

David M Buchs

List of Publications by Year in descending order

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32
papers

807
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516710

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35
times ranked

1012
citing authors

#	ARTICLE	IF	CITATIONS
1	Late Cretaceous arc development on the SW margin of the Caribbean Plate: Insights from the Golfito, Costa Rica, and Azuero, Panama, complexes. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	2.5	105
2	Limited latitudinal mantle plume motion for the Louisville hotspot. <i>Nature Geoscience</i> , 2012, 5, 911-917.	12.9	85
3	Present-day principal horizontal stress orientations in the Kumano forearc basin of the southwest Japan subduction zone determined from IODP NanTroSEIZE drilling Site C0009. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	76
4	Oceanic intraplate volcanoes exposed: Example from seamounts accreted in Panama. <i>Geology</i> , 2011, 39, 335-338.	4.4	67
5	Climatic and edaphic controls over tropical forest diversity and vegetation carbon storage. <i>Scientific Reports</i> , 2020, 10, 5066.	3.3	55
6	Paleozoic to Triassic ocean opening and closure preserved in Central Iran: Constraints from the geochemistry of meta-igneous rocks of the Anarak area. <i>Lithos</i> , 2013, 172-173, 267-287.	1.4	49
7	Late Cretaceous to Miocene seamount accretion and mélange formation in the Osa and Burica Peninsulas (Southern Costa Rica): episodic growth of a convergent margin. <i>Geological Society Special Publication</i> , 2009, 328, 411-456.	1.3	42
8	Pre-subduction metasomatic enrichment of the oceanic lithosphere induced by plate flexure. <i>Nature Geoscience</i> , 2016, 9, 898-903.	12.9	39
9	Upper Cretaceous to Miocene tectonostratigraphy of the Azuero area (Panama) and the discontinuous accretion and subduction erosion along the Middle American margin. <i>Tectonophysics</i> , 2011, 512, 31-46.	2.2	37
10	Evidence for subaerial development of the Caribbean oceanic plateau in the Late Cretaceous and palaeo-environmental implications. <i>Earth and Planetary Science Letters</i> , 2018, 499, 62-73.	4.4	31
11	Low-volume intraplate volcanism in the Early/Middle Jurassic Pacific basin documented by accreted sequences in Costa Rica. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 1552-1568.	2.5	29
12	Sediment flow routing during formation of forearc basins: Constraints from integrated analysis of detrital pyroxenes and stratigraphy in the Kumano Basin, Japan. <i>Earth and Planetary Science Letters</i> , 2015, 414, 164-175.	4.4	23
13	Evidence from accreted seamounts for a depleted component in the early Galapagos plume. <i>Geology</i> , 2016, 44, 383-386.	4.4	23
14	Volcanic contribution to emergence of Central Panama in the Early Miocene. <i>Scientific Reports</i> , 2019, 9, 1417.	3.3	19
15	Geochemistry of volcanic glasses from the Louisville Seamount Trail (IODP Expedition 330): Implications for eruption environments and mantle melting. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 1718-1738.	2.5	18
16	Non-Hawaiian lithostratigraphy of Louisville seamounts and the formation of high-latitude oceanic islands and guyots. <i>Journal of Volcanology and Geothermal Research</i> , 2018, 356, 1-23.	2.1	18
17	Quantification of free gas in the Kumano fore-arc basin detected from borehole physical properties: IODP NanTroSEIZE drilling Site C0009. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	17
18	The connection between iron ore formations and "mud-shrimp" colonizations around sunken wood debris and hydrothermal sediments in a Lower Cretaceous continental rift basin, Mecsek Mts., Hungary. <i>Earth-Science Reviews</i> , 2012, 114, 250-278.	9.1	12

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19	Comment on "From seamount accretion to tectonic erosion: Formation of Osa Mlange and the effects of Cocos Ridge subduction in southern Costa Rica" by P. Vannucchi et al.. <i>Tectonics</i> , 2007, 26, n/a-n/a.	2.8	11
20	Paleocene Thalassinidea colonization in deep-sea environment and the coprolite <i>Palaxius osaensis</i> n. ichnosp. in Southern Costa Rica. <i>Revue De Micropaleontologie</i> , 2009, 52, 123-129.	0.4	10
21	Interaction between felsic and mafic magmas in the Salmas intrusive complex, Northwestern Iran: Constraints from petrography and geochemistry. <i>Journal of Asian Earth Sciences</i> , 2015, 111, 440-458.	2.3	7
22	Sedimentary and structural evolution of the Eastern South Korea Plateau (ESKP), East Sea (Japan Sea). <i>Marine and Petroleum Geology</i> , 2017, 85, 70-88.	3.3	7
23	Virtual field trip to the Esla Nappe (Cantabrian Zone, NW Spain): delivering traditional geological mapping skills remotely using real data. <i>Solid Earth</i> , 2022, 13, 1-14.	2.8	7
24	Mineralogical characterization of rejuvenated magmatism at Burton Guyot, Louisville Seamount trail. <i>Contributions To Mineralogy and Petrology</i> , 2019, 174, 1.	3.1	5
25	Volcanic shutdown of the Panama Canal area following breakup of the Farallon plate. <i>Lithos</i> , 2019, 334-335, 190-204.	1.4	4
26	Long-term non-erosive nature of the south Costa Rican margin supported by arc-derived sediments accreted in the Osa Mlange. <i>Earth and Planetary Science Letters</i> , 2020, 531, 115968.	4.4	3
27	Seamounts. , 2015, , 1-11.		3
28	Seamounts. , 2015, , 1-11.		2
29	Clinopyroxene diversity and magma plumbing system processes in an accreted Pacific ocean island, Panama. <i>Contributions To Mineralogy and Petrology</i> , 2022, 177, 1.	3.1	2
30	Seamounts. <i>Encyclopedia of Earth Sciences Series</i> , 2016, , 754-760.	0.1	1
31	LATE EOCENE BIOSTRATIGRAPHIC AGE FOR ANDESITIC VOLCANIC HOST ROCKS FORMED IN AN ISLAND ENVIRONMENT AT THE COBRE PANAMA PORPHYRY Cu-Mo-Au-Ag DEPOSIT, PANAMA. <i>Economic Geology</i> , 2021, 116, 199-209.	3.8	0
32	Submarine volcanic activity and giant amygdale formation along the Panama island arc as a precursor to 6000-year-old agate exploitation on Pedro González Island. <i>Geological Magazine</i> , 2022, 159, 673-688.	1.5	0