Shmuel Marco

List of Publications by Year
in descending order

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	Recognising surface versus sub-surface deformation of soft-sediments: Consequences and considerations for palaeoseismic studies. Journal of Structural Geology, 2022, 154, 104493.	1.0	18
2	Criteria to identify sedimentary sills intruded during deformation of lacustrine sequences. Journal of Structural Geology, 2022, 160, 104633.	1.0	2
3	Detachment fold duplexes within gravity-driven fold and thrust systems. Journal of Structural Geology, 2021, 142, 104207.	1.0	12
4	A New Approach to Constrain the Seismic Origin for Prehistoric Turbidites as Applied to the Dead Sea Basin. Geophysical Research Letters, 2021, 48, e2020GL090947.	1.5	14
5	Myth written in stone. The submerged monument in the kinneret sea in the light of the ugaritic myth of aqhat. Time and Mind, 2021, 14, 327-341.	0.4	1
6	A Paleoseismic Record Spanning 2â€Myr Reveals Episodic Late Pliocene Deformation in the Western Qaidam Basin, NE Tibet. Geophysical Research Letters, 2021, 48, e2020GL090530.	1.5	5
7	Reconstructing the slip velocities of the 1202 and 1759 CE earthquakes based on faulted archaeological structures at Tell Ateret, Dead Sea Fault. Journal of Seismology, 2021, 25, 1021-1042.	0.6	7
8	Orbitalâ€and Millennialâ€Scale Changes in Lakeâ€Levels Facilitate Earthquakeâ€Triggered Mass Failures in the Dead Sea Basin. Geophysical Research Letters, 2021, 48, e2021GL093391.	1.5	8
9	Criteria to discriminate between different models of thrust ramping in gravity-driven fold and thrust systems. Journal of Structural Geology, 2021, 150, 104396.	1.0	4
10	Asymmetry of faults and stress patterns within the Dead Sea basin as displayed by seismological analysis. Tectonophysics, 2021, 819, 229069.	0.9	4
11	Folding during soft-sediment deformation. Geological Society Special Publication, 2020, 487, 81-104.	0.8	11
12	A 45 kyr laminae record from the Dead Sea: Implications for basin erosion and floods recurrence. Quaternary Science Reviews, 2020, 229, 106143.	1.4	19
13	Bed-parallel slip: Identifying missing displacement in mass transport deposits. Journal of Structural Geology, 2020, 131, 103952.	1.0	15
14	A 220,000-year-long continuous large earthquake record on a slow-slipping plate boundary. Science Advances, 2020, 6, .	4.7	28
15	Seismic potential of the Dead Sea Fault in the northern Gulf of Aqaba-Elat: New evidence from liquefaction, seismic reflection, and paleoseismic data. Tectonophysics, 2020, 793, 228596.	0.9	5
16	Zones of inelastic deformation around surface ruptures detected by magnetic fabrics. Tectonophysics, 2020, 788, 228502.	0.9	5
17	Distinguishing coeval patterns of contraction and collapse around flow lobes in mass transport deposits. Journal of Structural Geology, 2020, 134, 104013.	1.0	16
18	Assessment of seismic sources and capable faults through hierarchic tectonic criteria: implications for seismic hazard in the Levant. Natural Hazards and Earth System Sciences, 2020, 20, 125-148.	1.5	34

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19	Relating strain localization and Kaiser effect to yield surface evolution in brittle rocks. Geophysical Journal International, 2020, 221, 2091-2103.	1.0	11
20	Evaluating earthquake-induced rockfall hazard near the Dead Sea Transform. Natural Hazards and Earth System Sciences, 2019, 19, 889-906.	1.5	12
21	Strain Field Associated With a Component of Divergent Motion Along the Southern Dead Sea Fault: Insights From Magnetic Fabrics. Tectonics, 2019, 38, 335-353.	1.3	9
22	Identifying soft-sediment deformation in rocks. Journal of Structural Geology, 2019, 125, 248-255.	1.0	53
23	Separation of Diamagnetic and Paramagnetic Fabrics Reveals Strain Directions in Carbonate Rocks. Journal of Geophysical Research: Solid Earth, 2018, 123, 2035-2048.	1.4	10
24	Distinguishing thrust sequences in gravity-driven fold and thrust belts. Journal of Structural Geology, 2018, 109, 99-119.	1.0	26
25	Integrated Paleoseismic Chronology of the Last Glacial Lake Lisan: From Lake Margin Seismites to Deepâ€Lake Mass Transport Deposits. Journal of Geophysical Research: Solid Earth, 2018, 123, 2806-2824.	1.4	29
26	Fire and collapse: Untangling the formation of destruction layers using archaeomagnetism. Geoarchaeology - an International Journal, 2018, 33, 513-528.	0.7	19
27	Fault and fracture patterns around a strike-slip influenced salt wall. Journal of Structural Geology, 2018, 106, 103-124.	1.0	22
28	Characterizing seismites with anisotropy of magnetic susceptibility. Geology, 2018, 46, 827-830.	2.0	15
29	The First Catalog of Archaeomagnetic Directions From Israel With 4,000 Years of Geomagnetic Secular Variations. Frontiers in Earth Science, 2018, 6, .	0.8	18
30	Effects of pre-existing faults on compaction localization in porous sandstones. Tectonophysics, 2018, 747-748, 1-15.	0.9	9
31	Increased sedimentation following the Neolithic Revolution in the Southern Levant. Global and Planetary Change, 2017, 152, 199-208.	1.6	18
32	Upslope-verging back thrusts developed during downslope-directed slumping of mass transport deposits. Journal of Structural Geology, 2017, 100, 45-61.	1.0	27
33	Considerations for anisotropic surface-wave inversion. , 2017, , .		1
34	Interpreting Soft Sediment Deformation and Mass Transport Deposits as Seismites in the Dead Sea Depocenter. Journal of Geophysical Research: Solid Earth, 2017, 122, 8305-8325.	1.4	28
35	Anisotropic surface-wave characterization of granular media. Geophysics, 2017, 82, MR191-MR200.	1.4	2
36	Fold and thrust systems in Mass Transport Deposits. Journal of Structural Geology, 2017, 94, 98-115.	1.0	57

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37	Kinematics of Mass Transport Deposits revealed by magnetic fabrics. Geophysical Research Letters, 2017, 44, 7743-7749.	1.5	19
38	The Ruin of the Roman Temple of Kedesh, Israel; Example of a Precariously Balanced Archaeological Structure Used as a Seismoscope. Annals of Geophysics, 2017, 60, .	0.5	15
39	Resolving a historical earthquake date at Tel Yavneh (central Israel) using pollen seasonality. Palynology, 2016, 40, 145-159.	0.7	11
40	Sedimentary and structural controls on seismogenic slumping within mass transport deposits from the Dead Sea Basin. Sedimentary Geology, 2016, 344, 71-90.	1.0	64
41	Improving the method of lowâ€temperature anisotropy of magnetic susceptibility (LTâ€AMS) measurements in air. Geochemistry, Geophysics, Geosystems, 2016, 17, 2940-2950.	1.0	20
42	Quantifying Earthquake Effects on Ancient Arches, Example: The Kalat Nimrod Fortress, Dead Sea Fault Zone. Seismological Research Letters, 2016, 87, 751-764.	0.8	16
43	Cycles of passive versus active diapirism recorded along an exposed salt wall. Journal of Structural Geology, 2016, 84, 47-67.	1.0	40
44	Archaeological record of earthquake ruptures in Tell Ateret, the Dead Sea Fault. Tectonics, 2015, 34, 2105-2117.	1.3	22
45	Clastic dikes in the Dead Sea basin as indicators of local site amplification. Natural Hazards, 2015, 75, 1649-1676.	1.6	13
46	Anisotropy of magnetic susceptibility in diamagnetic limestones reveals deflection of the strain field near the Dead Sea Fault, northern Israel. Tectonophysics, 2015, 656, 175-189.	0.9	14
47	Deformation within an exposed salt wall: Recumbent folding and extrusion of evaporites in the Dead Sea Basin. Journal of Structural Geology, 2015, 70, 95-118.	1.0	35
48	Possible connection between large volcanic eruptions and level rise episodes in the Dead Sea Basin. Quaternary Science Reviews, 2014, 89, 123-128.	1.4	8
49	Fold and fabric relationships in temporally and spatially evolving slump systems: A multi-cell flow model. Journal of Structural Geology, 2014, 63, 27-49.	1.0	69
50	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. Bulletin of the Seismological Society of America, 2014, 104, 1329-1347.	1.1	32
51	Magnetic fabrics induced by dynamic faulting reveal damage zone sizes in soft rocks, Dead Sea basin. Geophysical Journal International, 2014, 199, 1214-1229.	1.0	20
52	Historical sand injections on the Mediterranean shore of Israel: evidence for liquefaction hazard. Natural Hazards, 2014, 74, 1449-1459.	1.6	6
53	Characterization of land degradation along the receding Dead Sea coastal zone using airborne laser scanning. Geomorphology, 2014, 206, 403-420.	1.1	15
54	The association of microâ€earthquake clusters with mapped faults in the Dead Sea basin. Journal of Geophysical Research: Solid Earth, 2014, 119, 8312-8330.	1.4	17

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55	Review of On-Fault Palaeoseismic Studies Along the Dead Sea Fault. Modern Approaches in Solid Earth Sciences, 2014, , 183-205.	0.1	30
56	Seismogenic slump folds formed by gravity-driven tectonics down a negligible subaqueous slope. Tectonophysics, 2013, 605, 48-69.	0.9	101
57	Deriving a long paleoseismic record from a shallow-water Holocene basin next to the Alpine fault, New Zealand. Bulletin of the Geological Society of America, 2013, 125, 811-832.	1.6	18
58	A Submerged Monumental Structure in the Sea of Galilee, Israel. International Journal of Nautical Archaeology, 2013, 42, 189-193.	0.1	5
59	A large-scale radial pattern of seismogenic slumping towards the Dead Sea Basin. Journal of the Geological Society, 2012, 169, 99-110.	0.9	69
60	Use of airborne laser scanning to characterise land degradation processes â€“ the Dead Sea as a case study. Survey Review, 2012, 44, 84-90.	0.7	2
61	Archaeoseismic Evidence of Two Neolithic (7,500-6,000 B.C.) Earthquakes at Tell es-Sultan, Ancient Jericho, Dead Sea Fault. Seismological Research Letters, 2012, 83, 639-648.	0.8	3
62	Re-estimating the epicenter of the 1927 Jericho earthquake using spatial distribution of intensity data. Journal of Applied Geophysics, 2012, 82, 19-29.	0.9	19
63	Tsunami and seiche-triggered deformation within offshore sediments. Sedimentary Geology, 2012, 261-262, 90-107.	1.0	52
64	Slip rate and slip magnitudes of past earthquakes along the Bogd left-lateral strike-slip fault (Mongolia). Geophysical Journal International, 2011, 186, 897-927.	1.0	40
65	Soft-sediment deformation within seismogenic slumps of the Dead Sea Basin. Journal of Structural Geology, 2011, 33, 433-457.	1.0	154
66	Sinkhole characterization in the Dead Sea area using airborne laser scanning. Natural Hazards, 2011, 58, 1135-1154.	1.6	44
67	Quantitative analysis of seismogenic shear-induced turbulence in lake sediments. Geology, 2010, 38, 303-306.	2.0	53
68	Is the Jericho Escarpment a Tectonic or a Geomorphological Feature? Active Faulting and Paleoseismic Trenching. Journal of Geology, 2010, 118, 261-276.	0.7	10
69	Impact of earthquakes on agriculture during the Romanâ€“Byzantine period from pollen records of the Dead Sea laminated sediment. Quaternary Research, 2010, 73, 191-200.	1.0	25
70	Estimating location and size of historical earthquake by combining archaeology and geology in Umm-El-Qanatir, Dead Sea Transform. Natural Hazards, 2009, 50, 27-43.	1.6	25
71	Earthquake-induced barium anomalies in the Lisan Formation, Dead Sea Rift valley, Israel. Earth and Planetary Science Letters, 2009, 286, 219-229.	1.8	9
72	The Seismicity along the Dead Sea Fault during the Last 60,000 Years. Bulletin of the Seismological Society of America, 2009, 99, 2020-2026.	1.1	53

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73	Late Holocene events that shaped the shoreline at the northern Gulf of Aqaba recorded by a buried fossil reef. Israel Journal of Earth Sciences, 2009, 58, 355-368.	0.3	16
74	Recognition of earthquake-related damage in archaeological sites: Examples from the Dead Sea fault zone. Tectonophysics, 2008, 453, 148-156.	0.9	106
75	Temporal variation in the geometry of a strikeâ€“slip fault zone: Examples from the Dead Sea Transform. Tectonophysics, 2007, 445, 186-199.	0.9	37
76	The use of acoustic imaging to reveal fossil fluvial systemsâ€”a case study from the southwestern Sea of Galilee. Geomorphology, 2007, 83, 58-66.	1.1	12
77	The Feasibility of Using Melanopsis Shells as Radiocarbon Chronometers, Lake Kinneret, Israel. Radiocarbon, 2007, 49, 1003-1015.	0.8	15
78	Injection mechanism of clay-rich sediments into dikes during earthquakes. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	1.0	30
79	Magnetic properties of Lake Lisan and Holocene Dead Sea sediments and the fidelity of chemical and detrital remanent magnetization. , 2006, , .		10
80	Earthquake-induced clastic dikes detected by anisotropy of magnetic susceptibility. Geology, 2006, 34, 69.	2.0	63
81	Intraclast breccias in laminated sequences reviewed: Recorders of paleo-earthquakes. , 2006, , .		31
82	A 40,000 year unchanging seismic regime in the Dead Sea rift. Geology, 2005, 33, 257.	2.0	49
83	The late Quaternary limnological history of Lake Kinneret (Sea of Galilee), Israel. Quaternary Research, 2005, 63, 60-77.	1.0	122
84	Evolution of fringing reefs: space and time constraints from the Gulf of Aqaba. Coral Reefs, 2005, 24, 165-172.	0.9	20
85	Late Holocene activity of the Dead Sea Transform revealed in 3D palaeoseismic trenches on the Jordan Gorge segment. Earth and Planetary Science Letters, 2005, 234, 189-205.	1.8	100
86	Soft sediment deformation by Kelvin Helmholtz Instability: A case from Dead Sea earthquakes. Earth and Planetary Science Letters, 2005, 236, 497-504.	1.8	48
87	Future trends in paleoseismology: Integrated study of the seismic landscape as a vital tool in seismic hazard analyses. Tectonophysics, 2005, 408, 3-21.	0.9	90
88	High-resolution stratigraphy reveals repeated earthquake faulting in the Masada Fault Zone, Dead Sea Transform. Tectonophysics, 2005, 408, 101-112.	0.9	67
89	Using trapped waves for mapping shallow fault zones. Near Surface Geophysics, 2005, 3, 95-101.	0.6	3
90	Large earthquakes kill coral reefs at the north-west Gulf of Aqaba. Terra Nova, 2004, 16, 133-138.	0.9	37

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91	Lake Kinneret levels and active faulting in the Tiberias area. Israel Journal of Earth Sciences, 2004, 53, 199-205.	0.3	13
92	Sea of Galilee: Comprehensive analysis of magnetic anomalies. Israel Journal of Earth Sciences, 2004, 53, 151-171.	0.3	16
93	Archaeology, history, and geology of the A.D. 749 earthquake, Dead Sea transform. Geology, 2003, 31, 665.	2.0	96
94	Intensity and direction of the geomagnetic field on 24 August 1179 measured at Vadum Iacob (Ateret) Crusader fortress, northern Israel. Israel Journal of Earth Sciences, 2003, 52, 203-208.	0.3	7
95	Seismic characteristics of shallow fault zones. , 2003, , .		0
96	Late Pleistocene paleomagnetic secular variation from the Sea of Galilee, Israel. Geophysical Research Letters, 2002, 29, 11-1.	1.5	8
97	Radial clastic dykes formed by a salt diapir in the Dead Sea Rift, Israel. Terra Nova, 2002, 14, 288-294.	0.9	29
98	High-resolution geological record of historic earthquakes in the Dead Sea basin. Journal of Geophysical Research, 2001, 106, 2221-2234.	3.3	162
99	New Dates from Submerged Late Pleistocene Sediments in the Southern Sea of Galilee, Israel. Radiocarbon, 2001, 43, 1167-1178.	0.8	22
100	Precision of Calibrated Radiocarbon Ages of Historic Earthquakes in the Dead Sea Basin. Radiocarbon, 2001, 43, 1371-1382.	0.8	23
101	Reconstructing low levels of Lake Lisan by correlating fan-delta and lacustrine deposits. Quaternary International, 2000, 73-74, 137-144.	0.7	110
102	The locking-in of remanence in upper Pleistocene sediments of Lake Lisan (palaeo Dead Sea). Geological Society Special Publication, 1999, 151, 47-52.	0.8	2
103	High-resolution record of geomagnetic secular variation from Late Pleistocene Lake Lisan sediments (paleo Dead Sea). Earth and Planetary Science Letters, 1998, 161, 145-160.	1.8	38
104	Crusader castle torn apart by earthquake at dawn, 20 May 1202. Geology, 1998, 26, 303.	2.0	130
105	817-Year-old walls offset sinistrally 2.1 m by the Dead Sea transform, Israel. Journal of Geodynamics, 1997, 24, 11-20.	0.7	84
106	Long-term earthquake clustering: A 50,000-year paleoseismic record in the Dead Sea Graben. Journal of Geophysical Research, 1996, 101, 6179-6191.	3.3	329
107	Prehistoric earthquake deformations near Masada, Dead Sea graben. Geology, 1995, 23, 695.	2.0	157
108	Chemical remanent magnetism related to the Dead Sea Rift: Evidence from Precambrian igneous rocks of Mount Timna, southern Israel. Journal of Geophysical Research, 1993, 98, 16001-16012.	3.3	4

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109	Late Holocene shorelines at the Gulf of Aqaba: migrating shorelines under conditions of tectonic and sea level stability. Stephan Mueller Special Publication Series, 0, 2, 105-111.	0.0	21