

# Shmuel Marco

## List of Publications by Year in descending order

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109  
papers

3,833  
citations

136740

32  
h-index

143772

57  
g-index

112  
all docs

112  
docs citations

112  
times ranked

2237  
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-term earthquake clustering: A 50,000-year paleoseismic record in the Dead Sea Graben. <i>Journal of Geophysical Research</i> , 1996, 101, 6179-6191.	3.3	329
2	High-resolution geological record of historic earthquakes in the Dead Sea basin. <i>Journal of Geophysical Research</i> , 2001, 106, 2221-2234.	3.3	162
3	Prehistoric earthquake deformations near Masada, Dead Sea graben. <i>Geology</i> , 1995, 23, 695.	2.0	157
4	Soft-sediment deformation within seismogenic slumps of the Dead Sea Basin. <i>Journal of Structural Geology</i> , 2011, 33, 433-457.	1.0	154
5	Crusader castle torn apart by earthquake at dawn, 20 May 1202. <i>Geology</i> , 1998, 26, 303.	2.0	130
6	The late Quaternary limnological history of Lake Kinneret (Sea of Galilee), Israel. <i>Quaternary Research</i> , 2005, 63, 60-77.	1.0	122
7	Reconstructing low levels of Lake Lisan by correlating fan-delta and lacustrine deposits. <i>Quaternary International</i> , 2000, 73-74, 137-144.	0.7	110
8	Recognition of earthquake-related damage in archaeological sites: Examples from the Dead Sea fault zone. <i>Tectonophysics</i> , 2008, 453, 148-156.	0.9	106
9	Seismogenic slump folds formed by gravity-driven tectonics down a negligible subaqueous slope. <i>Tectonophysics</i> , 2013, 605, 48-69.	0.9	101
10	Late Holocene activity of the Dead Sea Transform revealed in 3D palaeoseismic trenches on the Jordan Gorge segment. <i>Earth and Planetary Science Letters</i> , 2005, 234, 189-205.	1.8	100
11	Archaeology, history, and geology of the A.D. 749 earthquake, Dead Sea transform. <i>Geology</i> , 2003, 31, 665.	2.0	96
12	Future trends in paleoseismology: Integrated study of the seismic landscape as a vital tool in seismic hazard analyses. <i>Tectonophysics</i> , 2005, 408, 3-21.	0.9	90
13	817-Year-old walls offset sinistrally 2.1 m by the Dead Sea transform, Israel. <i>Journal of Geodynamics</i> , 1997, 24, 11-20.	0.7	84
14	A large-scale radial pattern of seismogenic slumping towards the Dead Sea Basin. <i>Journal of the Geological Society</i> , 2012, 169, 99-110.	0.9	69
15	Fold and fabric relationships in temporally and spatially evolving slump systems: A multi-cell flow model. <i>Journal of Structural Geology</i> , 2014, 63, 27-49.	1.0	69
16	High-resolution stratigraphy reveals repeated earthquake faulting in the Masada Fault Zone, Dead Sea Transform. <i>Tectonophysics</i> , 2005, 408, 101-112.	0.9	67
17	Sedimentary and structural controls on seismogenic slumping within mass transport deposits from the Dead Sea Basin. <i>Sedimentary Geology</i> , 2016, 344, 71-90.	1.0	64
18	Earthquake-induced clastic dikes detected by anisotropy of magnetic susceptibility. <i>Geology</i> , 2006, 34, 69.	2.0	63

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19	Fold and thrust systems in Mass Transport Deposits. <i>Journal of Structural Geology</i> , 2017, 94, 98-115.	1.0	57
20	The Seismicity along the Dead Sea Fault during the Last 60,000 Years. <i>Bulletin of the Seismological Society of America</i> , 2009, 99, 2020-2026.	1.1	53
21	Quantitative analysis of seismogenic shear-induced turbulence in lake sediments. <i>Geology</i> , 2010, 38, 303-306.	2.0	53
22	Identifying soft-sediment deformation in rocks. <i>Journal of Structural Geology</i> , 2019, 125, 248-255.	1.0	53
23	Tsunami and seiche-triggered deformation within offshore sediments. <i>Sedimentary Geology</i> , 2012, 261-262, 90-107.	1.0	52
24	A 40,000 year unchanging seismic regime in the Dead Sea rift. <i>Geology</i> , 2005, 33, 257.	2.0	49
25	Soft sediment deformation by Kelvin Helmholtz Instability: A case from Dead Sea earthquakes. <i>Earth and Planetary Science Letters</i> , 2005, 236, 497-504.	1.8	48
26	Sinkhole characterization in the Dead Sea area using airborne laser scanning. <i>Natural Hazards</i> , 2011, 58, 1135-1154.	1.6	44
27	Slip rate and slip magnitudes of past earthquakes along the Bogd left-lateral strike-slip fault (Mongolia). <i>Geophysical Journal International</i> , 2011, 186, 897-927.	1.0	40
28	Cycles of passive versus active diapirism recorded along an exposed salt wall. <i>Journal of Structural Geology</i> , 2016, 84, 47-67.	1.0	40
29	High-resolution record of geomagnetic secular variation from Late Pleistocene Lake Lisan sediments (paleo Dead Sea). <i>Earth and Planetary Science Letters</i> , 1998, 161, 145-160.	1.8	38
30	Large earthquakes kill coral reefs at the north-west Gulf of Aqaba. <i>Terra Nova</i> , 2004, 16, 133-138.	0.9	37
31	Temporal variation in the geometry of a strike-slip fault zone: Examples from the Dead Sea Transform. <i>Tectonophysics</i> , 2007, 445, 186-199.	0.9	37
32	Deformation within an exposed salt wall: Recumbent folding and extrusion of evaporites in the Dead Sea Basin. <i>Journal of Structural Geology</i> , 2015, 70, 95-118.	1.0	35
33	Assessment of seismic sources and capable faults through hierarchic tectonic criteria: implications for seismic hazard in the Levant. <i>Natural Hazards and Earth System Sciences</i> , 2020, 20, 125-148.	1.5	34
34	A Paleoseismic Record of Earthquakes for the Dead Sea Transform Fault between the First and Seventh Centuries C.E.: Nonperiodic Behavior of a Plate Boundary Fault. <i>Bulletin of the Seismological Society of America</i> , 2014, 104, 1329-1347.	1.1	32
35	Intraclast breccias in laminated sequences reviewed: Recorders of paleo-earthquakes. , 2006, , .		31
36	Injection mechanism of clay-rich sediments into dikes during earthquakes. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	1.0	30

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37	Review of On-Fault Palaeoseismic Studies Along the Dead Sea Fault. <i>Modern Approaches in Solid Earth Sciences</i> , 2014, , 183-205.	0.1	30
38	Radial clastic dykes formed by a salt diapir in the Dead Sea Rift, Israel. <i>Terra Nova</i> , 2002, 14, 288-294.	0.9	29
39	Integrated Paleoseismic Chronology of the Last Glacial Lake Lisan: From Lake Margin Seismites to Deep-Lake Mass Transport Deposits. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 2806-2824.	1.4	29
40	Interpreting Soft Sediment Deformation and Mass Transport Deposits as Seismites in the Dead Sea Depocenter. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 8305-8325.	1.4	28
41	A 220,000-year-long continuous large earthquake record on a slow-slipping plate boundary. <i>Science Advances</i> , 2020, 6, .	4.7	28
42	Upslope-verging back thrusts developed during downslope-directed slumping of mass transport deposits. <i>Journal of Structural Geology</i> , 2017, 100, 45-61.	1.0	27
43	Distinguishing thrust sequences in gravity-driven fold and thrust belts. <i>Journal of Structural Geology</i> , 2018, 109, 99-119.	1.0	26
44	Estimating location and size of historical earthquake by combining archaeology and geology in Umm-El-Qanatir, Dead Sea Transform. <i>Natural Hazards</i> , 2009, 50, 27-43.	1.6	25
45	Impact of earthquakes on agriculture during the Roman-Byzantine period from pollen records of the Dead Sea laminated sediment. <i>Quaternary Research</i> , 2010, 73, 191-200.	1.0	25
46	Precision of Calibrated Radiocarbon Ages of Historic Earthquakes in the Dead Sea Basin. <i>Radiocarbon</i> , 2001, 43, 1371-1382.	0.8	23
47	New Dates from Submerged Late Pleistocene Sediments in the Southern Sea of Galilee, Israel. <i>Radiocarbon</i> , 2001, 43, 1167-1178.	0.8	22
48	Archaeological record of earthquake ruptures in Tell Ateret, the Dead Sea Fault. <i>Tectonics</i> , 2015, 34, 2105-2117.	1.3	22
49	Fault and fracture patterns around a strike-slip influenced salt wall. <i>Journal of Structural Geology</i> , 2018, 106, 103-124.	1.0	22
50	Late Holocene shorelines at the Gulf of Aqaba: migrating shorelines under conditions of tectonic and sea level stability. <i>Stephan Mueller Special Publication Series</i> , 0, 2, 105-111.	0.0	21
51	Evolution of fringing reefs: space and time constraints from the Gulf of Aqaba. <i>Coral Reefs</i> , 2005, 24, 165-172.	0.9	20
52	Magnetic fabrics induced by dynamic faulting reveal damage zone sizes in soft rocks, Dead Sea basin. <i>Geophysical Journal International</i> , 2014, 199, 1214-1229.	1.0	20
53	Improving the method of low-temperature anisotropy of magnetic susceptibility (LT-AMS) measurements in air. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 2940-2950.	1.0	20
54	Re-estimating the epicenter of the 1927 Jericho earthquake using spatial distribution of intensity data. <i>Journal of Applied Geophysics</i> , 2012, 82, 19-29.	0.9	19

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55	Kinematics of Mass Transport Deposits revealed by magnetic fabrics. <i>Geophysical Research Letters</i> , 2017, 44, 7743-7749.	1.5	19
56	Fire and collapse: Untangling the formation of destruction layers using archaeomagnetism. <i>Geoarchaeology - an International Journal</i> , 2018, 33, 513-528.	0.7	19
57	A 45 kyr laminae record from the Dead Sea: Implications for basin erosion and floods recurrence. <i>Quaternary Science Reviews</i> , 2020, 229, 106143.	1.4	19
58	Deriving a long paleoseismic record from a shallow-water Holocene basin next to the Alpine fault, New Zealand. <i>Bulletin of the Geological Society of America</i> , 2013, 125, 811-832.	1.6	18
59	Increased sedimentation following the Neolithic Revolution in the Southern Levant. <i>Global and Planetary Change</i> , 2017, 152, 199-208.	1.6	18
60	The First Catalog of Archaeomagnetic Directions From Israel With 4,000 Years of Geomagnetic Secular Variations. <i>Frontiers in Earth Science</i> , 2018, 6, .	0.8	18
61	Recognising surface versus sub-surface deformation of soft-sediments: Consequences and considerations for palaeoseismic studies. <i>Journal of Structural Geology</i> , 2022, 154, 104493.	1.0	18
62	The association of micro-ε earthquake clusters with mapped faults in the Dead Sea basin. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 8312-8330.	1.4	17
63	Quantifying Earthquake Effects on Ancient Arches, Example: The Kalat Nimrod Fortress, Dead Sea Fault Zone. <i>Seismological Research Letters</i> , 2016, 87, 751-764.	0.8	16
64	Distinguishing coeval patterns of contraction and collapse around flow lobes in mass transport deposits. <i>Journal of Structural Geology</i> , 2020, 134, 104013.	1.0	16
65	Late Holocene events that shaped the shoreline at the northern Gulf of Aqaba recorded by a buried fossil reef. <i>Israel Journal of Earth Sciences</i> , 2009, 58, 355-368.	0.3	16
66	Sea of Galilee: Comprehensive analysis of magnetic anomalies. <i>Israel Journal of Earth Sciences</i> , 2004, 53, 151-171.	0.3	16
67	The Feasibility of Using <i>Melanopsis</i> Shells as Radiocarbon Chronometers, Lake Kinneret, Israel. <i>Radiocarbon</i> , 2007, 49, 1003-1015.	0.8	15
68	Characterization of land degradation along the receding Dead Sea coastal zone using airborne laser scanning. <i>Geomorphology</i> , 2014, 206, 403-420.	1.1	15
69	Characterizing seismites with anisotropy of magnetic susceptibility. <i>Geology</i> , 2018, 46, 827-830.	2.0	15
70	Bed-parallel slip: Identifying missing displacement in mass transport deposits. <i>Journal of Structural Geology</i> , 2020, 131, 103952.	1.0	15
71	The Ruin of the Roman Temple of Kedesh, Israel; Example of a Precariously Balanced Archaeological Structure Used as a Seismoscope. <i>Annals of Geophysics</i> , 2017, 60, .	0.5	15
72	Anisotropy of magnetic susceptibility in diamagnetic limestones reveals deflection of the strain field near the Dead Sea Fault, northern Israel. <i>Tectonophysics</i> , 2015, 656, 175-189.	0.9	14

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73	A New Approach to Constrain the Seismic Origin for Prehistoric Turbidites as Applied to the Dead Sea Basin. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090947.	1.5	14
74	Clastic dikes in the Dead Sea basin as indicators of local site amplification. <i>Natural Hazards</i> , 2015, 75, 1649-1676.	1.6	13
75	Lake Kinneret levels and active faulting in the Tiberias area. <i>Israel Journal of Earth Sciences</i> , 2004, 53, 199-205.	0.3	13
76	The use of acoustic imaging to reveal fossil fluvial systems—a case study from the southwestern Sea of Galilee. <i>Geomorphology</i> , 2007, 83, 58-66.	1.1	12
77	Evaluating earthquake-induced rockfall hazard near the Dead Sea Transform. <i>Natural Hazards and Earth System Sciences</i> , 2019, 19, 889-906.	1.5	12
78	Detachment fold duplexes within gravity-driven fold and thrust systems. <i>Journal of Structural Geology</i> , 2021, 142, 104207.	1.0	12
79	Resolving a historical earthquake date at Tel Yavneh (central Israel) using pollen seasonality. <i>Palynology</i> , 2016, 40, 145-159.	0.7	11
80	Folding during soft-sediment deformation. <i>Geological Society Special Publication</i> , 2020, 487, 81-104.	0.8	11
81	Relating strain localization and Kaiser effect to yield surface evolution in brittle rocks. <i>Geophysical Journal International</i> , 2020, 221, 2091-2103.	1.0	11
82	Magnetic properties of Lake Lisan and Holocene Dead Sea sediments and the fidelity of chemical and detrital remanent magnetization. , 2006, , .		10
83	Is the Jericho Escarpment a Tectonic or a Geomorphological Feature? Active Faulting and Paleoseismic Trenching. <i>Journal of Geology</i> , 2010, 118, 261-276.	0.7	10
84	Separation of Diamagnetic and Paramagnetic Fabrics Reveals Strain Directions in Carbonate Rocks. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 2035-2048.	1.4	10
85	Earthquake-induced barium anomalies in the Lisan Formation, Dead Sea Rift valley, Israel. <i>Earth and Planetary Science Letters</i> , 2009, 286, 219-229.	1.8	9
86	Effects of pre-existing faults on compaction localization in porous sandstones. <i>Tectonophysics</i> , 2018, 747-748, 1-15.	0.9	9
87	Strain Field Associated With a Component of Divergent Motion Along the Southern Dead Sea Fault: Insights From Magnetic Fabrics. <i>Tectonics</i> , 2019, 38, 335-353.	1.3	9
88	Late Pleistocene paleomagnetic secular variation from the Sea of Galilee, Israel. <i>Geophysical Research Letters</i> , 2002, 29, 11-1.	1.5	8
89	Possible connection between large volcanic eruptions and level rise episodes in the Dead Sea Basin. <i>Quaternary Science Reviews</i> , 2014, 89, 123-128.	1.4	8
90	Orbital—and Millennial—Scale Changes in Lake—Levels Facilitate Earthquake—Triggered Mass Failures in the Dead Sea Basin. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093391.	1.5	8

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91	Reconstructing the slip velocities of the 1202 and 1759 CE earthquakes based on faulted archaeological structures at Tell Ateret, Dead Sea Fault. <i>Journal of Seismology</i> , 2021, 25, 1021-1042.	0.6	7
92	Intensity and direction of the geomagnetic field on 24 August 1179 measured at Vadum Iacob (Ateret) Crusader fortress, northern Israel. <i>Israel Journal of Earth Sciences</i> , 2003, 52, 203-208.	0.3	7
93	Historical sand injections on the Mediterranean shore of Israel: evidence for liquefaction hazard. <i>Natural Hazards</i> , 2014, 74, 1449-1459.	1.6	6
94	A Submerged Monumental Structure in the Sea of Galilee, Israel. <i>International Journal of Nautical Archaeology</i> , 2013, 42, 189-193.	0.1	5
95	Seismic potential of the Dead Sea Fault in the northern Gulf of Aqaba-Elat: New evidence from liquefaction, seismic reflection, and paleoseismic data. <i>Tectonophysics</i> , 2020, 793, 228596.	0.9	5
96	Zones of inelastic deformation around surface ruptures detected by magnetic fabrics. <i>Tectonophysics</i> , 2020, 788, 228502.	0.9	5
97	A Paleoseismic Record Spanning 2â€Myr Reveals Episodic Late Pliocene Deformation in the Western Qaidam Basin, NE Tibet. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090530.	1.5	5
98	Chemical remanent magnetism related to the Dead Sea Rift: Evidence from Precambrian igneous rocks of Mount Timna, southern Israel. <i>Journal of Geophysical Research</i> , 1993, 98, 16001-16012.	3.3	4
99	Criteria to discriminate between different models of thrust ramping in gravity-driven fold and thrust systems. <i>Journal of Structural Geology</i> , 2021, 150, 104396.	1.0	4
100	Asymmetry of faults and stress patterns within the Dead Sea basin as displayed by seismological analysis. <i>Tectonophysics</i> , 2021, 819, 229069.	0.9	4
101	Archaeoseismic Evidence of Two Neolithic (7,500-6,000 B.C.) Earthquakes at Tell es-Sultan, Ancient Jericho, Dead Sea Fault. <i>Seismological Research Letters</i> , 2012, 83, 639-648.	0.8	3
102	Using trapped waves for mapping shallow fault zones. <i>Near Surface Geophysics</i> , 2005, 3, 95-101.	0.6	3
103	The locking-in of remanence in upper Pleistocene sediments of Lake Lisan (palaeo Dead Sea). <i>Geological Society Special Publication</i> , 1999, 151, 47-52.	0.8	2
104	Use of airborne laser scanning to characterise land degradation processes â€“ the Dead Sea as a case study. <i>Survey Review</i> , 2012, 44, 84-90.	0.7	2
105	Anisotropic surface-wave characterization of granular media. <i>Geophysics</i> , 2017, 82, MR191-MR200.	1.4	2
106	Criteria to identify sedimentary sills intruded during deformation of lacustrine sequences. <i>Journal of Structural Geology</i> , 2022, 160, 104633.	1.0	2
107	Considerations for anisotropic surface-wave inversion. , 2017, , .		1
108	Myth written in stone. The submerged monument in the kinneret sea in the light of the ugaritic myth of aqhat. <i>Time and Mind</i> , 2021, 14, 327-341.	0.4	1

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109	Seismic characteristics of shallow fault zones. , 2003, , .		0