

C J Ebinger

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124
papers

8,764
citations

52
h-index

92
g-index

145
ext. papers

9,710
ext. citations

6.7
avg, IF

5.93
L-index

#	Paper	IF	Citations
124	Cenozoic magmatism throughout east Africa resulting from impact of a single plume. <i>Nature</i> , 1998 , 395, 788-791	50.4	610
123	Magma-maintained rift segmentation at continental rupture in the 2005 Afar dyking episode. <i>Nature</i> , 2006 , 442, 291-4	50.4	404
122	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	3.9	351
121	Variations in the along-axis segmentation of the Afar Rift system. <i>Tectonics</i> , 1996 , 15, 244-257	4.3	321
120	Evolution of the northern Main Ethiopian rift: birth of a triple junction. <i>Earth and Planetary Science Letters</i> , 2004 , 224, 213-228	5.3	301
119	Magma-assisted rifting in Ethiopia. <i>Nature</i> , 2005 , 433, 146-8	50.4	263
118	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		244
117	Late EoceneRecent volcanism and faulting in the southern main Ethiopian rift. <i>Journal of the Geological Society</i> , 1993 , 150, 99-108	2.7	216
116	A kinematic model for the East African Rift. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	199
115	Geophysical constraints on the dynamics of spreading centres from rifting episodes on land. <i>Nature Geoscience</i> , 2012 , 5, 242-250	18.3	181
114	Evolution of a volcanic rifted margin: Southern Red Sea, Ethiopia. <i>Bulletin of the Geological Society of America</i> , 2005 , 117, 846	3.9	175
113	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	3.9	168
112	Geometric and kinematic development of border faults and accommodation zones, Kivu-Rusizi Rift, Africa. <i>Tectonics</i> , 1989 , 8, 117-133	4.3	165
111	Chronology of volcanism and rift basin propagation: Rungwe Volcanic Province, East Africa. <i>Journal of Geophysical Research</i> , 1989 , 94, 15785-15803		158
110	Strain accommodation by slow slip and dyking in a youthful continental rift, East Africa. <i>Nature</i> , 2008 , 456, 783-7	50.4	156
109	Continental break-up: The East African perspective. <i>Astronomy and Geophysics</i> , 2005 , 46, 2.16-2.21	0.2	151
108	Upper-mantle seismic structure in a region of incipient continental breakup: northern Ethiopian rift. <i>Geophysical Journal International</i> , 2005 , 162, 479-493	2.6	150

107	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		145
106	Tectonic development of the northern Tairaiian sector of the East African Rift System. <i>Journal of the Geological Society</i> , 1997 , 154, 689-700	2.7	144
105	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	15.3	136
104	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	5	129
103	Massive and prolonged deep carbon emissions associated with continental rifting. <i>Nature Geoscience</i> , 2016 , 9, 145-149	18.3	126
102	Fault growth at a nascent slow-spreading ridge: 2005 Dabbahu rifting episode, Afar. <i>Geophysical Journal International</i> , 2007 , 171, 1226-1246	2.6	124
101	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	3.6	114
100	Rifting Archaean lithosphere: the Eyasi-Manyara-Natron rifts, East Africa. <i>Journal of the Geological Society</i> , 1997 , 154, 947-960	2.7	104
99	Capturing magma intrusion and faulting processes during continental rupture: seismicity of the Dabbahu (Afar) rift. <i>Geophysical Journal International</i> , 2008 , 174, 1138-1152	2.6	102
98	Shallow axial magma chamber at the slow-spreading Erta Ale Ridge. <i>Nature Geoscience</i> , 2012 , 5, 284-288	18.3	99
97	Soft plates and hot spots: Views from Afar. <i>Journal of Geophysical Research</i> , 1996 , 101, 21859-21876		98
96	From rifting to oceanic spreading in the Gulf of Aden: a synthesis. <i>Arabian Journal of Geosciences</i> , 2012 , 5, 859-901	1.8	96
95	Mechanical strength of extended continental lithosphere: Constraints from the Western Rift System, East Africa. <i>Tectonics</i> , 1991 , 10, 1239-1256	4.3	96
94	Multiple inflation and deflation events at Kenyan volcanoes, East African Rift. <i>Geology</i> , 2009 , 37, 979-983		93
93	Comparison of dike intrusions in an incipient seafloor-spreading segment in Afar, Ethiopia: Seismicity perspectives. <i>Journal of Geophysical Research</i> , 2011 , 116,		90
92	Tectonic controls on rift basin morphology: Evolution of the northern Malawi (Nyasa) Rift. <i>Journal of Geophysical Research</i> , 1993 , 98, 17821-17836		88
91	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		87
90	Geodetic observations of the ongoing Dabbahu rifting episode: new dyke intrusions in 2006 and 2007. <i>Geophysical Journal International</i> , 2009 , 178, 989-1003	2.6	86

89	September 2005 mega-dike emplacement in the Manda-Harraro nascent oceanic rift (Afar depression). <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	85
88	Structural evolution of Lake Malaġ Africa. <i>Nature</i> , 1984 , 308, 627-629	50.4	84
87	Kinematics of the Danakil microplate. <i>Earth and Planetary Science Letters</i> , 2002 , 203, 607-620	5.3	83
86	Volcanism in the Afar Rift sustained by decompression melting with minimal plume influence. <i>Nature Geoscience</i> , 2012 , 5, 406-409	18.3	81
85	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	2.6	80
84	Extensional basin geometry and the elastic lithosphere. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 1999 , 357, 741-765	3	79
83	Kinematics of the East African Rift from GPS and earthquake slip vector data. <i>Geological Society Special Publication</i> , 2006 , 259, 9-22	1.7	72
82	Crustal tomographic imaging of a transitional continental rift: the Ethiopian rift. <i>Geophysical Journal International</i> , 2008 , 172, 1033-1048	2.6	70
81	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, n/a-n/a	3.6	67
80	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		66
79	Characteristics of volcanic rifted margins 2002 ,		65
78	Mantle upwelling and initiation of rift segmentation beneath the Afar Depression. <i>Geology</i> , 2013 , 41, 635-638	5	63
77	Formation and stability of magmatic segments in the Main Ethiopian and Afar rifts. <i>Earth and Planetary Science Letters</i> , 2010 , 293, 225-235	5.3	62
76	Along-axis segmentation and isostasy in the Western rift, East Africa. <i>Journal of Geophysical Research</i> , 1996 , 101, 3247-3268		62
75	Crustal Structure of Active Deformation Zones in Africa: Implications for Global Crustal Processes. <i>Tectonics</i> , 2017 , 36, 3298-3332	4.3	55
74	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	1.7	55
73	Mapping the evolving strain field during continental breakup from crustal anisotropy in the Afar Depression. <i>Nature Communications</i> , 2011 , 2, 285	17.4	54
72	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,	4.9	50

71	Crustal structure of the northern Main Ethiopian Rift from receiver function studies. <i>Geological Society Special Publication</i> , 2006 , 259, 253-267	1.7	47
70	Geophysical project in Ethiopia studies continental breakup. <i>Eos</i> , 2003 , 84, 337	1.5	47
69	The spatial and temporal evolution of strain during the separation of Australia and Antarctica. <i>Geochemistry, Geophysics, Geosystems</i> , 2013 , 14, 2771-2799	3.6	45
68	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	2.2	43
67	Deflection of mantle plume material by cratonic keels. <i>Geological Society Special Publication</i> , 2002 , 199, 135-150	1.7	39
66	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		39
65	The Afar volcanic province within the East African Rift System: introduction. <i>Geological Society Special Publication</i> , 2006 , 259, 1-6	1.7	38
64	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,		38
63	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	2.6	35
62	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	2.6	34
61	Late Oligocene volcanism and extension in the southern Red Sea Hills, Sudan. <i>Journal of the Geological Society</i> , 2001 , 158, 285-294	2.7	34
60	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	5	33
59	The time scales of continental rifting: Implications for global processes 2013 ,		33
58	Depth Extent and Kinematics of Faulting in the Southern Tanganyika Rift, Africa. <i>Tectonics</i> , 2019 , 38, 842-862	4.3	33
57	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	1.7	32
56	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	5.3	31
55	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	2.6	31
54	Fault-magma interactions during early continental rifting: Seismicity of the Magadi-Natron-Manyara basins, Africa. <i>Geochemistry, Geophysics, Geosystems</i> , 2017 , 18, 3662-3686	3.6	30

53	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 ^{2,8}	29
52	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	2.6 29
51	Volcanic Rifted Margins 2002 ,	28
50	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	2.6 27
49	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	1.7 26
48	Lithospheric low-velocity zones associated with a magmatic segment of the Tanzanian Rift, East Africa. <i>Geophysical Journal International</i> , 2017 , 210, 465-481	2.6 25
47	Displaced cratonic mantle concentrates deep carbon during continental rifting. <i>Nature</i> , 2020 , 582, 67-72 ^{50.4}	23
46	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	2.6 23
45	Seismicity During Continental Breakup in the Red Sea Rift of Northern Afar. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 2345-2362	3.6 22
44	Kinematics of Active Deformation in the Malawi Rift and Rungwe Volcanic Province, Africa. <i>Geochemistry, Geophysics, Geosystems</i> , 2019 , 20, 3928-3951	3.6 21
43	Crustal Structure at a Young Continental Rift: A Receiver Function Study From the Tanganyika Rift. <i>Tectonics</i> , 2017 , 36, 2806-2822	4.3 21
42	Wavelet and multitaper coherence methods for assessing the elastic thickness of the Irish Atlantic margin. <i>Geophysical Journal International</i> , 2004 , 159, 445-459	2.6 21
41	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	3 21
40	Crustal structure surrounding the northern Malawi rift and beneath the Rungwe Volcanic Province, East Africa. <i>Geophysical Journal International</i> , 2018 , 215, 1410-1426	2.6 20
39	Continental Rift Basins: The East African Perspective 2012 , 183-208	20
38	Seismic Anisotropy of the Upper Mantle Below the Western Rift, East Africa. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 5644-5660	3.6 19
37	Strike-slip tectonics during rift linkage. <i>Geology</i> , 2019 , 47, 31-34	5 18
36	Basin formation by volcanic arc loading 2008 , 11-26	16

35	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	4.9	16
34	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	3.6	16
33	Evolution of the Kivu Rift, East Africa: interplay among tectonics, sedimentation and magmatism. <i>Basin Research</i> , 2017 , 29, 175-188	3.2	15
32	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	2.6	15
31	Imaging rapidly deforming ocean island volcanoes in the western Galápagos archipelago, Ecuador. <i>Journal of Geophysical Research: Solid Earth</i> , 2014 , 119, 442-463	3.6	14
30	Orogenic bending around a rigid Proterozoic magmatic rift beneath the Central Appalachian Mountains. <i>Earth and Planetary Science Letters</i> , 2014 , 402, 197-208	5.3	14
29	Accommodation of East African Rifting Across the Turkana Depression. <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125, e2019JB018469	3.6	12
28	Controls on Rift Faulting in the North Basin of the Malawi (Nyasa) Rift, East Africa. <i>Tectonics</i> , 2020 , 39, e2019TC005633	4.3	12
27	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	2.2	11
26	From rifting to oceanic spreading in the Gulf of Aden: A synthesis. <i>Frontiers in Earth Sciences</i> , 2013 , 385-423	4.2	11
25	Crustal failure on icy Moons from a strong tidal encounter. <i>Icarus</i> , 2016 , 275, 267-280	3.8	11
24	Thermochemical Modification of the Upper Mantle Beneath the Northern Malawi Rift Constrained From Shear Velocity Imaging. <i>Geochemistry, Geophysics, Geosystems</i> , 2020 , 21, e2019GC008843	3.6	10
23	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	2.3	10
22	Seismic stratigraphic correlation across the New England Seamounts, western North Atlantic Ocean. <i>Geology</i> , 1986 , 14, 346	5	10
21	New Opportunities to Study Earthquake Precursors. <i>Seismological Research Letters</i> , 2020 , 91, 2444-2447	3	9
20	Seismicity of the central Afar rift and implications for Tendaho dam hazards. <i>Geological Society Special Publication</i> , 2016 , 420, 341-354	1.7	9
19	Caldera resurgence during the 2018 eruption of Sierra Negra volcano, Galápagos Islands. <i>Nature Communications</i> , 2021 , 12, 1397	17.4	9
18	Seismicity patterns during a period of inflation at Sierra Negra volcano, Galápagos Ocean Island Chain. <i>Earth and Planetary Science Letters</i> , 2017 , 462, 169-179	5.3	8

17	Palaeomagnetic constraints on continental break-up processes: observations from the Main Ethiopian Rift. <i>Geological Society Special Publication</i> , 2006 , 259, 165-183	1.7	8
16	Aeromagnetic interpretation in the south-central Zimbabwe Craton: (reappraisal of) crustal structure and tectonic implications. <i>International Journal of Earth Sciences</i> , 2016 , 105, 2175-2201	2.2	6
15	Spectral analysis of dike-induced earthquakes in Afar, Ethiopia. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 2560-2574	3.6	6
14	Rescuing Legacy Seismic Data FAIRly. <i>Seismological Research Letters</i> , 2020 , 91, 1339-1340	3	5
13	Upper mantle anisotropy of southeast Arabia passive margin [Gulf of Aden northern conjugate margin], Oman. <i>Arabian Journal of Geosciences</i> , 2012 , 5, 925-934	1.8	5
12	Large-scale mass wasting in the western Indian Ocean constrains onset of East African rifting. <i>Nature Communications</i> , 2020 , 11, 3456	17.4	5
11	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,	3.5	5
10	Evolution of the Cenozoic East African rift system: Cratons, plumes, and continental breakup 2012 , 132-162		4
9	Aseismic Deformation During the 2014 Mw 5.2 Karonga Earthquake, Malawi, From Satellite Interferometry and Earthquake Source Mechanisms. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL090930	4.9	3
8	Body-Wave Tomographic Imaging of the Turkana Depression: Implications for Rift Development and Plume-Lithosphere Interactions. <i>Geochemistry, Geophysics, Geosystems</i> , 2021 , 22, e2021GC009782	3.6	3
7	Recipe for Rifting: Flavors of East Africa 2021 , 271-283		2
6	Roadmap to continental rupture: Is obliquity the route to success?. <i>Geology</i> , 2014 , 42, 271-272	5	1
5	Rift-related volcanic hazards in Tanzania and their mitigation. <i>Tectonophysics</i> , 1992 , 209, 277-279	3.1	1
4	Configuration of Late Archaean Chilimanzi and Razi Suites of Granites, South-Central Zimbabwe Craton, From Gravity Modelling: Geotectonic Implications. <i>Pure and Applied Geophysics</i> , 2020 , 177, 1043-1069	2.2	1
3	Initial Cenozoic Magmatic Activity in East Africa: New Geochemical Constraints on Magma Distribution within the Eocene Continental Flood Basalt Province. <i>Geological Society Special Publication</i> , SP518-2020-262	1.7	1
2	State of stress and stress rotations: Quantifying the role of surface topography and subsurface density contrasts in magmatic rift zones (Eastern Rift, Africa). <i>Earth and Planetary Science Letters</i> , 2022 , 584, 117478	5.3	1
1	Upper mantle anisotropy of Southeast Arabia passive margin [Gulf of Aden Northern conjugate margin], Oman. <i>Frontiers in Earth Sciences</i> , 2013 , 429-438	1.6	