Mariano Cerca

List of Publications by Year
in descending order

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27 papers	313 citations	1162889 8 h-index	940416 16 g-index
28 all docs	28 docs citations	28 times ranked	426 citing authors

#	Article	IF	Citations
1	Microstructural effects on the unconfined mechanical behavior of a tectonically deformed calcareous shale, a study case in the Santiago Formation, MÃ©xico. Journal of Petroleum Science and Engineering, 2022, 217, 110856.	2.1	2
2	Dynamic three-dimensional displacement analysis of small-scale granular flows by fringe projection and digital image correlation. Landslides, 2020, 17, 825-837.	2.7	2
3	The Eocene-Oligocene Nanchititla dike swarm, eastern MichoacÃ¡n, MÃ©xico. Journal of Maps, 2020, 16, 87-97.	1.0	2
4	Strain partitioning in highly oblique rift settings: Inferences from the southwestern margin of the Gulf of California (Baja California Sur, MÃ©xico). Tectonics, 2019, 38, 4426-4453.	1.3	9
5	Extant microbial communities in the partially desiccated Rincon de Parangueo maar crater lake in Mexico. FEMS Microbiology Ecology, 2019, 95, .	1.3	5
6	Analogue model of gravity driven deformation in the salt tectonics zone of northeastern Mexico. Revista Mexicana De Ciencias Geologicas, 2018, 35, 277-290.	0.2	3
7	Early Miocene shortening in the lower ComondÃº Group in Baja California Sur (MÃ©xico). Tectonophysics, 2017, 719-720, 135-147.	0.9	3
8	Onshore and offshore apatite fission-track dating from the southern Gulf of California: Insights into the time-space evolution of the rifting. Tectonophysics, 2017, 719-720, 148-161.	0.9	14
9	Structural evidence of enhanced active subsidence at the bottom of a maar: RincÃ³n de Parangueo, MÃ©xico. Geological Society Special Publication, 2017, 446, 225-254.	0.8	6
10	Benchmarking analogue models of brittle thrust wedges. Journal of Structural Geology, 2016, 92, 116-139.	1.0	58
11	Soil fracturing identification in Southern Zona Metropolitana del Valle de Mexico by means of multi-pass InSAR and GPR. , 2015, , .		0
12	Assessment of groundwater flow in volcanic faulted areas. A study case in Queretaro, Mexico. Geofisica International, 2015, 54, 199-220.	0.2	20
13	Holocene paleo-earthquakes recorded at the transfer zone of two major faults: The Pastores and Venta de Bravo faults (Trans-Mexican Volcanic Belt). , 2015, 11, 160-184.		21
14	Engineering geology approach to the effects of land subsidence in Mexico City. , 2012, , 115-134.		4
15	Analogue model of inversion tectonics explaining the structural diversity of Late Cretaceous shortening in southwestern Mexico. Lithosphere, 2010, 2, 172-187.	0.6	12
16	Land cover monitoring by fractal analysis of digital images. Geoderma, 2010, 160, 83-92.	2.3	6
17	Analogue models of an Early Cenozoic transpressive regime in southern Mexico: implications on the evolution of the Xolapa complex and the North American-Caribbean Plate boundary. Geological Society Special Publication, 2009, 328, 181-195.	0.8	1
18	The Cenozoic tectonic and magmatic evolution of southwestern Mèxico: Advances and problems of interpretation. , 2007, , .		18

#	Article	IF	Citations
19	Late Cretaceous shortening and early Tertiary shearing in the central Sierra Madre del Sur, southern Mexico: Insights into the evolution of the Caribbean-North American plate interaction. Tectonics, 2007, 26, n/a-n/a.	1.3	67
20	Delineating the nearâ€surface geometry of the fracture system affecting the Valley of QuerÃ©taro, Mexico: Correlation of GPR signatures and physical properties of sediments. Near Surface Geophysics, 2006, 4, 49-55.	0.6	13
21	Geomorphological evidence of the influence of pre-volcanic basement structure on emplacement and deformation of volcanic edifices at the Cofre de Peroteâ€“Pico de Orizaba chain and implications for avalanche generation. Geomorphology, 2005, 72, 19-39.	1.1	23
22	The role of crustal heterogeneity in controlling vertical coupling during Laramide shortening and the development of the Caribbean-North America transform boundary in southern Mexico: insights from analogue models. Geological Society Special Publication, 2004, 227, 117-139.	0.8	14
23	Mass movement processes triggered by land subsidence in Iztapalapa, the eastern part of Mexico City. Proceedings of the International Association of Hydrological Sciences, 0, 372, 261-265.	1.0	3
24	Analysis of the variation of the compressibility index (Cc) of volcanic clays and its application to estimate subsidence in lacustrine areas. Proceedings of the International Association of Hydrological Sciences, 0, 372, 273-279.	1.0	2
25	Physical experiments of land subsidence within a maar crater: insights for porosity variations and fracture localization. Proceedings of the International Association of Hydrological Sciences, 0, 372, 285-290.	1.0	3
26	Factors that condition physical vulnerability to ground fracturing in Mexico City. Proceedings of the International Association of Hydrological Sciences, 0, 382, 571-576.	1.0	1
27	Analogue model of ground ruptures due to groundwater pumping in an aquifer above a bedrock ridge. Proceedings of the International Association of Hydrological Sciences, 0, 382, 433-436.	1.0	1