.**, Bierman, P.R., Enzel, M., and Caffee, M., 1999, Evidence for rapid Holocene displacement on the Nahef East Fault, northern Israel: A cosmogenic ³⁶Cl approach. GSA Annual Meeting, Denver, Abstracts with Programs, vol. 31, no. 7, p. A-301. Lecture.
- Gran, S.E., **Matmon, A.**, Bierman, P.R., and Caffee, M., 1999, Calculating fault displacement rates, in-situ cosmogenic ³⁶Cl concentration of a limestone normal fault scarp, northern Israel. International conference on drainage basin dynamics and morphology (ed: Hassan M. A.). Jerusalem, Abstract Book, p. 21. Lecture.

- Matmon, A.**, 2000, The Lower Galilee – A continental rift?, The Israel Geological Society Annual Meeting, Ma'alot, Abstract Book, p. 87. Invited Lecture.
- Matmon, A.**, Bierman, P. R., Southworth, S., Pavich, M., Caffee, M., 2001, Temporally and spatially uniform rates of erosion in the Great Smoky Mountains, Tennessee and North Carolina, GSA Annual Meeting, Boston, Abstracts with Programs, v. 33, no. 6, p. 315. Poster.
- Matmon, A.**, Bierman, P. R., Southworth, S., Pavich, M., Caffee, M., Finkel, R., 2001, Rates of erosion determined from ^{10}Be analysis of sediments, Great Smoky Mountains, Tennessee and North Carolina, AGU Fall Meeting, San-Francisco, Abstracts with Programs, v. 82, no. 47, p. 455. Poster.
- Southworth, S., Schultz, A.P., Naeser, C.W., Naeser, N.D., Chirico, P., **Matmon, A.**, Bierman, P.R., and Pavich, M., 2001, Using geology to understand flora, fauna, and the evolution of the Great Smoky Mountain region. In: U. S. Geological Survey Appalachian regional integrated science workshop proceedings. Open-File Report - U. S. Geological Survey. Pages 53-54. 2001. Lecture.
- Haviv, I., Enzel, Y., Ziberman, E., Whipple, K.X., and **Matmon A.**, 2002, Knick point development in bedrock channels of the Dead Sea basin, The Israel Geological Society Annual meeting, Ma'agan, Abstract Book, p. 51. Lecture.
- Bierman PR, Nichols KK, Clapp EM, **Matmon A**, Caffee, M, Finkel R, 2002, Tracking landscape-scale sediment generation and transport using in situ produced ^{10}Be and ^{26}Al , Geochemica et Cosmochemica Acta, 66 (15A): A77-A77 Suppl. 1. Lecture.
- Matmon, A.**, Crouvi, O., Enzel, Y., Bierman, P., Larsen, j., Porat, N., Amit, R., Caffee, M., 2003, Cosmogenic and OSL dating of the late Pleistocene shorelines of Lake Lisan, southern Israel: two different histories. International Quaternary Association, Reno, abstract book, p. 288. Poster.
- Matmon, A.**, Schwartz, D., Hanks, T., Finkel, T., Clemmens, S., Mushkin, A., 2003, Cosmogenic ^{10}Be and ^{26}Al analysis in boulders on displaced alluvial fans: implications for long-term slip rates along the Mojave section, San Andreas Fault. GSA Annual Meeting, Seattle, Abstracts with Programs, v. 35, no. 6, p. 580. Poster.
- Haviv I., Enzel Y., Zilberman E., Whipple K., Stone J., **Matmon A.**, Fifield L. K., 2003, Knickpoint retreat and drawdown reach evolution along the arid escarpments of the Dead Sea basin, GSA Annual Meeting, Seattle, Abstracts with Programs, v. 35, no. 6, p. 333. Poster.
- Matmon, A.**, Schwartz, D., Hanks, T., Finkel, T., Clemmens, S., Mushkin, A., 2003, Constant Long-Term Slip Rates Along the Mojave Section, San Andreas Fault Determined From Cosmogenic ^{10}Be and ^{26}Al analysis in boulders on displaced alluvial fans, AGU Fall Meeting, San-Francisco, Abstracts with Programs, v. 84, no. 46, p. F1372. Poster.
- Matmon A.**, David P. Schwartz, James J. Lienkamper, Heidi D. Stenner, Peter Haeussler, Timothy Dawson, Lauren A. Staff, Robert Finkel, 2004, Determining Holocene and late Pleistocene slip rates along the Denali Fault using cosmogenic ^{10}Be analysis of boulders on displaced moraines, GSA Annual Meeting, Denver, Abstracts with Programs, Vol. 36, No. 5, p. 137. Poster.
- Howard, K.A., Lundstrom, S.C., and **Matmon, A.**, 2004, Ancestral Colorado River potholes high above Hoover Dam. GSA annual meeting. Denver, Abstracts with Programs. Vol. 36; 5, Pages 515. Poster.

- Matmon, A.**, Bierman, P. R., Larsen, J., Southworth, S., Pavich, M., Finkel, R., and Caffee, M., 2005, Grain size dependency of ¹⁰Be concentrations in alluvial sediments in the Great Smoky Mountains, Goldschmidt Conference, Moscow, ID, Geochemica et Cosmochemica Acta, 69, A160. Invited Lecture.
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