Elias Lewi Teklemariam

List of Publications by Year
in descending order

30 papers	1,426 citations	471509 17 h-index	501196 28 g-index
30 all docs	30 docs citations	30 times ranked	1110 citing authors

#	Article	IF	Citations
1	Geophysical constraints on the dynamics of spreading centres from rifting episodes on land. Nature Geoscience, 2012, 5, 242-250.	12.9	231
2	Evidence for focused magmatic accretion at segment centers from lateral dike injections captured beneath the Red Sea rift in Afar. Geology, 2009, 37, 59-62.	4.4	154
3	Pulses of deformation reveal frequently recurring shallow magmatic activity beneath the Main Ethiopian Rift. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	2.5	135
4	Geodetic observations of the ongoing Dabbahu rifting episode: new dyke intrusions in 2006 and 2007. Geophysical Journal International, 2009, 178, 989-1003.	2.4	101
5	Recent rift-related volcanism in Afar, Ethiopia. Earth and Planetary Science Letters, 2010, 292, 409-418.	4.4	87
6	The eruptive history and magmatic evolution of Aluto volcano: new insights into silicic peralkaline volcanism in the Ethiopian rift. Journal of Volcanology and Geothermal Research, 2016, 328, 9-33.	2.1	77
7	Causes of unrest at silicic calderas in the East African Rift: New constraints from InSAR and soilâ€gas chemistry at Aluto volcano, Ethiopia. Geochemistry, Geophysics, Geosystems, 2016, 17, 3008-3030.	2.5	68
8	Stress transfer between thirteen successive dyke intrusions in Ethiopia. Nature Geoscience, 2010, 3, 713-717.	12.9	62
9	Integrated field, satellite and petrological observations of the November 2010 eruption of Erta Ale. Bulletin of Volcanology, 2012, 74, 2251-2271.	3.0	62
10	Current plate boundary deformation of the Afar rift from a 3â€Ð velocity field inversion of InSAR and GPS. Journal of Geophysical Research: Solid Earth, 2014, 119, 8562-8575.	3.4	56
11	Postâ€rifting relaxation in the Afar region, Ethiopia. Geophysical Research Letters, 2009, 36, .	4.0	43
12	GPS constraints on broad scale extension in the Ethiopian Highlands and Main Ethiopian Rift. Geophysical Research Letters, 2016, 43, 6844-6851.	4.0	41
13	InSAR observations of post-rifting deformation around the Dabbahu rift segment, Afar, Ethiopia. Geophysical Journal International, 2014, 197, 33-49.	2.4	36
14	Evidence for cross rift structural controls on deformation and seismicity at a continental rift caldera. Earth and Planetary Science Letters, 2018, 487, 190-200.	4.4	36
15	Current deformation in Central Afar and triple junction kinematics deduced from GPS and InSAR measurements. Geophysical Journal International, 2017, 208, 936-953.	2.4	33
16	Accommodation of East African Rifting Across the Turkana Depression. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018469.	3.4	25
17	Landslide Hazard Zonation and Slope Instability Assessment using Optical and InSAR Data: A Case Study from Gidole Town and its Surrounding Areas, Southern Ethiopia. , 2019, 3, 1-14.		23
18	Sustained Uplift at a Continental Rift Caldera. Journal of Geophysical Research: Solid Earth, 2018, 123, 5209-5226.	3.4	22

#	Article	IF	Citations
19	Ductility and Compressibility Accommodate High Magma Flux Beneath a Silicic Continental Rift Caldera: Insights From Corbetti Caldera (Ethiopia). Geochemistry, Geophysics, Geosystems, 2020, 21, e2020GC008952.	2.5	19
20	Event Trees and Epistemic Uncertainty in Longâ€Term Volcanic Hazard Assessment of Rift Volcanoes: The Example of Aluto (Central Ethiopia). Geochemistry, Geophysics, Geosystems, 2020, 21, e2020GC009219.	2.5	16
21	Use of a high-precision gravity survey to understand the formation of oceanic crust and the role of melt at the southern Red Sea rift in Afar, Ethiopia. Geological Society Special Publication, 2016, 420, 165-180.	1.3	15
22	Spatial and temporal patterns of deformation at the Tendaho geothermal prospect, Ethiopia. Journal of Volcanology and Geothermal Research, 2018, 357, 56-67.	2.1	15
23	Seasonal patterns of seismicity and deformation at the Alutu geothermal reservoir, Ethiopia, induced by hydrological loading. Journal of Volcanology and Geothermal Research, 2018, 356, 175-182.	2.1	15
24	Ethiopian volcanic hazards: a changing research landscape. Geological Society Special Publication, 2016, 420, 355-365.	1.3	13
25	Geothermal energy resources in Ethiopia: Status review and insights from hydrochemistry of surface and groundwaters. Wiley Interdisciplinary Reviews: Water, 2021, 8, e1554.	6.5	11
26	Evidence for Active Rhyolitic dike Intrusion in the Northern Main Ethiopian Rift from the 2015 Fentale Seismic Swarm. Geochemistry, Geophysics, Geosystems, 2020, 21, e2019GC008550.	2.5	11
27	Spatialâ€“temporal variations of water vapor content over Ethiopia: a study using GPS observations and the ECMWF model. GPS Solutions, 2017, 21, 89-99.	4.3	9
28	A Method for Automatic Detection of Plasma Depletions by Using GNSS Measurements. Radio Science, 2020, 55, e2019RS006978.	1.6	6
29	On the Relationship between Low Latitude Scintillation Onset and Sunset Terminator over Africa. Remote Sensing, 2021, 13, 2087.	4.0	4
30	Resistivity survey to locate hot water reserves at Filwoha, Addis Ababa. Sinet, 1999, 22, 259.	0.3	0