

C J Ebinger

List of Publications by Year in descending order

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129
papers

10,916
citations

29994

54
h-index

31759

101
g-index

145
all docs

145
docs citations

145
times ranked

4364
citing authors

#	ARTICLE	IF	CITATIONS
1	Cenozoic magmatism throughout east Africa resulting from impact of a single plume. <i>Nature</i> , 1998, 395, 788-791.	13.7	711
2	Magma-maintained rift segmentation at continental rupture in the 2005 Afar dyking episode. <i>Nature</i> , 2006, 442, 291-294.	13.7	508
3	Tectonic development of the western branch of the East African rift system. <i>Bulletin of the Geological Society of America</i> , 1989, 101, 885-903.	1.6	422
4	Variations in the along-axis segmentation of the Afar Rift system. <i>Tectonics</i> , 1996, 15, 244-257.	1.3	382
5	Evolution of the northern Main Ethiopian rift: birth of a triple junction. <i>Earth and Planetary Science Letters</i> , 2004, 224, 213-228.	1.8	354
6	Magma-assisted rifting in Ethiopia. <i>Nature</i> , 2005, 433, 146-148.	13.7	302
7	Effective elastic plate thickness beneath the East African and Afar plateaus and dynamic compensation of the uplifts. <i>Journal of Geophysical Research</i> , 1989, 94, 2883-2901.	3.3	281
8	Late Eocene–Recent volcanism and faulting in the southern main Ethiopian rift. <i>Journal of the Geological Society</i> , 1993, 150, 99-108.	0.9	255
9	A kinematic model for the East African Rift. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	240
10	Geophysical constraints on the dynamics of spreading centres from rifting episodes on land. <i>Nature Geoscience</i> , 2012, 5, 242-250.	5.4	231
11	Rift deflection, migration, and propagation: Linkage of the Ethiopian and Eastern rifts, Africa. <i>Bulletin of the Geological Society of America</i> , 2000, 112, 163-176.	1.6	211
12	Evolution of a volcanic rifted margin: Southern Red Sea, Ethiopia. <i>Bulletin of the Geological Society of America</i> , 2005, 117, 846.	1.6	209
13	Strain accommodation by slow slip and dyking in a youthful continental rift, East Africa. <i>Nature</i> , 2008, 456, 783-787.	13.7	200
14	Geometric and kinematic development of border faults and accommodation zones, Kivu–Rusizi Rift, Africa. <i>Tectonics</i> , 1989, 8, 117-133.	1.3	199
15	Chronology of volcanism and rift basin propagation: Rungwe Volcanic Province, East Africa. <i>Journal of Geophysical Research</i> , 1989, 94, 15785-15803.	3.3	193
16	Continental break-up: The East African perspective. <i>Astronomy and Geophysics</i> , 2005, 46, 2.16-2.21.	0.1	189
17	Strain accommodation by magmatism and faulting as rifting proceeds to breakup: Seismicity of the northern Ethiopian rift. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	180
18	Massive and prolonged deep carbon emissions associated with continental rifting. <i>Nature Geoscience</i> , 2016, 9, 145-149.	5.4	178

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19	Tectonic development of the northern Tairaiian sector of the East African Rift System. <i>Journal of the Geological Society</i> , 1997, 154, 689-700.	0.9	174
20	Upper-mantle seismic structure in a region of incipient continental breakup: northern Ethiopian rift. <i>Geophysical Journal International</i> , 2005, 162, 479-493.	1.0	170
21	Length and Timescales of Rift Faulting and Magma Intrusion: The Afar Rifting Cycle from 2005 to Present. <i>Annual Review of Earth and Planetary Sciences</i> , 2010, 38, 439-466.	4.6	167
22	Evidence for focused magmatic accretion at segment centers from lateral dike injections captured beneath the Red Sea rift in Afar. <i>Geology</i> , 2009, 37, 59-62.	2.0	154
23	The nature of the crust beneath the Afar triple junction: Evidence from receiver functions. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	1.0	152
24	Fault growth at a nascent slow-spreading ridge: 2005 Dabbahu rifting episode, Afar. <i>Geophysical Journal International</i> , 0, 171, 1226-1246.	1.0	150
25	Rifting Archaean lithosphere: the Eyasi-Manyara-Natron rifts, East Africa. <i>Journal of the Geological Society</i> , 1997, 154, 947-960.	0.9	128
26	Shallow axial magma chamber at the slow-spreading Erta Ale Ridge. <i>Nature Geoscience</i> , 2012, 5, 284-288.	5.4	127
27	From rifting to oceanic spreading in the Gulf of Aden: a synthesis. <i>Arabian Journal of Geosciences</i> , 2012, 5, 859-901.	0.6	124
28	Capturing magma intrusion and faulting processes during continental rupture: seismicity of the Dabbahu (Afar) rift. <i>Geophysical Journal International</i> , 2008, 174, 1138-1152.	1.0	123
29	Multiple inflation and deflation events at Kenyan volcanoes, East African Rift. <i>Geology</i> , 2009, 37, 979-982.	2.0	123
30	Tectonic controls on rift basin morphology: Evolution of the northern Malawi (Nyasa) Rift. <i>Journal of Geophysical Research</i> , 1993, 98, 17821-17836.	3.3	116
31	Effective elastic thickness and crustal thickness variations in west central Africa inferred from gravity data. <i>Journal of Geophysical Research</i> , 1995, 100, 22047-22070.	3.3	114
32	Soft plates and hot spots: Views from Afar. <i>Journal of Geophysical Research</i> , 1996, 101, 21859-21876.	3.3	114
33	Mechanical strength of extended continental lithosphere: Constraints from the Western Rift System, East Africa. <i>Tectonics</i> , 1991, 10, 1239-1256.	1.3	104
34	Comparison of dike intrusions in an incipient seafloor-spreading segment in Afar, Ethiopia: Seismicity perspectives. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	104
35	Kinematics of the Danakil microplate. <i>Earth and Planetary Science Letters</i> , 2002, 203, 607-620.	1.8	101
36	Geodetic observations of the ongoing Dabbahu rifting episode: new dyke intrusions in 2006 and 2007. <i>Geophysical Journal International</i> , 2009, 178, 989-1003.	1.0	101

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37	September 2005 mega-dike emplacement in the Manda-Harraro nascent oceanic rift (Afar depression). <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	101
38	Inverse models of gravity data from the Red Sea-Aden-East African rifts triple junction zone. <i>Geophysical Journal International</i> , 2005, 163, 775-787.	1.0	100
39	Volcanism in the Afar Rift sustained by decompression melting with minimal plume influence. <i>Nature Geoscience</i> , 2012, 5, 406-409.	5.4	100
40	Structural evolution of Lake MalaÅµi, Africa. <i>Nature</i> , 1984, 308, 627-629.	13.7	94
41	Extensional basin geometry and the elastic lithosphere. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 1999, 357, 741-765.	1.6	91
42	Characteristics of volcanic rifted margins. , 2002, , .		90
43	Kinematics of the East African Rift from GPS and earthquake slip vector data. <i>Geological Society Special Publication</i> , 2006, 259, 9-22.	0.8	86
44	Strain accommodation in transitional rifts: extension by magma intrusion and faulting in Ethiopian rift magmatic segments. <i>Geological Society Special Publication</i> , 2006, 259, 143-163.	0.8	84
45	Crustal tomographic imaging of a transitional continental rift: the Ethiopian rift. <i>Geophysical Journal International</i> , 2008, 172, 1033-1048.	1.0	80
46	Formation and stability of magmatic segments in the Main Ethiopian and Afar rifts. <i>Earth and Planetary Science Letters</i> , 2010, 293, 225-235.	1.8	77
47	Mantle upwelling and initiation of rift segmentation beneath the Afar Depression. <i>Geology</i> , 2013, 41, 635-638.	2.0	76
48	Flexure and mechanical behavior of cratonic lithosphere: Gravity models of the East African and Baikal rifts. <i>Journal of Geophysical Research</i> , 2000, 105, 19151-19162.	3.3	75
49	Contrasted styles of rifting in the eastern Gulf of Aden: A combined wide-angle, multichannel seismic, and heat flow survey. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	1.0	75
50	Along-axis segmentation and isostasy in the Western rift, East Africa. <i>Journal of Geophysical Research</i> , 1996, 101, 3247-3268.	3.3	74
51	Crustal Structure of Active Deformation Zones in Africa: Implications for Global Crustal Processes. <i>Tectonics</i> , 2017, 36, 3298-3332.	1.3	72
52	Crustal structure of the northern Main Ethiopian Rift from receiver function studies. <i>Geological Society Special Publication</i> , 2006, 259, 253-267.	0.8	71
53	Mapping the evolving strain field during continental breakup from crustal anisotropy in the Afar Depression. <i>Nature Communications</i> , 2011, 2, 285.	5.8	63
54	Geophysical project in Ethiopia studies continental breakup. <i>Eos</i> , 2003, 84, 337.	0.1	60

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55	Variations in late syn-rift melt alignment inferred from shear-wave splitting in crustal earthquakes beneath the Ethiopian rift. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	58
56	The spatial and temporal evolution of strain during the separation of Australia and Antarctica. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 2771-2799.	1.0	55
57	Deformation distribution and type in the Main Ethiopian Rift (MER): A remote sensing study. <i>Journal of African Earth Sciences</i> , 2007, 48, 100-114.	0.9	53
58	Displaced cratonic mantle concentrates deep carbon during continental rifting. <i>Nature</i> , 2020, 582, 67-72.	13.7	50
59	Multiple episodes of rifting in Central and East Africa: A re-evaluation of gravity data. <i>Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie</i> , 1994, 83, 689.	1.3	49
60	Wavelet transform mapping of effective elastic thickness and plate loading: Validation using synthetic data and application to the study of southern African tectonics. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	49
61	Aeromagnetic and Landsat TM structural interpretation for identifying regional groundwater exploration targets, south-central Zimbabwe Craton. <i>Journal of Applied Geophysics</i> , 2008, 65, 73-83.	0.9	48
62	Depth Extent and Kinematics of Faulting in the Southern Tanganyika Rift, Africa. <i>Tectonics</i> , 2019, 38, 842-862.	1.3	48
63	Fault-magma interactions during early continental rifting: Seismicity of the <sc>M</sc>agadiâ€<sc>N</sc>atronâ€<sc>M</sc>anyara basins, <sc>A</sc>frica. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 3662-3686.	1.0	47
64	Deflection of mantle plume material by cratonic keels. <i>Geological Society Special Publication</i> , 2002, 199, 135-150.	0.8	46
65	The Afar volcanic province within the East African Rift System: introduction. <i>Geological Society Special Publication</i> , 2006, 259, 1-6.	0.8	44
66	Climatic control of the late Quaternary turbidite sedimentology of Lake Kivu, East Africa: Implications for deep mixing and geologic hazards. <i>Geology</i> , 2014, 42, 811-814.	2.0	44
67	The crustal structure of the north-eastern Gulf of Aden continental margin: insights from wide-angle seismic data. <i>Geophysical Journal International</i> , 2011, 184, 575-594.	1.0	42
68	The time scales of continental rifting: Implications for global processes. , 2013, , .		42
69	Surface wave imaging of the weakly extended Malawi Rift from ambient-noise and teleseismic Rayleigh waves from onshore and lake-bottom seismometers. <i>Geophysical Journal International</i> , 2017, 209, 1892-1905.	1.0	42
70	Kinematics of Active Deformation in the Malawi Rift and Rungwe Volcanic Province, Africa. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 3928-3951.	1.0	41
71	Volcanic Rifted Margins. , 2002, , .		41
72	Source mechanisms of dike-induced earthquakes in the Dabbahu-Manda Hararo rift segment in Afar, Ethiopia: implications for faulting above dikes. <i>Geophysical Journal International</i> , 2013, 192, 907-917.	1.0	40

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73	Subsurface images of the Eastern Rift, Africa, from the joint inversion of body waves, surface waves and gravity: investigating the role of fluids in early-stage continental rifting. <i>Geophysical Journal International</i> , 2017, 210, 931-950.	1.0	39
74	Incipient rifting accompanied by the release of subcontinental lithospheric mantle volatiles in the Magadi and Natron basin, East Africa. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 346, 118-133.	0.8	39
75	Late Oligocene volcanism and extension in the southern Red Sea Hills, Sudan. <i>Journal of the Geological Society</i> , 2001, 158, 285-294.	0.9	38
76	Crustal geometry of the northeastern Gulf of Aden passive margin: localization of the deformation inferred from receiver function analysis. <i>Geophysical Journal International</i> , 2007, 168, 1247-1260.	1.0	38
77	Crustal structure surrounding the northern Malawi rift and beneath the Rungwe Volcanic Province, East Africa. <i>Geophysical Journal International</i> , 2018, 215, 1410-1426.	1.0	34
78	Receiver function imaging of lithospheric structure and the onset of melting beneath the Galápagos Archipelago. <i>Earth and Planetary Science Letters</i> , 2014, 388, 156-165.	1.8	33
79	Seismicity During Continental Breakup in the Red Sea Rift of Northern Afar. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 2345-2362.	1.4	33
80	Temporal compositional variation of syn-rift rhyolites along the western margin of the southern Red Sea and northern Main Ethiopian Rift. <i>Geological Society Special Publication</i> , 2006, 259, 121-130.	0.8	32
81	Crustal Structure at a Young Continental Rift: A Receiver Function Study From the Tanganyika Rift. <i>Tectonics</i> , 2017, 36, 2806-2822.	1.3	31
82	Caldera resurgence during the 2018 eruption of Sierra Negra volcano, Galápagos Islands. <i>Nature Communications</i> , 2021, 12, 1397.	5.8	30
83	Controls on Rift Faulting in the North Basin of the Malawi (Nyasa) Rift, East Africa. <i>Tectonics</i> , 2020, 39, e2019TC005633.	1.3	29
84	Acquisition of a Unique Onshore/Offshore Geophysical and Geochemical Dataset in the Northern Malawi (Nyasa) Rift. <i>Seismological Research Letters</i> , 2016, 87, 1406-1416.	0.8	28
85	Lithospheric low-velocity zones associated with a magmatic segment of the Tanzanian Rift, East Africa. <i>Geophysical Journal International</i> , 2017, 210, 465-481.	1.0	28
86	Evidence of partial melting beneath a continental margin: case of Dhofar, in the Northeast Gulf of Aden (Sultanate of Oman). <i>Geophysical Journal International</i> , 2010, 180, 520-534.	1.0	27
87	New Opportunities to Study Earthquake Precursors. <i>Seismological Research Letters</i> , 2020, 91, 2444-2447.	0.8	27
88	Seismic Evidence for Plume- and Craton-Influenced Upper Mantle Structure Beneath the Northern Malawi Rift and the Rungwe Volcanic Province, East Africa. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 3980-3994.	1.0	26
89	Strike-slip tectonics during rift linkage. <i>Geology</i> , 2019, 47, 31-34.	2.0	26
90	Seismic Anisotropy of the Upper Mantle Below the Western Rift, East Africa. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 5644-5660.	1.4	25

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91	Accommodation of East African Rifting Across the Turkana Depression. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018469.	1.4	25
92	Wavelet and multitaper coherence methods for assessing the elastic thickness of the Irish Atlantic margin. <i>Geophysical Journal International</i> , 2004, 159, 445-459.	1.0	22
93	Basin formation by volcanic arc loading. , 2008, , 11-26.		22
94	Active passive margins. <i>Nature Geoscience</i> , 2010, 3, 670-671.	5.4	22
95	Insights Into Fault-Magma Interactions in an Early-Stage Continental Rift From Source Mechanisms and Correlated Volcano-Tectonic Earthquakes. <i>Geophysical Research Letters</i> , 2019, 46, 2065-2074.	1.5	22
96	Lithospheric modification by extension and magmatism at the craton-orogenic boundary: North Tanzania Divergence, East Africa. <i>Geophysical Journal International</i> , 2019, 216, 1693-1710.	1.0	20
97	Orogenic bending around a rigid Proterozoic magmatic rift beneath the Central Appalachian Mountains. <i>Earth and Planetary Science Letters</i> , 2014, 402, 197-208.	1.8	19
98	Evolution of the Kivu Rift, East Africa: interplay among tectonics, sedimentation and magmatism. <i>Basin Research</i> , 2017, 29, 175-188.	1.3	19
99	Thermochemical Modification of the Upper Mantle Beneath the Northern Malawi Rift Constrained From Shear Velocity Imaging. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008843.	1.0	19
100	Imaging rapidly deforming ocean island volcanoes in the western Galápagos archipelago, Ecuador. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 442-463.	1.4	17
101	The Impact of Complex Volcanic Plumbing on the Nature of Seismicity in the Developing Magmatic Natron Rift, Tanzania. <i>Frontiers in Earth Science</i> , 2021, 8, .	0.8	16
102	From rifting to oceanic spreading in the Gulf of Aden: A synthesis. <i>Frontiers in Earth Sciences</i> , 2013, , 385-427.	0.1	15
103	Body-Wave Tomographic Imaging of the Turkana Depression: Implications for Rift Development and Plume-Lithosphere Interactions. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009782.	1.0	14
104	Seismic stratigraphic correlation across the New England Seamounts, western North Atlantic Ocean. <i>Geology</i> , 1986, 14, 346.	2.0	13
105	Gravity anomaly patterns in the south-central Zimbabwe Archaean craton and their geological interpretation. <i>Journal of African Earth Sciences</i> , 2008, 51, 257-276.	0.9	13
106	Low-Frequency Hybrid Earthquakes near a Magma Chamber in Afar: Quantifying Path Effects. <i>Bulletin of the Seismological Society of America</i> , 2010, 100, 1892-1903.	1.1	13
107	Crustal failure on icy Moons from a strong tidal encounter. <i>Icarus</i> , 2016, 275, 267-280.	1.1	13
108	Palaeomagnetic constraints on continental break-up processes: observations from the Main Ethiopian Rift. <i>Geological Society Special Publication</i> , 2006, 259, 165-183.	0.8	12

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109	Seismicity of the central Afar rift and implications for Tendaho dam hazards. Geological Society Special Publication, 2016, 420, 341-354.	0.8	11
110	Seismicity patterns during a period of inflation at Sierra Negra volcano, Galpagos Ocean Island Chain. Earth and Planetary Science Letters, 2017, 462, 169-179.	1.8	10
111	Aseismic Deformation During the 2014 Mw 5.2 Karonga Earthquake, Malawi, From Satellite Interferometry and Earthquake Source Mechanisms. Geophysical Research Letters, 2020, 47, e2020GL090930.	1.5	10
112	Large-scale mass wasting in the western Indian Ocean constrains onset of East African rifting. Nature Communications, 2020, 11, 3456.	5.8	9
113	Rescuing Legacy Seismic Data FAIRly. Seismological Research Letters, 2020, 91, 1339-1340.	0.8	9
114	Evolution of the Cenozoic East African rift system. , 2012, , 132-162.		7
115	Upper mantle anisotropy of southeast Arabia passive margin [Gulf of Aden northern conjugate margin], Oman. Arabian Journal of Geosciences, 2012, 5, 925-934.	0.6	7
116	Aeromagnetic interpretation in the south-central Zimbabwe Craton: (reappraisal of) crustal structure and tectonic implications. International Journal of Earth Sciences, 2016, 105, 2175-2201.	0.9	7
117	Initial Cenozoic magmatic activity in East Africa: new geochemical constraints on magma distribution within the Eocene continental flood basalt province. Geological Society Special Publication, 2022, 518, 435-465.	0.8	7
118	Spectral analysis of dike-induced earthquakes in Afar, Ethiopia. Journal of Geophysical Research: Solid Earth, 2016, 121, 2560-2574.	1.4	6
119	Upper mantle anisotropy of Southeast Arabia passive margin [Gulf of Aden Northern conjugate margin], Oman. Frontiers in Earth Sciences, 2013, , 429-438.	0.1	5
120	Precursory Signal Detected for the 2018 Sierra Negra Volcanic Eruption, Galpagos, Using Seismic Ambient Noise. Journal of Geophysical Research: Solid Earth, 2022, 127, .	1.4	5
121	State of stress and stress rotations: Quantifying the role of surface topography and subsurface density contrasts in magmatic rift zones (Eastern Rift, Africa). Earth and Planetary Science Letters, 2022, 584, 117478.	1.8	5
122	Determination of the isostatic compensation mechanism of the region of the Adamawa dome, West Central Africa using the admittance technique of gravity data.. African Journal of Science and Technology, 2009, 1, .	0.2	2
123	Configuration of Late Archaean Chilimanzi and Razi Suites of Granites, South-Central Zimbabwe Craton, From Gravity Modelling: Geotectonic Implications. Pure and Applied Geophysics, 2020, 177, 1043-1069.	0.8	2
124	Recipe for Rifting: Flavors of East Africa. , 2021, , 271-283.		2
125	Rift-related volcanic hazards in Tanzania and their mitigation. Tectonophysics, 1992, 209, 277-279.	0.9	1
126	Roadmap to continental rupture: Is obliquity the route to success?. Geology, 2014, 42, 271-272.	2.0	1

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127	Active Volcanism and Continental Rifting in Africa (AVCOR): Introduction to the Special Issue. Journal of African Earth Sciences, 2010, 58, v-viii.	0.9	0
128	Basin Research outstanding reviewers 2018â€“19. Basin Research, 2020, 32, 1-2.	1.3	0
129	Laike Mariam Asfaw (1945â€“2020). Eos, 2020, 101, .	0.1	0