

Eric C FerrÃ©

List of Publications by Year in descending order

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69
papers

2,718
citations

159358

30
h-index

189595

50
g-index

76
all docs

76
docs citations

76
times ranked

2645
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid transition from continental breakup to igneous oceanic crust in the South China Sea. <i>Nature Geoscience</i> , 2018, 11, 782-789.	5.4	183
2	Obliquely convergent tectonics and granite emplacement in the Trans-Saharan belt of Eastern Nigeria: a synthesis. <i>Precambrian Research</i> , 2002, 114, 199-219.	1.2	155
3	Subduction initiation and ophiolite crust: new insights from IODP drilling. <i>International Geology Review</i> , 2017, 59, 1439-1450.	1.1	145
4	Pan-African, post-collisional, ferro-potassic granite and quartzâ€“monzonite plutons of Eastern Nigeria. <i>Lithos</i> , 1998, 45, 255-279.	0.6	120
5	Chemical and isotopic fractionation of wet andesite in a temperature gradient: Experiments and models suggesting a new mechanism of magma differentiation. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 729-749.	1.6	117
6	Theoretical models of intermediate and inverse AMS fabrics. <i>Geophysical Research Letters</i> , 2002, 29, 31-1.	1.5	104
7	Flow of partially molten crust and the internal dynamics of a migmatite dome, Naxos, Greece. <i>Tectonics</i> , 2011, 30, .	1.3	104
8	The Pan-African reactivation of Eburnean and Archaean provinces in Nigeria: structural and isotopic data. <i>Journal of the Geological Society</i> , 1996, 153, 719-728.	0.9	91
9	Migration and accumulation of ultra-depleted subduction-related melts in the Massif du Sud ophiolite (New Caledonia). <i>Chemical Geology</i> , 2009, 266, 171-186.	1.4	90
10	Eight good reasons why the uppermost mantle could be magnetic. <i>Tectonophysics</i> , 2014, 624-625, 3-14.	0.9	72
11	Separation of paramagnetic and ferrimagnetic anisotropies: A review. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	71
12	Geodynamic significance of early orogenic high-K crustal and mantle melts: example of the Corsica Batholith. <i>Lithos</i> , 2001, 59, 47-67.	0.6	68
13	Magma flow inferred from AMS fabrics in a layered mafic sill, Insizwa, South Africa. <i>Tectonophysics</i> , 2002, 354, 1-23.	0.9	66
14	Paramagnetic and ferromagnetic anisotropy of magnetic susceptibility in migmatites: measurements in high and low fields and kinematic implications. <i>Geophysical Journal International</i> , 2004, 157, 1119-1129.	1.0	59
15	How are saucerâ€“shaped sills emplaced? Constraints from the Golden Valley Sill, South Africa. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	58
16	Deformation and magnetic fabrics in ductile shear zones: A review. <i>Tectonophysics</i> , 2014, 629, 179-188.	0.9	58
17	Flow of partially molten crust and origin of detachments during collapse of the Cordilleran Orogen. <i>Geological Society Special Publication</i> , 2005, 245, 39-64.	0.8	56
18	The magnetism of mantle xenoliths and potential implications for subâ€“Moho magnetic sources. <i>Geophysical Research Letters</i> , 2013, 40, 105-110.	1.5	56

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19	Granite magma migration and emplacement along thrusts. <i>International Journal of Earth Sciences</i> , 2012, 101, 1673-1688.	0.9	51
20	The magnetic susceptibility of granitic rocks as a proxy for geochemical composition: Example from the Saruhan granitoids, NE Turkey. <i>Tectonophysics</i> , 2007, 441, 85-95.	0.9	49
21	Internal fabric and strike-slip emplacement of the Pan-African granite of Solli Hills, northern Nigeria. <i>Tectonics</i> , 1995, 14, 1205-1219.	1.3	48
22	The origin of high magnetic remanence in fault pseudotachylites: Theoretical considerations and implication for coseismic electrical currents. <i>Tectonophysics</i> , 2005, 402, 125-139.	0.9	46
23	The magnetic properties of natural and synthetic (Fe, Mg)2 SiO4 olivines. <i>Earth and Planetary Science Letters</i> , 2009, 284, 516-526.	1.8	41
24	Magnetic susceptibility and AMS of the Bushveld alkaline granites, South Africa. <i>Tectonophysics</i> , 1999, 307, 113-133.	0.9	40
25	Magnetic susceptibility anisotropy: A new petrofabric tool in migmatites. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	40
26	Viscoplastic flow in migmatites deduced from fabric anisotropy: An example from the Naxos dome, Greece. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	39
27	Oblique magmatic structures of two epizonal granite plutons, Hoggar, Algeria: late-orogenic emplacement in a transcurrent orogen. <i>Tectonophysics</i> , 1997, 279, 351-374.	0.9	38
28	Comparison of Fry strain ellipse and AMS ellipsoid trends to tectonic fabric trends in very low-strain sandstone of the Appalachian fold-thrust belt. <i>Journal of Structural Geology</i> , 2009, 31, 1028-1038.	1.0	38
29	The effect of oxidation on the mineralogy and magnetic properties of olivine. <i>American Mineralogist</i> , 2019, 104, 694-702.	0.9	32
30	Preserved magnetic fabrics vs. annealed microstructures in the syntectonic recrystallised George granite, South Africa. <i>Journal of Structural Geology</i> , 2000, 22, 1199-1219.	1.0	30
31	Gabbroic Shergottite Northwest Africa 6963: An intrusive sample of Mars. <i>American Mineralogist</i> , 2014, 99, 601-606.	0.9	29
32	Orogen-parallel deformation of the Himalayan midcrust: Insights from structural and magnetic fabric analyses of the Greater Himalayan Sequence, Annapurna-Dhaulagiri Himalaya, central Nepal. <i>Tectonics</i> , 2016, 35, 2515-2537.	1.3	28
33	Fabric development in the mantle section of a paleotransform fault and its effect on ophiolite obduction, New Caledonia. <i>Lithosphere</i> , 2011, 3, 221-244.	0.6	26
34	Repeated tabular injection of high-level alkaline granites in the eastern Bushveld, South Africa. <i>Journal of the Geological Society</i> , 2000, 157, 1077-1088.	0.9	25
35	The magnetic anisotropy of mantle peridotites: Example from the Twin Sisters dunite, Washington. <i>Tectonophysics</i> , 2005, 398, 141-166.	0.9	25
36	The Sonju Lake layered intrusion, northeast Minnesota: Internal structure and emplacement history inferred from magnetic fabrics. <i>Precambrian Research</i> , 2007, 157, 269-288.	1.2	23

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37	Slow and fast deformation in the Dora Maira Massif, Italian Alps: Pseudotachylytes and inferences on exhumation history. <i>Journal of Structural Geology</i> , 2007, 29, 1114-1130.	1.0	23
38	Magnetic properties of fault pseudotachylytes in granites. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	23
39	Internal structure of basalt flows: insights from magnetic and crystallographic fabrics of the La Palisse volcanics, French Massif Central. <i>Geophysical Journal International</i> , 2013, 193, 585-602.	1.0	21
40	Shergottite Northwest Africa 6963: A Pyroxeneâ€Cumulate Martian Gabbro. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 1823-1841.	1.5	20
41	Granulite facies metamorphism and charnockite plutonism: examples from the Neoproterozoic Belt of northern Nigeria. <i>Proceedings of the Geologists Association</i> , 2007, 118, 47-54.	0.6	19
42	Rock magnetic stratigraphy of a mafic layered sill: A key to the Karoo volcanics plumbing system. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 172, 75-92.	0.8	19
43	The magnetic stratification of layered mafic intrusions: Natural examples and numerical models. <i>Lithos</i> , 2009, 111, 83-94.	0.6	18
44	Focal mechanism of prehistoric earthquakes deduced from pseudotachylyte fabric. <i>Geology</i> , 2015, 43, 531-534.	2.0	16
45	Faulting Processes Unveiled by Magnetic Properties of Fault Rocks. <i>Reviews of Geophysics</i> , 2020, 58, e2019RG000690.	9.0	16
46	Deciphering viscous flow of frictional melts with the mini-AMS method. <i>Journal of Structural Geology</i> , 2016, 90, 15-26.	1.0	15
47	Physical properties and seismic structure of <sc>lzu</sc>â€<sc>B</sc>oninâ€<sc>M</sc>ariana foreâ€arc crust: Results from IODP <sc>E</sc>xpedition 352 and comparison with oceanic crust. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 4973-4991.	1.0	15
48	Havre 2012 pink pumice is evidence of a short-lived, deep-sea, magnetite nanolite-driven explosive eruption. <i>Communications Earth & Environment</i> , 2022, 3, .	2.6	15
49	Magnetic sources in the Earthâ€™s mantle. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 59-69.	12.2	13
50	Magnetic fabric and microstructure of a mylonite: example from the Bitterroot shear zone, western Montana. <i>Geological Society Special Publication</i> , 2005, 245, 143-163.	0.8	12
51	Coseismic magnetization of fault pseudotachylytes: 1. Thermal demagnetization experiments. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 6113-6135.	1.4	11
52	The Significance of Magnetic Fabric in Layered Mafic-Ultramafic Intrusions. <i>Springer Geology</i> , 2015, , 295-329.	0.2	11
53	The potential contribution to long wavelength magnetic anomalies from the lithospheric mantle. <i>Physics of the Earth and Planetary Interiors</i> , 2019, 292, 21-28.	0.7	11
54	Brushlines in fault pseudotachylytes: A new criterion for coseismic slip direction. <i>Geology</i> , 2016, 44, 395-398.	2.0	10

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55	Earthquakes in the Mantle? Insights From Rock Magnetism of Pseudotachylytes. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 8769-8785.	1.4	10
56	Vertical zonation of the Barcroft granodiorite, White Mountains, California: Implications for magmatic processes. <i>American Mineralogist</i> , 2012, 97, 1049-1059.	0.9	9
57	Remanent magnetization in fresh xenoliths derived from combined demagnetization experiments: Magnetic mineralogy, origin and implications for mantle sources of magnetic anomalies. <i>Tectonophysics</i> , 2014, 624-625, 24-31.	0.9	8
58	Seismic anisotropy of the Archean crust in the Minnesota River Valley, Superior Province. <i>Geophysical Research Letters</i> , 2014, 41, 1514-1522.	1.5	7
59	Ferromagnetic resonance of superparamagnetic nanoparticles: The effect of dipole-dipole interactions. <i>Journal of Applied Physics</i> , 2021, 130, .	1.1	7
60	Characteristics of the amphibolites from Nigde metamorphics (Central Turkey), deduced from whole rock and mineral chemistry. <i>Geochemical Journal</i> , 2007, 41, 241-257.	0.5	6
61	Importance of Hematite Self-Reversal in Al-Rich Soils Magnetostratigraphy: Revisiting the Damei Red Soil Sequence in the Bose Basin, Southern China. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	1.4	5
62	Post-Depositional Fluid Flow in Jurassic Sandstones of the Uncompahgre Uplift: Insights From Magnetic Fabrics. <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	4
63	Focal Mechanisms of Intraslab Earthquakes: Insights From Pseudotachylytes in Mantle Units. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021479.	1.4	3
64	Deformation coupling between the Archean Pukaskwa intrusive complex and the Hemlo shear zone, Superior Province, Canada. <i>Tectonophysics</i> , 2013, 608, 1226-1237.	0.9	2
65	Magmatic accretion and thermal convection at the sheeted dike complex-gabbro boundary in superfast spreading crust, ODP Hole 1256D. <i>Tectonophysics</i> , 2015, 660, 107-116.	0.9	2
66	Kinematics of frictional melts at the base of the world's largest terrestrial landslide: Markagunt gravity slide, southwest Utah, United States. <i>Journal of Structural Geology</i> , 2021, 153, 104448.	1.0	2
67	Inverse Magnetic Fabrics Caused by Magnetofossils in the Northwestern South China Sea Since End of the Last Glacial. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	2
68	The magnetism of mantle xenoliths and potential implications for sub-Moho magnetic sources. <i>Geophysical Research Letters</i> , 2013, , n/a-n/a.	1.5	1
69	Reply to comments by G. Kletetschka on "The origin of high magnetic remanence in fault pseudotachylites: Theoretical considerations and implication for coseismic electrical currents". <i>Tectonophysics</i> , 2006, 419, 101-102.	0.9	0