Kaj Hoernle

List of Publications by Year in Descending Order

155 papers	8,290 citations	52 h-index	88 g-index
164 ext. papers	9,217 ext. citations	5.5 avg, IF	5.81 L-index

#	Paper	IF	Citations
155	Petrogenesis of the late Paleoproterozoic Gleibat Lafhouda dolomite carbonatite (West African Craton Margin, Moroccan Sahara) and its relevance to the onset of fragmentation of the Columbia supercontinent. *Chemical Geology*, **2022**, 594, 120764	4.2	0
154	Petrogenesis of Lava from Christmas Island, Northeast Indian Ocean: Implications for the Nature of Recycled Components in Non-Plume Intraplate Settings. *Geosciences (Switzerland)*, **2022**, 12, 118	2.7	0
153	Chlorine isotope behavior in subduction zone settings revealed by olivine-hosted melt inclusions from the Central America Volcanic Arc. *Earth and Planetary Science Letters*, **2022**, 581, 117414	5.3	
152	Mineralogy and geochemistry of lavas from the submarine lower caldera walls of Santorini Volcano (Greece). *Journal of Volcanology and Geothermal Research*, **2022**, 427, 107556	2.8	0
151	Hikurangi Plateau subduction a trigger for Vitiaz arc splitting and Havre Trough opening (southwestern Pacific). *Geology*, **2021**, 49, 536-540	5	2
150	High He/He in central Panama reveals a distal connection to the Galapagos plume. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	3
149	Earth's Magnetic Field Strength and the Cretaceous Normal Superchron: New Data From Costa Rica. *Geochemistry, Geophysics, Geosystems*, **2021**, 22, e2020GC009605	3.6	2
148	Os isotopic composition of western Aleutian adakites: Implications for the Re/Os of oceanic crust processed through hot subduction zones. *Geochimica Et Cosmochimica Acta*, **2021**, 292, 452-467	5.5	4
147	Basalt Geochemistry and Mantle Flow During Early Backarc Basin Evolution: Havre Trough and Kermadec Arc, Southwest Pacific. *Geochemistry, Geophysics, Geosystems*, **2021**, 22, e2020GC009339	3.6	2
146	40Ar/39Ar ages and bulk-rock chemistry of the lower submarine units of the central and western Aleutian Arc. *Lithos*, **2021**, 392-393, 106147	2.9	
145	Papanin Ridge and Ojin Rise Seamounts (Northwest Pacific): Dual Hotspot Tracks Formed by the Shatsky Plume. *Geochemistry, Geophysics, Geosystems*, **2021**, 22, e2021GC009847	3.6	2
144	Do the 85°E Ridge and Conrad Rise form a hotspot track crossing the Indian Ocean?. *Lithos*, **2021**, 398-399, 106234	2.9	1
143	Origin of isolated seamounts in the Canary Basin (East Atlantic): The role of plume material in the origin of seamounts not associated with hotspot tracks. *Terra Nova*, **2020**, 32, 390-398	3	6
142	Paired EMI-HIMU hotspots in the South Atlantic-Starting plume heads trigger compositionally distinct secondary plumes?. *Science Advances*, **2020**, 6, eaba0282	14.3	6
141	2.8–1.7 Ga history of the Jiao-Liao-Ji Belt of the North China Craton from the geochronology and geochemistry of mafic Liaohe meta-igneous rocks. *Gondwana Research*, **2020**, 85, 55-75	5.1	7
140	Geochemistry of Etendeka magmatism: Spatial heterogeneity in the Tristan-Gough plume head. *Earth and Planetary Science Letters*, **2020**, 535, 116123	5.3	3
139	Insights into the petrogenesis of an intraplate volcanic province: Sr-Nd-Pb-Hf isotope geochemistry of the Bathymetrists Seamount Province, eastern equatorial Atlantic. *Chemical Geology*, **2020**, 544, 119599	4.2	

138	Cretaceous intracontinental rifting at the southern Chatham Rise margin and initialisation of seafloor spreading between Zealandia and Antarctica. *Tectonophysics*, **2020**, 776, 228298	3.1	11
137	Discovery of Ancient Volcanoes in the Okhotsk Sea (Russia): New Constraints on the Opening History of the Kurile Back Arc Basin. *Geosciences (Switzerland)*, **2020**, 10, 442	2.7	1
136	Sr-Nd-Pb-Hf-O isotopic constraints on the Neoproterozoic to Miocene upper and mid crust in central Chile and western Argentina and trench sediments (33°-35°S). *Journal of South American Earth Sciences*, **2020**, 104, 102879	2	2
135	Late Cretaceous (99-69 Ma) basaltic intraplate volcanism on and around Zealandia: Tracing upper mantle geodynamics from Hikurangi Plateau collision to Gondwana breakup and beyond. *Earth and Planetary Science Letters*, **2020**, 529, 115864	5.3	17
134	Petrogenesis of shield volcanism from the Juan Fernández Ridge, Southeast Pacific: Melting of a low-temperature pyroxenite-bearing mantle plume. *Geochimica Et Cosmochimica Acta*, **2019**, 257, 311-335	5.5	3
133	New Age and Geochemical Data from the Southern Colville and Kermadec Ridges, SW Pacific: Insights into the recent geological history and petrogenesis of the Proto-Kermadec (Vitiaz) Arc. *Gondwana Research*, **2019**, 72, 169-193	5.1	8
132	Late Cretaceous oceanic plate reorganization and the breakup of Zealandia and Gondwana. *Gondwana Research*, **2019**, 65, 31-42	5.1	33
131	New age and geochemical data from the Walvis Ridge: The temporal and spatial diversity of South Atlantic intraplate volcanism and its possible origin. *Geochimica Et Cosmochimica Acta*, **2019**, 245, 16-34	5.5	17
130	Nature and origin of the Mozambique Ridge, SW Indian Ocean. *Chemical Geology*, **2019**, 507, 9-22	4.2	11
129	Subduction initiation terranes exposed at the front of a 2 Ma volcanically-active subduction zone. *Earth and Planetary Science Letters*, **2019**, 508, 30-40	5.3	35
128	Post-Eocene intensification of deep-water circulation in the central South Pacific: Micropalaeontological clues from dredged sites along the eastern Manihiki Plateau margin. *Terra Nova*, **2019**, 31, 28-38	3	
127	Age and geochemistry of the Beata Ridge: Primary formation during the main phase (~89 Ma) of the Caribbean Large Igneous Province. *Lithos*, **2019**, 328-329, 69-87	2.9	19
126	Second-stage Caribbean Large Igneous Province volcanism: The depleted Icing on the enriched Cake. *Chemical Geology*, **2019**, 509, 45-63	4.2	14
125	Age and origin of Researcher Ridge and an explanation for the 14° N anomaly on the Mid-Atlantic Ridge by plume-ridge interaction. *Lithos*, **2019**, 326-327, 540-555	2.9	3
124	Global distribution of the HIMU end member: Formation through Archean plume-lid tectonics. *Earth-Science Reviews*, **2018**, 182, 85-101	10.2	24
123	Age progressive volcanism opposite Nazca plate motion: Insights from seamounts on the northeastern margin of the Galapagos Platform. *Lithos*, **2018**, 310-311, 342-354	2.9	4
122	Unexpected HIMU-type late-stage volcanism on the Walvis Ridge. *Earth and Planetary Science Letters*, **2018**, 492, 251-263	5.3	16
121	Geochemistry of deep Manihiki Plateau crust: Implications for compositional diversity of large igneous provinces in the Western Pacific and their genetic link. *Chemical Geology*, **2018**, 493, 553-566	4.2	14

120	Petrogenesis and Assembly of the Don Manuel Igneous Complex, Miocene–Pliocene Porphyry Copper Belt, Central Chile. *Journal of Petrology*, **2018**, 59, 1067-1108	3.9	5
119	Ultramafic–Mafic Assemblage of Plutonic Rocks and Hornblende Schists of Shirshov Rise, Bering Sea, and Stalemate Ridge, Northwest Pacific: Geodynamic Interpretations of Geochemical Data. *Petrology*, **2018**, 26, 492-514	1.2	7
118	Chromium spinel in Late Quaternary volcanic rocks from Kamchatka: Implications for spatial compositional variability of subarc mantle and its oxidation state. *Lithos*, **2018**, 322, 212-224	2.9	11
117	Boninite-like intraplate magmas from Manihiki Plateau require ultra-depleted and enriched source components. *Nature Communications*, **2017**, 8, 14322	17.4	30
116	Contrasting magmatic cannibalism forms evolved phonolitic magmas in the Canary Islands. *Geology*, **2017**, 45, 147-150	5	5
115	Sr and O isotopes in western Aleutian seafloor lavas: Implications for the source of fluids and trace element character of arc volcanic rocks. *Earth and Planetary Science Letters*, **2017**, 475, 169-180	5.3	20
114	Geochemical and Volcanological Evolution of La Palma, Canary Islands. *Journal of Petrology*, **2017**, 58, 1227-1248	3.9	9
113	The role and conditions of second-stage mantle melting in the generation of low-Ti tholeiites and boninites: the case of the Manihiki Plateau and the Troodos ophiolite. *Contributions To Mineralogy and Petrology*, **2017**, 172, 1	3.5	28
112	The Eyjafjallajökull AD 2010 eruption and the preservation of medium-sized eruptions in marine surface sediment offshore southern Iceland. *Quaternary Research*, **2017**, 87, 386-406	1.9	
111	Can magmatic water contents be estimated from clinopyroxene phenocrysts in some lavas? A case study with implications for the origin of the Azores Islands. *Chemical Geology*, **2017**, 466, 436-445	4.2	7
110	Trench-perpendicular Geochemical Variation Between two Adjacent Kermadec Arc Volcanoes Rumble II East and West: the Role of the Subducted Hikurangi Plateau in Element Recycling in Arc Magmas. *Journal of Petrology*, **2016**, 57, 1335-1360	3.9	11
109	Alkalic marine tephra layers at ODP Site 1241 - Major explosive eruptions from an oceanic volcano in a pre-shield stage?. *Journal of Volcanology and Geothermal Research*, **2016**, 328, 96-104	2.8	8
108	Hydrothermal versus active margin sediment supply to the eastern equatorial Pacific over the past 23 million years traced by radiogenic Pb isotopes: Paleoceanographic and paleoclimatic implications. *Geochimica Et Cosmochimica Acta*, **2016**, 190, 213-238	5.5	2
107	A 1.5 Ma record of plume-ridge interaction at the Western Galápagos Spreading Center (91°40?–92°00?W). *Geochimica Et Cosmochimica Acta*, **2016**, 185, 141-159	5.5	10
106	Tectonic dissection and displacement of parts of Shona hotspot volcano 3500 km along the Agulhas-Falkland Fracture Zone. *Geology*, **2016**, 44, 263-266	5	17
105	Origin of enriched components in the South Atlantic: Evidence from 40 Ma geochemical zonation of the Discovery Seamounts. *Earth and Planetary Science Letters*, **2016**, 441, 167-177	5.3	21
104	Geochemistry and age of Shatsky, Hess, and Ojin Rise seamounts: Implications for a connection between the Shatsky and Hess Rises. *Geochimica Et Cosmochimica Acta*, **2016**, 185, 302-327	5.5	24
103	231Pa systematics in postglacial volcanic rocks from Iceland. *Geochimica Et Cosmochimica Acta*, **2016**, 185, 129-140	5.5	3

102	The composition of mantle plumes and the deep Earth. *Earth and Planetary Science Letters*, **2016**, 444, 13-25	5.3	15
101	Evidence from accreted seamounts for a depleted component in the early Galapagos plume. *Geology*, **2016**, 44, 383-386	5	21
100	How and when plume zonation appeared during the 132 Myr evolution of the Tristan Hotspot. *Nature Communications*, **2015**, 6, 7799	17.4	84
99	Deformation-related volcanism in the Pacific Ocean linked to the Hawaiian–Emperor bend. *Nature Geoscience*, **2015**, 8, 393-397	18.3	21
98	The Role of Subducted Basalt in the Source of Island Arc Magmas: Evidence from Seafloor Lavas of the Western Aleutians. *Journal of Petrology*, **2015**, 56, 441-492	3.9	71
97	Continental crust generated in oceanic arcs. *Nature Geoscience*, **2015**, 8, 321-327	18.3	72
96	Olivine Major and Trace Element Compositions in Southern Payenia Basalts, Argentina: Evidence for Pyroxenite–Peridotite Melt Mixing in a Back-arc Setting. *Journal of Petrology*, **2015**, 56, 1495-1518	3.9	35
95	Mid-ocean ridge basalt generation along the slow-spreading, South Mid-Atlantic Ridge (5–11°S): Inferences from 238U–230Th–226Ra disequilibria. *Geochimica Et Cosmochimica Acta*, **2015**, 169, 152-166	5.5	11
94	Geochemistry of the late Holocene rocks from the Tolbachik volcanic field, Kamchatka: Quantitative modelling of subduction-related open magmatic systems. *Journal of Volcanology and Geothermal Research*, **2015**, 307, 133-155	2.8	44
93	Cocos Plate Seamounts offshore NW Costa Rica and SW Nicaragua: Implications for large-scale distribution of Galapagos plume material in the upper mantle. *Lithos*, **2015**, 212-215, 214-230	2.9	5
92	238 U–230 Th–226 Ra Disequilibria Constraints on the Magmatic Evolution of the Cumbre Vieja Volcanics on La Palma, Canary Islands. *Journal of Petrology*, **2015**, 56, 1999-2024	3.9	4
91	Quantification of the CO2 budget and H2O–CO2 systematics in subduction-zone magmas through the experimental hydration of melt inclusions in olivine at high H2O pressure. *Earth and Planetary Science Letters*, **2015**, 425, 1-11	5.3	62
90	Constraining input and output fluxes of the southern-central Chile subduction zone: water, chlorine and sulfur. *International Journal of Earth Sciences*, **2014**, 103, 2129-2153	2.2	11
89	Geochemical variations in the Central Southern Volcanic Zone, Chile (38–43°S): The role of fluids in generating arc magmas. *Chemical Geology*, **2014**, 371, 27-45	4.2	43
88	Insights from trace element geochemistry as to the roles of subduction zone geometry and subduction input on the chemistry of arc magmas. *International Journal of Earth Sciences*, **2014**, 103, 1929-1944	2.2	22
87	Plume versus plate origin for the Shatsky Rise oceanic plateau (NW Pacific): Insights from Nd, Pb and Hf isotopes. *Lithos*, **2014**, 200-201, 49-63	2.9	29
86	The age of Earth's largest volcano: Tamu Massif on Shatsky Rise (northwest Pacific Ocean). *International Journal of Earth Sciences*, **2014**, 103, 2351-2357	2.2	31
85	Volatile (sulphur and chlorine), major, and trace element geochemistry of mafic to intermediate tephras from the Chilean Southern Volcanic Zone (33–43°S). *International Journal of Earth Sciences*, **2014**, 103, 1945-1962	2.2	20

84	Contrasting conditions of rift and off-rift silicic magma origin on Iceland. *Geophysical Research Letters*, **2014**, 41, 5813-5820	4.9	15
83	Petroleum Migration, Fluid Mixing, and Halokinesis as the Main Ore-Forming Processes at the Peridiapiric Jbel Tirremi Fluorite-Barite Hydrothermal Deposit, Northeastern Morocco. *Economic Geology*, **2014**, 109, 1223-1256	4.3	14
82	Helium Isotope Variations and Mantle Plume-Spreading Ridge Interactions Along the Galapagos Spreading Center. *Geophysical Monograph Series*, **2014**, 393-414	1.1	5
81	Pacific plate slab pull and intraplate deformation in the early Cenozoic. *Solid Earth*, **2014**, 5, 757-777	3.3	14
80	Cretaceous fore-arc basalts from the Tonga arc: Geochemistry and implications for the tectonic history of the SW Pacific. *Tectonophysics*, **2014**, 630, 21-32	3.1	19
79	Seamounts off the West Antarctic margin: A case for non-hotspot driven intraplate volcanism. *Gondwana Research*, **2014**, 25, 1660-1679	5.1	34
78	Contrasting compositional trends of rocks and olivine-hosted melt inclusions from Cerro Negro volcano (Central America): implications for decompression-driven fractionation of hydrous magmas. *International Journal of Earth Sciences*, **2014**, 103, 1963-1982	2.2	12
77	Across-arc geochemical variations in the Southern Volcanic Zone, Chile (34.5–38.0°S): Constraints on mantle wedge and slab input compositions. *Geochimica Et Cosmochimica Acta*, **2013**, 123, 218-243	5.5	89
76	Two-stage evolution of mantle peridotites from the Stalemate Fracture Zone, northwestern Pacific. *Geochemistry International*, **2013**, 51, 683-695	0.8	6
75	Evidence for an age progression along the Tristan-Gough volcanic track from new 40Ar/39Ar ages on phenocryst phases. *Tectonophysics*, **2013**, 604, 60-71	3.1	75
74	70 Ma chemical zonation of the Tristan-Gough hotspot track. *Geology*, **2013**, 41, 335-338	5	42
73	Influence of the Galapagos hotspot on the East Pacific Rise during Miocene superfast spreading. *Geology*, **2013**, 41, 183-186	5	18
72	Basalts erupted along the Tongan fore arc during subduction initiation: Evidence from geochronology of dredged rocks from the Tonga fore arc and trench. *Geochemistry, Geophysics, Geosystems*, **2012**, 13,	3.6	68
71	Bowers Ridge (Bering Sea): An Oligocene-Early Miocene island arc. *Geology*, **2012**, 40, 687-690	5	24
70	Along and across arc geochemical variations in NW Central America: Evidence for involvement of lithospheric pyroxenite. *Geochimica Et Cosmochimica Acta*, **2012**, 84, 459-491	5.5	36
69	H2O-rich melt inclusions in fayalitic olivine from Hekla volcano: Implications for phase relationships in silicic systems and driving forces of explosive volcanism on Iceland. *Earth and Planetary Science Letters*, **2012**, 357-358, 337-346	5.3	29
68	Granitoids and dykes of the Pine Island Bay region, West Antarctica. *Antarctic Science*, **2012**, 24, 473-484	1.7	16
67	Volcanic CO2 output at the Central American subduction zone inferred from melt inclusions in olivine crystals from mafic tephras. *Geochemistry, Geophysics, Geosystems*, **2011**, 12, n/a-n/a	3.6	28

66	Origin of Indian Ocean Seamount Province by shallow recycling of continental lithosphere. *Nature Geoscience*, **2011**, 4, 883-887	18.3	65
65	Age and geochemistry of the oceanic Manihiki Plateau, SW Pacific: New evidence for a plume origin. *Earth and Planetary Science Letters*, **2011**, 304, 135-146	5.3	68
64	On- and off-axis chemical heterogeneities along the South Atlantic Mid-Ocean-Ridge (5–11°S): Shallow or deep recycling of ocean crust and/or intraplate volcanism?. *Earth and Planetary Science Letters*, **2011**, 306, 86-97	5.3	68
63	Thermochronological constraints on two-stage extrusion of HP/UHP terranes in the Dabie–Sulu orogen, east-central China. *Tectonophysics*, **2011**, 504, 25-42	3.1	106
62	Plume–subduction interaction in southern Central America: Mantle upwelling and slab melting. *Lithos*, **2011**, 121, 117-134	2.9	101
61	Hafnium isotopic variations in East Atlantic intraplate volcanism. *Contributions To Mineralogy and Petrology*, **2011**, 162, 21-36	3.5	24
60	Petrogenesis of the Eocene Tamazert Continental Carbonatites (Central High Atlas, Morocco): Implications for a Common Source for the Tamazert and Canary and Cape Verde Island Carbonatites. *Journal of Petrology*, **2010**, 51, 1655-1686	3.9	43
59	Tracing the metasomatic and magmatic evolution of continental mantle roots with Sr, Nd, Hf and and Pb isotopes: A case study of Middle Atlas (Morocco) peridotite xenoliths. *Geochimica Et Cosmochimica Acta*, **2010**, 74, 1417-1435	5.5	36
58	Age and geochemistry of volcanic rocks from the Hikurangi and Manihiki oceanic Plateaus. *Geochimica Et Cosmochimica Acta*, **2010**, 74, 7196-7219	5.5	99
57	A major element, PGE and Re–Os isotope study of Middle Atlas (Morocco) peridotite xenoliths: Evidence for coupled introduction of metasomatic sulphides and clinopyroxene. *Lithos*, **2010**, 115, 15-26	2.9	42
56	Temporal and geochemical evolution of the Cenozoic intraplate volcanism of Zealandia. *Earth-Science Reviews*, **2010**, 98, 38-64	10.2	110
55	Geochemical Evolution of Intraplate Volcanism at Banks Peninsula, New Zealand: Interaction Between Asthenospheric and Lithospheric Melts. *Journal of Petrology*, **2009**, 50, 989-1023	3.9	61
54	Geochemical variations in the Cocos Plate subducting beneath Central America: implications for the composition of arc volcanism and the extent of the Galapagos Hotspot influence on the Cocos oceanic crust. *International Journal of Earth Sciences*, **2009**, 98, 901-913	2.2	16
53	Ultra-depleted melts from Kamchatkan ophiolites: Evidence for the interaction of the Hawaiian plume with an oceanic spreading center in the Cretaceous?. *Earth and Planetary Science Letters*, **2009**, 287, 194-204	5.3	17
52	Time-scales for magmatic differentiation at the Snaefellsjökull central volcano, western Iceland: Constraints from U–Th–Pa–Ra disequilibria in post-glacial lavas. *Geochimica Et Cosmochimica Acta*, **2009**, 73, 1120-1144	5.5	27
51	Galapagos-OIB signature in southern Central America: Mantle refertilization by arc–hot spot interaction. *Geochemistry, Geophysics, Geosystems*, **2009**, 10, n/a-n/a	3.6	83
50	Arc-parallel flow in the mantle wedge beneath Costa Rica and Nicaragua. *Nature*, **2008**, 451, 1094-7	50.4	166
49	Hikurangi Plateau: Crustal structure, rifted formation, and Gondwana subduction history. *Geochemistry, Geophysics, Geosystems*, **2008**, 9, n/a-n/a	3.6	188

48	Geochemistry of a new enriched mantle type locality in the northern hemisphere: Implications for the origin of the EM-I source. *Earth and Planetary Science Letters*, **2008**, 265, 167-182	5.3	56
47	Age and Geochemistry of the Central American Forearc Basement (DSDP Leg 67 and 84): Insights into Mesozoic Arc Volcanism and Seamount Accretion on the Fringe of the Caribbean LIP. *Journal of Petrology*, **2008**, 49, 1781-1815	3.9	48
46	Mid-Cretaceous Hawaiian tholeiites preserved in Kamchatka. *Geology*, **2008**, 36, 903	5	33
45	Subduction cycling of volatiles and trace elements through the Central American volcanic arc: evidence from melt inclusions. *Contributions To Mineralogy and Petrology*, **2008**, 155, 433-456	3.5	109
44	Geochemical zonation of the Miocene Alborn Basin volcanism (westernmost Mediterranean): geodynamic implications. *Contributions To Mineralogy and Petrology*, **2008**, 156, 577-593	3.5	80
43	Constraints on mantle melting and composition and nature of slab components in volcanic arcs from volatiles (H2O, S, Cl, F) and trace elements in melt inclusions from the Kamchatka Arc. *Earth and Planetary Science Letters*, **2007**, 255, 53-69	5.3	234
42	Boron isotope geochemistry and UPb systematics of altered MORB from the Australian Antarctic Discordance (ODP Leg 187). *Chemical Geology*, **2007**, 242, 455-469	4.2	17
41	Drastic shift in lava geochemistry in the volcanic-front to rear-arc region of the Southern Kamchatkan subduction zone: Evidence for the transition from slab surface dehydration to sediment melting. *Geochimica Et Cosmochimica Acta*, **2007**, 71, 452-480	5.5	92
40	A geochemical transect across a heterogeneous mantle upwelling: Implications for the evolution of the Madeira hotspot in space and time. *Lithos*, **2006**, 90, 131-144	2.9	17
39	Origin and geochemical evolution of the Madeira-Tore Rise (eastern North Atlantic). *Journal of Geophysical Research*, **2006**, 111,		53
38	Cenozoic intraplate volcanism on New Zealand: Upwelling induced by lithospheric removal. *Earth and Planetary Science Letters*, **2006**, 248, 350-367	5.3	144
37	New constraints on the age and evolution of the Wishbone Ridge, southwest Pacific Cretaceous microplates, and Zealandia West Antarctica breakup. *Geology*, **2006**, 34, 185	5	69
36	Plume Ridge interaction studied at the Gal pagos spreading center: Evidence from 226Ra 230Th 238U and 231Pa 235U isotopic disequilibria. *Earth and Planetary Science Letters*, **2005**, 234, 165-187	5.3	35
35	Post-Collisional Transition from Subduction- to Intraplate-type Magmatism in the Westernmost Mediterranean: Evidence for Continental-Edge Delamination of Subcontinental Lithosphere. *Journal of Petrology*, **2005**, 46, 1155-1201	3.9	387
34	Transition from arc to oceanic magmatism at the Kamchatka-Aleutian junction. *Geology*, **2005**, 33, 25	5	76
33	Oxygen isotope evidence for slab melting in modern and ancient subduction zones. *Earth and Planetary Science Letters*, **2005**, 235, 480-496	5.3	186
32	New 40Ar / 39Ar age and geochemical data from seamounts in the Canary and Madeira volcanic provinces: Support for the mantle plume hypothesis. *Earth and Planetary Science Letters*, **2005**, 237, 85-101	5.3	142
31	Morphological and geochemical variations along the eastern Gal pagos Spreading Center. *Geochemistry, Geophysics, Geosystems*, **2005**, 6, n/a-n/a	3.6	44

30	Sr-Nd isotope systematics in 14–28 Ma low-temperature altered mid-ocean ridge basalt from the Australian Antarctic Discordance, Ocean Drilling Program Leg 187. *Geochemistry, Geophysics, Geosystems*, **2005**, 6, n/a-n/a	3.6	11
29	Basanite to phonolite differentiation within 1550–1750 yr: U-Th-Ra isotopic evidence from the A.D. 1585 eruption on La Palma, Canary Islands. *Geology*, **2005**, 33, 897	5	17
28	The Cocos and Carnegie Aseismic Ridges: a Trace Element Record of Long-term Plume–Spreading Center Interaction. *Journal of Petrology*, **2005**, 46, 109-133	3.9	52
27	70 m.y. history (139–69 Ma) for the Caribbean large igneous province. *Geology*, **2004**, 32, 697	5	116
26	Magmatic evolution of the Alboran region: The role of subduction in forming the western Mediterranean and causing the Messinian Salinity Crisis. *Earth and Planetary Science Letters*, **2004**, 218, 91-108	5.3	237
25	New volcanological and volatile data provide strong support for the continuous existence of Galapagos Islands over the past 17 million years. *International Journal of Earth Sciences*, **2003**, 92, 904-911	2.2	19
24	Deep roots of the Messinian salinity crisis. *Nature*, **2003**, 422, 602-6	50.4	439
23	Sr-Nd-Pb composition of Mesozoic Pacific oceanic crust (Site 1149 and 801, ODP Leg 185): Implications for alteration of ocean crust and the input into the Izu-Bonin-Mariana subduction system. *Geochemistry, Geophysics, Geosystems*, **2003**, 4,	3.6	168
22	Hafnium isotopic variations in volcanic rocks from the Caribbean Large Igneous Province and Galapagos hot spot tracks. *Geochemistry, Geophysics, Geosystems*, **2003**, 4,	3.6	49
21	Geodynamic evolution of the Galapagos hot spot system (Central East Pacific) over the past 20 m.y.: Constraints from morphology, geochemistry, and magnetic anomalies. *Geochemistry, Geophysics, Geosystems*, **2003**, 4,	3.6	88
20	U-series disequilibria in volcanic rocks from the Canary Islands: Plume versus lithospheric melting. *Geochimica Et Cosmochimica Acta*, **2003**, 67, 4153-4177	5.5	85
19	Upwelling and melting of the Iceland plume from radial variation of ^{238}U–^{230}Th disequilibria in postglacial volcanic rocks. *Earth and Planetary Science Letters*, **2003**, 214, 167-186	5.3	56
18	Geochemistry of oceanic carbonatites compared with continental carbonatites: mantle recycling of oceanic crustal carbonate. *Contributions To Mineralogy and Petrology*, **2002**, 142, 520-542	3.5	300
17	Missing history (16–71 Ma) of the Galapagos hotspot: Implications for the tectonic and biological evolution of the Americas. *Geology*, **2002**, 30, 795	5	147
16	Earlier history of the 70-Ma-old Canary hotspot based on the temporal and geochemical evolution of the Selvagen Archipelago and neighboring seamounts in the eastern North Atlantic. *Journal of Volcanology and Geothermal Research*, **2001**, 111, 55-87	2.8	115
15	Existence of complex spatial zonation in the Galapagos plume. *Geology*, **2000**, 28, 435	5	114
14	The 72 Ma geochemical evolution of the Madeira hotspot (eastern North Atlantic): recycling of Paleozoic (500 Ma) oceanic lithosphere. *Earth and Planetary Science Letters*, **2000**, 183, 73-92	5.3	83
13	Large volume recycling of oceanic lithosphere over short time scales: geochemical constraints from the Caribbean Large Igneous Province. *Earth and Planetary Science Letters*, **2000**, 174, 247-263	5.3	119

12	Age and geochemistry of basaltic complexes in western Costa Rica: Contributions to the geotectonic evolution of Central America. *Geochemistry, Geophysics, Geosystems*, **2000**, 1,	3.6	123
11	Existence of complex spatial zonation in the Galapagos plume. *Geology*, **2000**, 28, 435-438	5	7
10	Drowned 14-m.y.-old Galapagos archipelago off the coast of Costa Rica: Implications for tectonic and evolutionary models. *Geology*, **1999**, 27, 499	5	117
9	Samples from the Jurassic ocean crust beneath Gran Canaria, La Palma and Lanzarote (Canary Islands). *Earth and Planetary Science Letters*, **1998**, 163, 343-360	5.3	59
8	Geochemistry of Jurassic Oceanic Crust beneath Gran Canaria (Canary Islands): Implications for Crustal Recycling and Assimilation. *Journal of Petrology*, **1998**, 39, 859-880	3.9	97
7	A Mid Cretaceous origin for the Galapagos hotspot: volcanological, petrological and geochemical evidence from Costa Rican oceanic crustal segments. *Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie*, **1997**, 86, 141-155		73
6	A Mid Cretaceous origin for the Galapagos hotspot: volcanological, petrological and geochemical evidence from Costa Rican oceanic crustal segments **1997**, 86, 141		1
5	Seismic and geochemical evidence for large-scale mantle upwelling beneath the eastern Atlantic and western and central Europe. *Nature*, **1995**, 374, 34-39	50.4	337
4	The Petrology of the Tholeiites through Melilite Nephelinites on Gran Canaria, Canary Islands: Crystal Fractionation, Accumulation, and Depths of Melting. *Journal of Petrology*, **1993**, 34, 573-597	3.9	112
3	The Role of Partial Melting in the 15-Ma Geochemical Evolution of Gran Canaria: A Blob Model for the Canary Hotspot. *Journal of Petrology*, **1993**, 34, 599-626	3.9	182
2	SrNdPb isotopic evolution of Gran Canaria: Evidence for shallow enriched mantle beneath the Canary Islands. *Earth and Planetary Science Letters*, **1991**, 106, 44-63	5.3	174
1	Geochemistry of carbonate cements in the Sag River and Shublik Formations (Triassic/Jurassic), North Slope, Alaska: implications for the geochemical evolution of formation waters. *Sedimentology* , **1990**, 37, 817-836	3.3	16