

Hubert Staudigel

List of Publications by Year in descending order

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91
papers

9,290
citations

34105

52
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49909

87
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92
all docs

92
docs citations

92
times ranked

6037
citing authors

#	ARTICLE	IF	CITATIONS
1	Isotope and trace element geochemistry of young Pacific seamounts: implications for the scale of upper mantle heterogeneity. <i>Earth and Planetary Science Letters</i> , 1984, 70, 175-195.	4.4	446
2	Alteration of basaltic glass: Mechanisms and significance for the oceanic crust-seawater budget. <i>Geochimica Et Cosmochimica Acta</i> , 1983, 47, 337-350.	3.9	429
3	Composition of altered oceanic crust at ODP Sites 801 and 1149. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, n/a-n/a.	2.5	422
4	Early Life Recorded in Archean Pillow Lavas. <i>Science</i> , 2004, 304, 578-581.	12.6	342
5	Abundance and diversity of microbial life in ocean crust. <i>Nature</i> , 2008, 453, 653-656.	27.8	339
6	Large scale isotopic Sr, Nd and O isotopic anatomy of altered oceanic crust: DSDP/ODP sites 417/418. <i>Earth and Planetary Science Letters</i> , 1995, 130, 169-185.	4.4	324
7	The return of subducted continental crust in Samoan lavas. <i>Nature</i> , 2007, 448, 684-687.	27.8	280
8	Strength of the geomagnetic field in the Cretaceous Normal Superchron: New data from submarine basaltic glass of the Troodos Ophiolite. <i>Geochemistry, Geophysics, Geosystems</i> , 2004, 5, n/a-n/a.	2.5	271
9	The Pliocene seamount series of La Palma/Canary Islands. <i>Journal of Geophysical Research</i> , 1984, 89, 11195-11215.	3.3	261
10	A Vestige of Earth's Oldest Ophiolite. <i>Science</i> , 2007, 315, 1704-1707.	12.6	246
11	The control of alkalis and uranium in seawater by ocean crust alteration. <i>Earth and Planetary Science Letters</i> , 1982, 58, 202-212.	4.4	222
12	Testing the fixed hotspot hypothesis using $^{40}\text{Ar}/^{39}\text{Ar}$ age progressions along seamount trails. <i>Earth and Planetary Science Letters</i> , 2001, 185, 237-252.	4.4	218
13	Cretaceous ocean crust at DSDP Sites 417 and 418: Carbon uptake from weathering versus loss by magmatic outgassing. <i>Geochimica Et Cosmochimica Acta</i> , 1989, 53, 3091-3094.	3.9	199
14	Diverse Mn(II)-Oxidizing Bacteria Isolated from Submarine Basalts at Loihi Seamount. <i>Geomicrobiology Journal</i> , 2005, 22, 127-139.	2.0	195
15	Short-lived and discontinuous intraplate volcanism in the South Pacific: Hot spots or extensional volcanism?. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	2.5	194
16	Alteration of the oceanic crust: Processes and timing. <i>Earth and Planetary Science Letters</i> , 1981, 52, 311-327.	4.4	183
17	The boron isotopic composition of altered oceanic crust. <i>Chemical Geology</i> , 1995, 126, 119-135.	3.3	183
18	The longevity of the South Pacific isotopic and thermal anomaly. <i>Earth and Planetary Science Letters</i> , 1991, 102, 24-44.	4.4	173

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19	3.5-billion years of glass bioalteration: Volcanic rocks as a basis for microbial life?. <i>Earth-Science Reviews</i> , 2008, 89, 156-176.	9.1	171
20	Sr and Nd isotope systematics in fish teeth. <i>Earth and Planetary Science Letters</i> , 1985, 76, 45-56.	4.4	166
21	Subduction cycling of U, Th, and Pb. <i>Earth and Planetary Science Letters</i> , 2005, 234, 369-383.	4.4	161
22	Biological mediation in ocean crust alteration: how deep is the deep biosphere?. <i>Earth and Planetary Science Letters</i> , 1999, 166, 97-103.	4.4	155
23	Geochemical Fluxes During Seafloor Alteration of the Basaltic Upper Oceanic Crust: DSDP Sites 417 and 418. <i>Geophysical Monograph Series</i> , 0, , 19-38.	0.1	155
24	He, Pb, Sr and Nd isotope constraints on magma genesis and mantle heterogeneity beneath young Pacific seamounts. <i>Contributions To Mineralogy and Petrology</i> , 1988, 99, 446-463.	3.1	134
25	Dating crystalline groundmass separates of altered Cretaceous seamount basalts by the $^{40}\text{Ar}/^{39}\text{Ar}$ incremental heating technique. <i>Chemical Geology</i> , 2000, 166, 139-158.	3.3	128
26	Os isotope systematics of La Palma, Canary Islands: Evidence for recycled crust in the mantle source of HIMU ocean islands. <i>Earth and Planetary Science Letters</i> , 1995, 133, 397-410.	4.4	121
27	Microbial communities in dark oligotrophic volcanic ice cave ecosystems of Mt. Erebus, Antarctica. <i>Frontiers in Microbiology</i> , 2015, 6, 179.	3.5	120
28	Preservation of ~ 3.5 Ga microbial biomarkers in pillow lavas and hyaloclastites from the Barberton Greenstone Belt, South Africa. <i>Earth and Planetary Science Letters</i> , 2006, 241, 707-722.	4.4	118
29	The Geological History of Deep-Sea Volcanoes: Biosphere, Hydrosphere, and Lithosphere Interactions. <i>Oceanography</i> , 2010, 23, 58-71.	1.0	114
30	Bioalteration of basaltic glass in the oceanic crust. <i>Geochemistry, Geophysics, Geosystems</i> , 2001, 2, n/a-n/a.	2.5	112
31	High-resolution $^{40}\text{Ar}/^{39}\text{Ar}$ dating of the oldest oceanic basement basalts in the western Pacific basin. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, n/a-n/a.	2.5	112
32	The Magellan seamounts: Early Cretaceous record of the South Pacific isotopic and thermal anomaly. <i>Journal of Geophysical Research</i> , 1989, 94, 10501-10523.	3.3	105
33	Comparing petrographic signatures of bioalteration in recent to Mesoproterozoic pillow lavas: Tracing subsurface life in oceanic igneous rocks. <i>Precambrian Research</i> , 2007, 158, 156-176.	2.7	103
34	$^{40}\text{Ar}/^{39}\text{Ar}$ ages and paleomagnetism of São Miguel lavas, Azores. <i>Earth and Planetary Science Letters</i> , 1998, 160, 637-649.	4.4	100
35	The Magellan seamount trail: implications for Cretaceous hotspot volcanism and absolute Pacific plate motion. <i>Earth and Planetary Science Letters</i> , 1998, 163, 53-68.	4.4	93
36	Dike surface lineations as magma flow indicators within the sheeted dike complex of the Troodos Ophiolite, Cyprus. <i>Journal of Geophysical Research</i> , 1998, 103, 5241-5256.	3.3	89

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37	Direct dating of Archean microbial ichnofossils. <i>Geology</i> , 2007, 35, 487.	4.4	87
38	Agents of low temperature ocean crust alteration. <i>Contributions To Mineralogy and Petrology</i> , 1981, 77, 150-157.	3.1	85
39	Samoa reinstated as a primary hotspot trail. <i>Geology</i> , 2008, 36, 435.	4.4	85
40	Shallow intrusive directions of sheeted dikes in the Troodos ophiolite: Anisotropy of magnetic susceptibility and structural data. <i>Geology</i> , 1992, 20, 841.	4.4	84
41	Fungal Diversity Associated with an Active Deep Sea Volcano: Vailulu'u Seamount, Samoa. <i>Geomicrobiology Journal</i> , 2009, 26, 597-605.	2.0	82
42	Vailulu'u Seamount, Samoa: Life and death on an active submarine volcano. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 6448-6453.	7.1	81
43	Defining the Word "Seamount". <i>Oceanography</i> , 2010, 23, 20-21.	1.0	80
44	Samoa hot spot track on a "hot spot highway": Implications for mantle plumes and a deep Samoan mantle source. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	2.5	77
45	Magnesium isotopic composition of altered oceanic crust and the global Mg cycle. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 238, 357-373.	3.9	74
46	Asynchronous Bends in Pacific Seamount Trails: A Case for Extensional Volcanism?. <i>Science</i> , 2005, 307, 904-907.	12.6	72
47	Microbial Ecology of Fe (hydr)oxide Mats and Basaltic Rock from Vailulu'u Seamount, American Samoa. <i>Geomicrobiology Journal</i> , 2009, 26, 581-596.	2.0	70
48	K/Ar and Rb/Sr ages of celadonites from the Troodos ophiolite, Cyprus. <i>Geology</i> , 1986, 14, 72.	4.4	69
49	The upper thermal stability of clinocllore, $Mg_5Al[AlSi_3O_{10}](OH)_8$, at 10 ³⁵ kb $P_{\{H\}}_{\{2\}} \{O\}$. <i>Contributions To Mineralogy and Petrology</i> , 1977, 61, 187-198.	3.1	68
50	Ultrafast subduction: the key to slab recycling efficiency and mantle differentiation?. <i>Earth and Planetary Science Letters</i> , 1992, 109, 517-530.	4.4	62
51	Low-temperature alteration of the upper oceanic crust and the alkalinity budget of seawater. <i>Chemical Geology</i> , 1994, 115, 239-247.	3.3	58
52	Microbes and volcanoes: A tale from the oceans, ophiolites, and greenstone belts. <i>GSA Today</i> , 2006, 16, 4.	2.0	58
53	Age systematics of two young en echelon Samoan volcanic trails. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	56
54	One hundred million years of mantle geochemical history suggest the retiring of mantle plumes is premature. <i>Earth and Planetary Science Letters</i> , 2008, 275, 285-295.	4.4	55

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55	Vein mineral ages of old oceanic crust. <i>Journal of Geophysical Research</i> , 1980, 85, 7195-7200.	3.3	54
56	Paleomagnetism of the southwestern U.S.A. recorded by 0-5 Ma igneous rocks. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	2.5	51
57	Fungal Diversity in a Dark Oligotrophic Volcanic Ecosystem (DOVE) on Mount Erebus, Antarctica. <i>Biology</i> , 2013, 2, 798-809.	2.8	47
58	Submarine Basaltic Glass Colonization by the Heterotrophic Fe(II)-Oxidizing and Siderophore-Producing Deep-Sea Bacterium <i>Pseudomonas stutzeri</i> VS-10: The Potential Role of Basalt in Enhancing Growth. <i>Frontiers in Microbiology</i> , 2017, 8, 363.	3.5	41
59	Oceanic Pillow Lavas and Hyaloclastites as Habitats for Microbial Life Through Time – A Review. <i>Modern Approaches in Solid Earth Sciences</i> , 2008, , 1-68.	0.3	34
60	Jasper Seamount: Seven million years of volcanism. <i>Geology</i> , 1991, 19, 364.	4.4	33
61	An interlaboratory comparison of 16S rRNA gene-based terminal restriction fragment length polymorphism and sequencing methods for assessing microbial diversity of seafloor basalts. <i>Environmental Microbiology</i> , 2009, 11, 1728-1735.	3.8	32
62	Magnetization of the La Palma Seamount Series: Implications for seamount paleopoles. <i>Journal of Geophysical Research</i> , 1993, 98, 11743-11767.	3.3	31
63	Utilization of Substrate Components during Basaltic Glass Colonization by <i>Pseudomonas</i> and <i>Shewanella</i> Isolates. <i>Geomicrobiology Journal</i> , 2009, 26, 648-656.	2.0	30
64	Ion-exchange experiments and RbSr dating on celadonites from the Troodos ophiolite, Cyprus. <i>Chemical Geology</i> , 1995, 126, 155-167.	3.3	29
65	Paleomagnetism and $^{40}\text{Ar}/^{39}\text{Ar}$ ages from La Palma in the Canary Islands. <i>Geochemistry, Geophysics, Geosystems</i> , 2000, 1, n/a-n/a.	2.5	27
66	Nonlinear $^{40}\text{Ar}/^{39}\text{Ar}$ age systematics along the Gilbert Ridge and Tokelau Seamount Trail and the timing of the Hawaii-Emperor Bend. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, n/a-n/a.	2.5	27
67	Geochemical characterization of tubular alteration features in subseafloor basalt glass. <i>Earth and Planetary Science Letters</i> , 2013, 374, 239-250.	4.4	27
68	Short and long baseline tiltmeter measurements on axial seamount, Juan de Fuca Ridge. <i>Physics of the Earth and Planetary Interiors</i> , 1998, 108, 129-141.	1.9	25
69	Re-Os results from ODP Site 801: Evidence for extensive Re uptake during alteration of oceanic crust. <i>Chemical Geology</i> , 2008, 248, 256-271.	3.3	25
70	Geology and petrology of Jasper Seamount. <i>Journal of Geophysical Research</i> , 1991, 96, 4083-4105.	3.3	24
71	A seafloor long-baseline tiltmeter. <i>Journal of Geophysical Research</i> , 1997, 102, 20269-20285.	3.3	23
72	Geochemical Earth Reference Model (GERM): description of the initiative. <i>Chemical Geology</i> , 1998, 145, 153-159.	3.3	23

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73	Paleoarchean trace fossils in altered volcanic glass. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6892-6897.	7.1	21
74	Characterization of alteration textures in Cretaceous oceanic crust (pillow lava) from the N-Atlantic (DSDP Hole 418A) by spatially-resolved spectroscopy. Geochimica Et Cosmochimica Acta, 2012, 96, 80-93.	3.9	20
75	Geochemistry and intrusive directions in sheeted dikes in the Troodos ophiolite: Implications for mid-ocean ridge spreading centers. Geochemistry, Geophysics, Geosystems, 2000, 1, n/a-n/a.	2.5	17
76	The oceanic crust as a bioreactor. Geophysical Monograph Series, 2004, , 325-341.	0.1	17
77	Geographic and Oceanographic Influences on Ferromanganese Crust Composition Along a Pacific Ocean Meridional Transect, 14 N to 14S. Geochemistry, Geophysics, Geosystems, 2020, 21, e2019GC008716.	2.5	17
78	A deep tow magnetic survey of Middle Valley, Juan de Fuca Ridge. Geochemistry, Geophysics, Geosystems, 2001, 2, n/a-n/a.	2.5	16
79	Scalable models of data sharing in Earth sciences. Geochemistry, Geophysics, Geosystems, 2003, 4, .	2.5	16
80	Fe Mössbauer spectroscopy as a tool in astrobiology. Planetary and Space Science, 2006, 54, 1622-1634.	1.7	15
81	Seamounts and Island Building. , 2015, , 405-421.		13
82	Biodiversity and Abundance of Cultured Microfungi from the Permanently Ice-Covered Lake Fryxell, Antarctica. Life, 2018, 8, 37.	2.4	13
83	Electronic data publication in geochemistry. Geochemistry, Geophysics, Geosystems, 2003, 4, .	2.5	11
84	Micro-bioerosion in volcanic glass: extending the ichnofossil record to Archaean basaltic crust. , 2008, , 371-396.		10
85	Petrology and Geochemistry of Submarine Lavas from the Lau and North Fiji Back-Arc Basins. Earth Science Series, 1994, , 119-135.	0.3	7
86	Petrology and isotope geochemistry of lavas from the Line Islands Chain, central Pacific basin. Geophysical Monograph Series, 1993, , 217-231.	0.1	5
87	Pillow lavas as a habitat for microbial life. Geology Today, 2007, 23, 143-146.	0.9	3
88	Electronic data publication in geochemistry: A plea for "full disclosure". Geochemistry, Geophysics, Geosystems, 2001, 2, n/a-n/a.	2.5	2
89	Mössbauer spectroscopy as a tool in astrobiology. Hyperfine Interactions, 2006, 166, 567-571.	0.5	2
90	7.8 Traces of Life. Frontiers in Earth Sciences, 2013, , 1297-1405.	0.1	0

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91	Reply to Grosch and McLoughlin: Glass bioalteration trace fossils can be preserved by titanite in Paleoproterozoic greenstones. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E3092-E3092.	7.1	0