

Hubert Staudigel

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91
papers

7,708
citations

49
h-index

87
g-index

92
ext. papers

8,540
ext. citations

6.6
avg, IF

5.59
L-index

#	Paper	IF	Citations
91	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	5.3	405
90	Alteration of basaltic glass: Mechanisms and significance for the oceanic crust-seawater budget. <i>Geochimica Et Cosmochimica Acta</i> , 1983 , 47, 337-350	5.5	377
89	Composition of altered oceanic crust at ODP Sites 801 and 1149. <i>Geochemistry, Geophysics, Geosystems</i> , 2003 , 4, n/a-n/a	3.6	356
88	Abundance and diversity of microbial life in ocean crust. <i>Nature</i> , 2008 , 453, 653-6	50.4	295
87	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	5.3	287
86	Early life recorded in archean pillow lavas. <i>Science</i> , 2004 , 304, 578-81	33.3	282
85	The return of subducted continental crust in Samoan lavas. <i>Nature</i> , 2007 , 448, 684-7	50.4	227
84	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	3.6	222
83	The control of alkalis and uranium in seawater by ocean crust alteration. <i>Earth and Planetary Science Letters</i> , 1982 , 58, 202-212	5.3	206
82	The Pliocene seamount series of La Palma/Canary Islands. <i>Journal of Geophysical Research</i> , 1984 , 89, 11195-11215		203
81	A vestige of Earth's oldest ophiolite. <i>Science</i> , 2007 , 315, 1704-7	33.3	202
80	Testing the fixed hotspot hypothesis using ⁴⁰ Ar/ ³⁹ Ar age progressions along seamount trails. <i>Earth and Planetary Science Letters</i> , 2001 , 185, 237-252	5.3	182
79	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	5.5	167
78	Alteration of the oceanic crust: Processes and timing. <i>Earth and Planetary Science Letters</i> , 1981 , 52, 311-327	3.7	158
77	The boron isotopic composition of altered oceanic crust. <i>Chemical Geology</i> , 1995 , 126, 119-135	4.2	157
76	The longevity of the South Pacific isotopic and thermal anomaly. <i>Earth and Planetary Science Letters</i> , 1991 , 102, 24-44	5.3	152
75	3.5 billion years of glass bioalteration: Volcanic rocks as a basis for microbial life?. <i>Earth-Science Reviews</i> , 2008 , 89, 156-176	10.2	146

74	Diverse Mn(II)-Oxidizing Bacteria Isolated from Submarine Basalts at Loihi Seamount. <i>Geomicrobiology Journal</i> , 2005 , 22, 127-139	2.5	143
73	Subduction cycling of U, Th, and Pb. <i>Earth and Planetary Science Letters</i> , 2005 , 234, 369-383	5.3	141
72	Sr and Nd isotope systematics in fish teeth. <i>Earth and Planetary Science Letters</i> , 1985 , 76, 45-56	5.3	140
71	Short-lived and discontinuous intraplate volcanism in the South Pacific: Hot spots or extensional volcanism?. <i>Geochemistry, Geophysics, Geosystems</i> , 2003 , 4,	3.6	137
70	Biological mediation in ocean crust alteration: how deep is the deep biosphere?. <i>Earth and Planetary Science Letters</i> , 1999 , 166, 97-103	5.3	137
69	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	3.5	124
68	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	5.3	112
67	Geochemical Fluxes During Seafloor Alteration of the Basaltic Upper Oceanic Crust: DSDP Sites 417 and 418. <i>Geophysical Monograph Series</i> , 2013 , 19-38	1.1	101
66	Bioalteration of basaltic glass in the oceanic crust. <i>Geochemistry, Geophysics, Geosystems</i> , 2001 , 2, n/a-n/a	3.6	100
65	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	4.2	98
64	Preservation of ~3.4B.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	5.3	97
63	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	3.6	94
62	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	3.9	91
61	$^{40}\text{Ar}/^{39}\text{Ar}$ ages and paleomagnetism of São Miguel lavas, Azores. <i>Earth and Planetary Science Letters</i> , 1998 , 160, 637-649	5.3	89
60	The Magellan seamounts: Early Cretaceous record of the South Pacific isotopic and thermal anomaly. <i>Journal of Geophysical Research</i> , 1989 , 94, 10501-10523		89
59	The Geological History of Deep-Sea Volcanoes: Biosphere, Hydrosphere, and Lithosphere Interactions. <i>Oceanography</i> , 2010 , 23, 58-71	2.3	85
58	Agents of low temperature ocean crust alteration. <i>Contributions To Mineralogy and Petrology</i> , 1981 , 77, 150-157	3.5	80
57	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		79

56	Fungal Diversity Associated with an Active Deep Sea Volcano: Vailulu'u Seamount, Samoa. <i>Geomicrobiology Journal</i> , 2009 , 26, 597-605	2.5	76
55	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	5.3	76
54	Shallow intrusive directions of sheeted dikes in the Troodos ophiolite: Anisotropy of magnetic susceptibility and structural data. <i>Geology</i> , 1992 , 20, 841	5	73
53	Direct dating of Archean microbial ichnofossils. <i>Geology</i> , 2007 , 35, 487	5	72
52	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, 6448-53	11.5	70
51	Samoa reinstated as a primary hotspot trail. <i>Geology</i> , 2008 , 36, 435	5	66
50	Microbial communities in dark oligotrophic volcanic ice cave ecosystems of Mt. Erebus, Antarctica. <i>Frontiers in Microbiology</i> , 2015 , 6, 179	5.7	64
49	The upper thermal stability of clinocllore, $Mg_5Al[AlSi_3O_{10}](OH)_8$, at 10B5 kb ($P_{\text{H}_2\text{O}}$). <i>Contributions To Mineralogy and Petrology</i> , 1977 , 61, 187-198	3.5	61
48	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, n/a-n/a	3.6	59
47	Asynchronous bends in Pacific seamount trails: a case for extensional volcanism?. <i>Science</i> , 2005 , 307, 904-7	33.3	59
46	Ultrafast subduction: the key to slab recycling efficiency and mantle differentiation?. <i>Earth and Planetary Science Letters</i> , 1992 , 109, 517-530	5.3	58
45	Microbial Ecology of Fe (hydr)oxide Mats and Basaltic Rock from Vailulu'u Seamount, American Samoa. <i>Geomicrobiology Journal</i> , 2009 , 26, 581-596	2.5	55
44	K/Ar and Rb/Sr ages of celadonites from the Troodos ophiolite, Cyprus. <i>Geology</i> , 1986 , 14, 72	5	54
43	Low-temperature alteration of the upper oceanic crust and the alkalinity budget of seawater. <i>Chemical Geology</i> , 1994 , 115, 239-247	4.2	50
42	Defining the Word "Seamount". <i>Oceanography</i> , 2010 , 23, 20-21	2.3	49
41	Microbes and volcanoes: A tale from the oceans, ophiolites, and greenstone belts. <i>GSA Today</i> , 2006 , 16, 4	2.8	48
40	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	5.3	45
39	Vein mineral ages of old oceanic crust. <i>Journal of Geophysical Research</i> , 1980 , 85, 7195		44

38	Age systematics of two young en echelon Samoan volcanic trails. <i>Geochemistry, Geophysics, Geosystems</i> , 2011 , 12, n/a-n/a	3.6	43
37	Paleomagnetism of the southwestern U.S.A. recorded by 08 Ma igneous rocks. <i>Geochemistry, Geophysics, Geosystems</i> , 2003 , 4,	3.6	41
36	Magnesium isotopic composition of altered oceanic crust and the global Mg cycle. <i>Geochimica Et Cosmochimica Acta</i> , 2018 , 238, 357-373	5.5	37
35	Fungal Diversity in a Dark Oligotrophic Volcanic Ecosystem (DOVE) on Mount Erebus, Antarctica. <i>Biology</i> , 2013 , 2, 798-809	4.9	34
34	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, 1728-35	5.2	29
33	Ion-exchange experiments and RbSr dating on celadonites from the Troodos ophiolite, Cyprus. <i>Chemical Geology</i> , 1995 , 126, 155-167	4.2	27
32	Nonlinear ⁴⁰ Ar/ ³⁹ 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	3.6	25
31	Paleomagnetism and ⁴⁰ Ar/ ³⁹ Ar ages from La Palma in the Canary Islands. <i>Geochemistry, Geophysics, Geosystems</i> , 2000 , 1, n/a-n/a	3.6	25
30	ReOs results from ODP Site 801: Evidence for extensive Re uptake during alteration of oceanic crust. <i>Chemical Geology</i> , 2008 , 248, 256-271	4.2	24
29	Jasper Seamount: Seven million years of volcanism. <i>Geology</i> , 1991 , 19, 364	5	24
28	Utilization of Substrate Components during Basaltic Glass Colonization by Pseudomonas and Shewanella Isolates. <i>Geomicrobiology Journal</i> , 2009 , 26, 648-656	2.5	23
27	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	0.5	23
26	Magnetization of the La Palma Seamount Series: Implications for seamount paleopoles. <i>Journal of Geophysical Research</i> , 1993 , 98, 11743-11767		23
25	Geochemical characterization of tubular alteration features in subseafloor basalt glass. <i>Earth and Planetary Science Letters</i> , 2013 , 374, 239-250	5.3	22
24	Geology and petrology of Jasper Seamount. <i>Journal of Geophysical Research</i> , 1991 , 96, 4083-4105		21
23	Characterization of alteration textures in Cretaceous oceanic crust (pillow lava) from the N-Atlantic (DSDP Hole 418A) by spatially-resolved spectroscopy. <i>Geochimica Et Cosmochimica Acta</i> , 2012 , 96, 80-93	5.5	20
22	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	2.3	20
21	Geochemical Earth Reference Model (GERM): description of the initiative. <i>Chemical Geology</i> , 1998 , 145, 153-159	4.2	20

20	Paleoarchean trace fossils in altered volcanic glass. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 6892-7	11.5	17
19	Submarine Basaltic Glass Colonization by the Heterotrophic Fe(II)-Oxidizing and Siderophore-Producing Deep-Sea Bacterium VS-10: The Potential Role of Basalt in Enhancing Growth. <i>Frontiers in Microbiology</i> , 2017 , 8, 363	5.7	17
18	A seafloor long-baseline tiltmeter. <i>Journal of Geophysical Research</i> , 1997 , 102, 20269-20285		16
17	The Oceanic Crust as a Bioreactor. <i>Geophysical Monograph Series</i> , 2004 , 325-341	1.1	16
16	Fe Mössbauer spectroscopy as a tool in astrobiology. <i>Planetary and Space Science</i> , 2006 , 54, 1622-1634	2	15
15	Geochemistry and intrusive directions in sheeted dikes in the Troodos ophiolite: Implications for mid-ocean ridge spreading centers. <i>Geochemistry, Geophysics, Geosystems</i> , 2000 , 1, n/a-n/a	3.6	14
14	Scalable models of data sharing in Earth sciences. <i>Geochemistry, Geophysics, Geosystems</i> , 2003 , 4,	3.6	13
13	A deep tow magnetic survey of Middle Valley, Juan de Fuca Ridge. <i>Geochemistry, Geophysics, Geosystems</i> , 2001 , 2, n/a-n/a	3.6	13
12	Geographic and Oceanographic Influences on Ferromanganese Crust Composition Along a Pacific Ocean Meridional Transect, 14 N to 14S. <i>Geochemistry, Geophysics, Geosystems</i> , 2020 , 21, e2019GC008716	3.6	11
11	Biodiversity and Abundance of Cultured Microfungi from the Permanently Ice-Covered Lake Fryxell, Antarctica. <i>Life</i> , 2018 , 8,	3	10
10	Electronic data publication in geochemistry. <i>Geochemistry, Geophysics, Geosystems</i> , 2003 , 4,	3.6	9
9	Micro-bioerosion in volcanic glass: extending the ichnofossil record to Archaean basaltic crust 2008 , 371-396		7
8	Petrology and Geochemistry of Submarine Lavas from the Lau and North Fiji Back-Arc Basins. <i>Earth Science Series</i> , 1994 , 119-135		5
7	Seamounts and Island Building 2015 , 405-421		3
6	Pillow lavas as a habitat for microbial life. <i>Geology Today</i> , 2007 , 23, 143-146	0.4	3
5	Petrology and isotope geochemistry of lavas from the Line Islands Chain, central Pacific basin. <i>Geophysical Monograph Series</i> , 1993 , 217-231	1.1	3
4	Mössbauer spectroscopy as a tool in astrobiology. <i>Hyperfine Interactions</i> , 2006 , 166, 567-571	0.8	2
3	Electronic data publication in geochemistry: A plea for full disclosure <i>Geochemistry, Geophysics, Geosystems</i> , 2001 , 2, n/a-n/a	3.6	2

2 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 11.5

1 7.8 Traces of Life. *Frontiers in Earth Sciences*, **2013**, 1297-1405 1.6