

A catalogue of deep mantle plumes: New results from fi

Geochemistry, Geophysics, Geosystems

7, n/a-n/a

DOI: 10.1029/2006gc001248

Citation Report

#	ARTICLE	IF	CITATIONS
1	The Yellowstone "hot spot" track results from migrating basin-range extension. Special Paper of the Geological Society of America, 2015, , 215-238.	0.5	4
2	Plume fluxes from seismic tomography. Earth and Planetary Science Letters, 2006, 248, 685-699.	1.8	85
3	Comment on "Banana-doughnut kernels and mantle tomography" by van der Hilst and de Hoop. Geophysical Journal International, 2006, 167, 1204-1210.	1.0	25
4	Reply to comment by R. Montelli, G. Nolet and F. A. Dahlen on "Banana-doughnut kernels and mantle tomography". Geophysical Journal International, 2006, 167, 1211-1214.	1.0	19
5	The Kalahari Epeirogeny and climate change: differentiating cause and effect from core to space. South African Journal of Geology, 2007, 110, 367-392.	0.6	91
6	Petascale computing and resolution in global seismic tomography. Physics of the Earth and Planetary Interiors, 2007, 163, 245-250.	0.7	14
7	80-Myr history of buoyancy and volcanic fluxes along the trails of the Walvis and St. Helena hotspots (South Atlantic). Earth and Planetary Science Letters, 2007, 261, 432-442.	1.8	30
8	New Samoan lavas from Ofu Island reveal a hemispherically heterogeneous high $^3\text{He}/^4\text{He}$ mantle. Earth and Planetary Science Letters, 2007, 264, 360-374.	1.8	116
9	Correlation of seismic and petrologic thermometers suggests deep thermal anomalies beneath hotspots. Earth and Planetary Science Letters, 2007, 264, 308-316.	1.8	82
10	Mantle plume tomography. Chemical Geology, 2007, 241, 248-263.	1.4	69
11	Bathymetry of the Pacific plate and its implications for thermal evolution of lithosphere and mantle dynamics. Journal of Geophysical Research, 2007, 112, .	3.3	32
12	Large igneous provinces. Eos, 2007, 88, 505-505.	0.1	5
13	Mantle plumes: Dynamic models and seismic images. Geochemistry, Geophysics, Geosystems, 2007, 8, .	1.0	92
14	Whole mantle discontinuity structure beneath Hawaii. Geophysical Research Letters, 2007, 34, .	1.5	33
15	Predicting a global perovskite and post-perovskite phase boundary. Geophysical Monograph Series, 2007, , 155-170.	0.1	2
16	Partial melt in the lowermost mantle near the base of a plume. Geophysical Journal International, 2007, 168, 809-817.	1.0	14
17	Major element, trace element, and Sr, Nd and Pb isotope studies of Cenozoic basalts from the South China Sea. Science in China Series D: Earth Sciences, 2008, 51, 550-566.	0.9	101
18	Nature, source and composition of volcanic ash in surficial sediments around the Zhongsha Islands. Journal of Ocean University of China, 2008, 7, 154-160.	0.6	5

#	ARTICLE	IF	CITATIONS
19	Cross-dependence of finite-frequency compressional waveforms to shear seismic wave speeds. <i>Geophysical Journal International</i> , 2008, 174, 941-948.	1.0	21
20	Mantle plume heterogeneity versus shallow-level interactions: A case study, the São Nicolau Island, Cape Verde archipelago. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 176, 265-276.	0.8	46
21	A new global model for P wave speed variations in Earth's mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	1.0	558
22	An integrated study of microstructural, geochemical, and seismic properties of the lithospheric mantle above the Kerguelen plume (Indian Ocean). <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	1.0	42
23	S wave velocity structure of the Arabian Shield upper mantle from Rayleigh wave tomography. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	1.0	63
24	Crust and upper mantle velocity structure of the Yellowstone hot spot and surroundings. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	57
25	Body tides of a convecting, laterally heterogeneous, and aspherical Earth. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	19
26	Rethinking geochemical feature of the Afar and Kenya mantle plumes and geodynamic implications. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	28
27	Upper mantle seismic structure beneath the Ethiopian hot spot: Rifting at the edge of the African low-velocity anomaly. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	1.0	178
28	On the statistical significance of correlations between synthetic mantle plumes and tomographic models. <i>Physics of the Earth and Planetary Interiors</i> , 2008, 167, 230-238.	0.7	31
29	Between a rock and a hot place: the core-mantle boundary. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008, 366, 4543-4557.	1.6	5
30	Discontinuous and diachronous evolution of the Main Ethiopian Rift: Implications for development of continental rifts. <i>Earth and Planetary Science Letters</i> , 2008, 265, 96-111.	1.8	129
31	Plume Generation Zones at the margins of Large Low Shear Velocity Provinces on the core-mantle boundary. <i>Earth and Planetary Science Letters</i> , 2008, 265, 49-60.	1.8	422
32	Break-up spots: Could the Pacific open as a consequence of plate kinematics?. <i>Earth and Planetary Science Letters</i> , 2008, 265, 195-208.	1.8	27
33	On the statistical distribution of seismic velocities in Earth's deep mantle. <i>Earth and Planetary Science Letters</i> , 2008, 265, 423-437.	1.8	106
34	Long term stability in deep mantle structure: Evidence from the ~ 300 Ma Skagerrak-Centered Large Igneous Province (the SCLIP). <i>Earth and Planetary Science Letters</i> , 2008, 267, 444-452.	1.8	136
35	Insights into the nature of plume-asthenosphere interaction from central Pacific geophysical anomalies. <i>Earth and Planetary Science Letters</i> , 2008, 274, 234-240.	1.8	26
36	Constraints on lowermost mantle mineralogy and fabric beneath Siberia from seismic anisotropy. <i>Earth and Planetary Science Letters</i> , 2008, 275, 32-42.	1.8	62

#	ARTICLE	IF	CITATIONS
37	Re ¹⁸⁷ Os isotopic compositions of picrites from the Emeishan flood basalt province, China. <i>Earth and Planetary Science Letters</i> , 2008, 276, 30-39.	1.8	94
38	Longitude: Linking Earth's ancient surface to its deep interior. <i>Earth and Planetary Science Letters</i> , 2008, 276, 273-282.	1.8	146
39	Mantle plumes: Thin, fat, successful, or failing? Constraints to explain hot spot volcanism through time and space. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	83
40	Urey ratio and the structure and evolution of Earth's mantle. <i>Reviews of Geophysics</i> , 2008, 46, .	9.0	287
41	⁴⁰ Ar/ ³⁹ Ar constraints on the timing and origin of Miocene leucitite volcanism in southeastern Australia. <i>Australian Journal of Earth Sciences</i> , 2008, 55, 407-418.	0.4	36
42	Samoa reinstated as a primary hotspot trail. <i>Geology</i> , 2008, 36, 435.	2.0	85
43	What CO ₂ well gases tell us about the origin of noble gases in the mantle and their relationship to the atmosphere. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008, 366, 4183-4203.	1.6	39
44	Mantle Shear-Wave Velocity Structure Beneath the Hawaiian Hot Spot. <i>Science</i> , 2009, 326, 1388-1390.	6.0	190
45	Tails of two plume types in one mantle. <i>Geology</i> , 2009, 37, 127-130.	2.0	10
46	Geochemical Evolution of Intraplate Volcanism at Banks Peninsula, New Zealand: Interaction Between Asthenospheric and Lithospheric Melts. <i>Journal of Petrology</i> , 2009, 50, 989-1023.	1.1	74
47	Is the track of the Yellowstone hotspot driven by a deep mantle plume? â€” Review of volcanism, faulting, and uplift in light of new data. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 188, 1-25.	0.8	119
48	Continental rift evolution: From rift initiation to incipient break-up in the Main Ethiopian Rift, East Africa. <i>Earth-Science Reviews</i> , 2009, 96, 1-53.	4.0	426
49	Constraints on Glacial Isostatic Adjustment from GOCE and Sea Level Data. <i>Pure and Applied Geophysics</i> , 2009, 166, 1261-1281.	0.8	8
50	Mantle transition zone structure beneath Kenya and Tanzania: more evidence for a deep-seated thermal upwelling in the mantle. <i>Geophysical Journal International</i> , 2009, 177, 1249-1255.	1.0	78
51	Metamorphic patterns in orogenic systems and the geological record. <i>Geological Society Special Publication</i> , 2009, 318, 37-74.	0.8	102
52	Enriched, HIMU-type peridotite and depleted recycled pyroxenite in the Canary plume: A mixed-up mantle. <i>Earth and Planetary Science Letters</i> , 2009, 277, 514-524.	1.8	104
53	Thermally-driven mantle plumes reconcile multiple hot-spot observations. <i>Earth and Planetary Science Letters</i> , 2009, 278, 50-54.	1.8	76
54	Local variability in the 410-km mantle discontinuity under a hotspot. <i>Earth and Planetary Science Letters</i> , 2009, 288, 158-163.	1.8	12

#	ARTICLE	IF	CITATIONS
55	Reconsidering the origins of isotopic variations in Ocean Island Basalts: Insights from fine-scale study of S�o Jorge Island, Azores archipelago. <i>Chemical Geology</i> , 2009, 265, 289-302.	1.4	38
56	Time-scales for magmatic differentiation at the Snaefellsj�kull central volcano, western Iceland: Constraints from U�Th�Pa�Ra disequilibria in post-glacial lavas. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 1120-1144.	1.6	34
57	Primitive off-rift basalts from Iceland and Jan Mayen: Os-isotopic evidence for a mantle source containing enriched subcontinental lithosphere. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 3423-3449.	1.6	52
58	Seismic tomography of the Pacific slab edge under Kamchatka. <i>Tectonophysics</i> , 2009, 465, 190-203.	0.9	70
59	Late Maastrichtian Volcanism in the Indian Ocean: Effects on Calcareous Nannofossils and Planktic Foraminifera. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2009, 284, 63-87.	1.0	30
60	New seismic constraints on the upper mantle structure of the Hainan plume. <i>Physics of the Earth and Planetary Interiors</i> , 2009, 173, 33-50.	0.7	176
61	P-wave tomography of the mantle beneath the South Pacific Superswell revealed by joint ocean floor and islands broadband seismic experiments. <i>Physics of the Earth and Planetary Interiors</i> , 2009, 172, 268-277.	0.7	21
62	Upper mantle anisotropy beneath Indochina block and adjacent regions from shear-wave splitting analysis of Vietnam broadband seismograph array data. <i>Physics of the Earth and Planetary Interiors</i> , 2009, 176, 33-43.	0.7	34
63	The relative wavelengths of fast and slow velocity anomalies in the lower mantle: Contrary to the expectations of dynamics?. <i>Physics of the Earth and Planetary Interiors</i> , 2009, 176, 187-197.	0.7	8
64	Submarine Hydrothermal Mineral Systems. , 2009, , 581-726.		3
65	Thermal versus elastic heterogeneity in high�resolution mantle circulation models with pyrolite composition: High plume excess temperatures in the lowermost mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	1.0	111
66	Galapagos�OIB signature in southern Central America: Mantle refertilization by arc�hot spot interaction. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	1.0	94
67	Tomographic filtering of high�resolution mantle circulation models: Can seismic heterogeneity be explained by temperature alone?. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	1.0	141
68	South Pacific mantle plumes imaged by seismic observation on islands and seafloor. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	1.0	68
69	A low�velocity conduit throughout the mantle in the robust component of a tomography model. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	5
70	Absolute plate motions constrained by shear wave splitting orientations with implications for hot spot motions and mantle flow. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	86
71	Flow of Canary mantle plume material through a subcontinental lithospheric corridor beneath Africa to the Mediterranean. <i>Geology</i> , 2009, 37, 283-286.	2.0	123
72	W isotope compositions of oceanic islands basalts from French Polynesia and their meaning for core�mantle interaction. <i>Chemical Geology</i> , 2009, 260, 37-46.	1.4	23

#	ARTICLE	IF	CITATIONS
73	Importance of crustal corrections in the development of a new global model of radial anisotropy. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	130
74	Structure, mineralogy and dynamics of the lowermost mantle. <i>Mineralogy and Petrology</i> , 2010, 99, 243-261.	0.4	41
75	Chemical and mineralogical evidence of the occurrence of mantle metasomatism by carbonate-rich melts in an oceanic environment (Santiago Island, Cape Verde). <i>Mineralogy and Petrology</i> , 2010, 99, 43-65.	0.4	36
76	Crustal thinning beneath the Rwenzori region, Albertine rift, Uganda, from receiver-function analysis. <i>International Journal of Earth Sciences</i> , 2010, 99, 1545-1557.	0.9	45
77	Volcano-stratigraphic and structural evolution of Brava Island (Cape Verde) based on $^{40}\text{Ar}/^{39}\text{Ar}$, U-Th and field constraints. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 196, 219-235.	0.8	67
78	Buoyant ancient continental mantle embedded in oceanic lithosphere (Sal Island, Cape Verde) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	0.6	53
79	Temporal and geochemical evolution of the Cenozoic intraplate volcanism of Zealandia. <i>Earth-Science Reviews</i> , 2010, 98, 38-64.	4.0	129
81	Quaternary extrusive calciocarbonatite volcanism on Brava Island (Cape Verde): A nephelinite-carbonatite immiscibility product. <i>Journal of African Earth Sciences</i> , 2010, 56, 59-74.	0.9	42
82	Response of mantle transition zone thickness to plume buoyancy flux. <i>Geophysical Journal International</i> , 2010, 180, 49-58.	1.0	6
83	Frequency-dependent effects on global S-wave traveltimes: wavefront-healing, scattering and attenuation. <i>Geophysical Journal International</i> , 2010, 182, 1025-1042.	1.0	27
84	Underplating of the Hawaiian Swell: evidence from teleseismic receiver functions. <i>Geophysical Journal International</i> , 2010, 183, 313-329.	1.0	83
85	Diamonds sampled by plumes from the core-mantle boundary. <i>Nature</i> , 2010, 466, 352-355.	13.7	399
86	Proposal with a ring of diamonds. <i>Nature</i> , 2010, 466, 326-327.	13.7	7
87	Intraplate Seamounts as a Window into Deep Earth Processes. <i>Oceanography</i> , 2010, 23, 42-57.	0.5	53
88	Mount Etna's bleached volcanism caused by rollback-induced upper mantle upwelling around the Ionian slab edge: An alternative to the plume model. <i>Geology</i> , 2010, 38, 691-694.	2.0	64
89	Horizontal and vertical zoning of heterogeneities in the Hawaiian mantle plume from the geochemistry of consecutive postshield volcano pairs: Kohala-Mahukona and Mauna Kea-Hualalai. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	1.0	54
90	Toward an explanation for the present and past locations of the poles. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	1.0	58
91	A narrow, mid-mantle plume below southern Africa. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	22

#	ARTICLE	IF	CITATIONS
92	Melt-induced seismic anisotropy and magma assisted rifting in Ethiopia: Evidence from surface waves. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	1.0	111
93	Apparent decoupling of the He and Ne isotope systematics of the Icelandic mantle: The role of He depletion, melt mixing, degassing fractionation and air interaction. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 3307-3332.	1.6	71
94	Geochemical constraints on depth of origin of oceanic carbonatites: The Cape Verde case. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 7261-7282.	1.6	40
95	Noble gas and carbon isotopic signatures of Cape Verde oceanic carbonatites: Implications for carbon provenance. <i>Earth and Planetary Science Letters</i> , 2010, 291, 70-83.	1.8	41
96	Recent off-axis volcanism in the eastern Gulf of Aden: Implications for plume-ridge interaction. <i>Earth and Planetary Science Letters</i> , 2010, 293, 140-153.	1.8	72
97	Deep mantle plumes and convective upwelling beneath the Pacific Ocean. <i>Earth and Planetary Science Letters</i> , 2010, 294, 143-151.	1.8	33
98	The influence of small-scale mantle heterogeneities on Mid-Ocean Ridge volcanism: Evidence from the southern Mid-Atlantic Ridge (7°30'N to 11°30'N) and Ascension Island. <i>Earth and Planetary Science Letters</i> , 2010, 296, 299-310.	1.8	51
99	The fate of the slabs interacting with a density/viscosity hill in the mid-mantle. <i>Physics of the Earth and Planetary Interiors</i> , 2010, 180, 271-282.	0.7	40
100	Variety of plumes and the fate of subducted basaltic crusts. <i>Physics of the Earth and Planetary Interiors</i> , 2010, 183, 366-375.	0.7	8
101	Convergent plate margin dynamics: New perspectives from structural geology, geophysics and geodynamic modelling. <i>Tectonophysics</i> , 2010, 483, 4-19.	0.9	46
102	Age and geochemistry of volcanic rocks from the Hikurangi and Manihiki oceanic Plateaus. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 7196-7219.	1.6	140
103	A model for osmium isotopic evolution of metallic solids at the core-mantle boundary. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, .	1.0	19
104	Structure of North American mantle constrained by simultaneous inversion of multiple-frequency SH, SS, and Love waves. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	48
105	Mantle transition zone variations beneath the Ethiopian Rift and Afar: Chemical heterogeneity within a hot mantle?. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	28
106	Lithospheric control on the spatial pattern of Azores hotspot seafloor anomalies: Constraints from a model of plume-triple junction interaction. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	8
107	Helium isotopes at Rungwe Volcanic Province, Tanzania, and the origin of East African Plateaux. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	67
108	A statistical boundary layer model for the mantle D ³ region. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	16
109	Joint Receiver Function/ScS Reverberation Analysis for Examining Discontinuity Structure beneath Ocean Islands. <i>Bulletin of the Seismological Society of America</i> , 2011, 101, 908-914.	1.1	3

#	ARTICLE	IF	CITATIONS
110	Role of the deep mantle in generating the compositional asymmetry of the Hawaiian mantle plume. <i>Nature Geoscience</i> , 2011, 4, 831-838.	5.4	195
111	On predicting mantle mushroom plumes. <i>Geoscience Frontiers</i> , 2011, 2, 223-235.	4.3	8
112	Young volcanism in the Borborema Province, NE Brazil, shows no evidence for a trace of the Fernando de Noronha plume on the continent. <i>Earth and Planetary Science Letters</i> , 2011, 302, 38-50.	1.8	64
113	Mantle plumes and associated flow beneath Arabia and East Africa. <i>Earth and Planetary Science Letters</i> , 2011, 302, 448-454.	1.8	182
114	Mantle P-wave velocity structure beneath the Hawaiian hotspot. <i>Earth and Planetary Science Letters</i> , 2011, 303, 267-280.	1.8	64
115	Age and geochemistry of the oceanic Manihiki Plateau, SW Pacific: New evidence for a plume origin. <i>Earth and Planetary Science Letters</i> , 2011, 304, 135-146.	1.8	99
116	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?. <i>Earth and Planetary Science Letters</i> , 2011, 306, 86-97.	1.8	80
117	Synthetic images of dynamically predicted plumes and comparison with a global tomographic model. <i>Earth and Planetary Science Letters</i> , 2011, 311, 351-363.	1.8	28
118	Bent-shaped plumes and horizontal channel flow beneath the 660 km discontinuity. <i>Earth and Planetary Science Letters</i> , 2011, 312, 348-359.	1.8	42
119	Plate Tectonics, the Wilson Cycle, and Mantle Plumes: Geodynamics from the Top. <i>Annual Review of Earth and Planetary Sciences</i> , 2011, 39, 1-29.	4.6	128
120	Geological evolution of a complex basaltic stratovolcano: Mount Etna, Italy. <i>Italian Journal of Geosciences</i> , 2011, , 306-317.	0.4	33
122	Lithosphere-asthenosphere interaction beneath Ireland from joint inversion of teleseismic P-wave delay times and GRACE gravity. <i>Geophysical Journal International</i> , 2011, 184, 1379-1396.	1.0	16
123	Solving or resolving global tomographic models with spherical wavelets, and the scale and sparsity of seismic heterogeneity. <i>Geophysical Journal International</i> , 2011, 187, 969-988.	1.0	83
124	Seismic, petrological and geodynamical constraints on thermal and compositional structure of the upper mantle: global thermochemical models. <i>Geophysical Journal International</i> , 2011, 187, 1301-1318.	1.0	50
125	Insights into extensional processes during magma assisted rifting: Evidence from aligned scoria cones. <i>Journal of Volcanology and Geothermal Research</i> , 2011, 201, 83-96.	0.8	79
126	Plume-subduction interaction in southern Central America: Mantle upwelling and slab melting. <i>Lithos</i> , 2011, 121, 117-134.	0.6	116
127	Supercontinents, mantle dynamics and plate tectonics: A perspective based on conceptual vs. numerical models. <i>Earth-Science Reviews</i> , 2011, 105, 1-24.	4.0	109
128	Dynamic subsidence of Eastern Australia during the Cretaceous. <i>Gondwana Research</i> , 2011, 19, 372-383.	3.0	45

#	ARTICLE	IF	CITATIONS
129	Hafnium isotopic variations in East Atlantic intraplate volcanism. Contributions To Mineralogy and Petrology, 2011, 162, 21-36.	1.2	28
130	Geochemistry and geochronology of the mafic lavas from the southeastern Ethiopian rift (the East Tj ETQq1 1 0.784314 rgBT /Overlo plume evolution. Contributions To Mineralogy and Petrology, 2011, 162, 209-230.	1.2	25
131	Palaeoposition of the Seychelles microcontinent in relation to the Deccan Traps and the Plume Generation Zone in Late Cretaceous-Early Palaeogene time. Geological Society Special Publication, 2011, 357, 229-252.	0.8	40
132	Towards a better understanding of African topography: a review of passive-source seismic studies of the African crust and upper mantle. Geological Society Special Publication, 2011, 357, 343-371.	0.8	67
133	The Ethiopia Afar Geoscientific Lithospheric Experiment (EAGLE): Probing the transition from continental rifting to incipient seafloor spreading. , 2011, , .		34
134	Temperature, Pressure, and Composition of the Mantle Source Region of Late Cenozoic Basalts in Hainan Island, SE Asia: a Consequence of a Young Thermal Mantle Plume close to Subduction Zones?. Journal of Petrology, 2012, 53, 177-233.	1.1	207
135	Chronology and Geochemistry of Lavas from the Nazca Ridge and Easter Seamount Chain: an ~ 30 Myr Hotspot Record. Journal of Petrology, 2012, 53, 1417-1448.	1.1	39
136	Mantle Transition Zone Structure Beneath Hainan and Adjacent Areas Derived from Receiver Function Analysis. Chinese Journal of Geophysics, 2012, 55, 658-665.	0.2	14
137	Comparison of ray- and adjoint-based sensitivity kernels for body-wave seismic tomography. Geophysical Research Letters, 2012, 39, .	1.5	11
138	Geochemical temporal evolution of Brava Island magmatism: Constraints on the variability of Cape Verde mantle sources and on carbonate-silicate magma link. Chemical Geology, 2012, 334, 44-61.	1.4	34
139	A review of Australia's Large Igneous Provinces and associated mineral systems: Implications for mantle dynamics through geological time. Ore Geology Reviews, 2012, 48, 2-54.	1.1	82
140	A shear wave velocity model of the European upper mantle from automated inversion of seismic shear and surface waveforms. Geophysical Journal International, 2012, 191, 282-304.	1.0	90
141	Seismic waveform sensitivity to global boundary topography. Geophysical Journal International, 2012, 191, 832-848.	1.0	15
142	Plume's buoyancy and heat fluxes from the deep mantle estimated by an instantaneous mantle flow simulation based on the S40RTS global seismic tomography model. Physics of the Earth and Planetary Interiors, 2012, 210-211, 63-74.	0.7	10
143	Passive-margin prolonged volcanism, East Australian Plate: outbursts, progressions, plate controls and suggested causes. Australian Journal of Earth Sciences, 2012, 59, 983-1005.	0.4	41
144	Neotectonic crustal uplifts as a consequence of mantle fluid infiltration into the lithosphere. Russian Geology and Geophysics, 2012, 53, 566-582.	0.3	18
145	Seismic imaging: From classical to adjoint tomography. Tectonophysics, 2012, 566-567, 31-66.	0.9	105
146	Absolute plate motions in a reference frame defined by moving hot spots in the Pacific, Atlantic, and Indian oceans. Journal of Geophysical Research, 2012, 117, .	3.3	252

#	ARTICLE	IF	CITATIONS
147	Mantle structure beneath Africa and Arabia from adaptively parameterized P-wave tomography: Implications for the origin of Cenozoic Afro-Arabian tectonism. <i>Earth and Planetary Science Letters</i> , 2012, 319-320, 23-34.	1.8	134
148	OsHf isotopic insight into mantle plume dynamics beneath the East African Rift System. <i>Chemical Geology</i> , 2012, 320-321, 66-79.	1.4	32
149	Shallow lithospheric contribution to mantle plumes revealed by integrating seismic and geochemical data. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	1.0	15
150	The size of plume heterogeneities constrained by Marquesas isotopic stripes. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	1.0	50
151	Melt infiltration of the lower lithosphere beneath the Tanzania craton and the Albertine rift inferred from S receiver functions. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	1.0	72
152	On the location of hotspots in the framework of mantle convection. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	11
153	Primary and secondary processes constraining the noble gas isotopic signatures of carbonatites and silicate rocks from Brava Island: evidence for a lower mantle origin of the Cape Verde plume. <i>Contributions To Mineralogy and Petrology</i> , 2012, 163, 995-1009.	1.2	18
154	Possible layering of mantle convection at the top of the Iceland Hotspot: a crosscheck between 3-D numerical models and gravimetric, seismic and petrological data. <i>Geophysical Journal International</i> , 2012, 188, 35-60.	1.0	3
155	Synthetic seismograms for a synthetic Earth: long-period P- and S-wave traveltime variations can be explained by temperature alone. <i>Geophysical Journal International</i> , 2012, 188, 1393-1412.	1.0	58
156	Spatial distribution of seismic layer, crustal thickness, and Vp/Vs ratio in the Permian Emeishan Mantle Plume region. <i>Gondwana Research</i> , 2012, 22, 127-139.	3.0	38
157	Imaging mantle plumes with instantaneous phase measurements of diffracted waves. <i>Geophysical Journal International</i> , 2012, 190, 650-664.	1.0	45
158	Constraints on the structure of Maio Island (Cape Verde) by a three-dimensional gravity model: imaging partially exhumed magma chambers. <i>Geophysical Journal International</i> , 2012, 190, 931-940.	1.0	16
159	Relative arrival-time upper-mantle tomography and the elusive background mean. <i>Geophysical Journal International</i> , 2012, 190, 1271-1278.	1.0	48
160	Could the mantle have caused subsidence of the Congo Basin?. <i>Tectonophysics</i> , 2012, 514-517, 62-80.	0.9	32
161	Magmatic switch-on and switch-off along the South China continental margin since the Permian: Transition from an Andean-type to a Western Pacific-type plate boundary. <i>Tectonophysics</i> , 2012, 532-535, 271-290.	0.9	307
162	Global seismic tomography with sparsity constraints: Comparison with smoothing and damping regularization. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 4887-4899.	1.4	35
163	Gondwana from top to base in space and time. <i>Gondwana Research</i> , 2013, 24, 999-1030.	3.0	476
164	A composite, isotopically-depleted peridotite and enriched pyroxenite source for Madeira magmas: Insights from olivine. <i>Lithos</i> , 2013, 170-171, 224-238.	0.6	19

#	ARTICLE	IF	CITATIONS
165	The tectonic evolution of the Arctic since Pangea breakup: Integrating constraints from surface geology and geophysics with mantle structure. <i>Earth-Science Reviews</i> , 2013, 124, 148-183.	4.0	153
166	New Features in the Subsurface Structure Model of El Hierro Island (Canaries) from Low-Frequency Microseismic Sounding: An Insight into the 2011 Seismo-Volcanic Crisis. <i>Surveys in Geophysics</i> , 2013, 34, 463-489.	2.1	35
167	Dynamics of plumes in a compressible mantle with phase changes: Implications for phase boundary topography. <i>Physics of the Earth and Planetary Interiors</i> , 2013, 224, 21-31.	0.7	16
168	Geochemical heterogeneities within the Crozet hotspot. <i>Earth and Planetary Science Letters</i> , 2013, 376, 126-136.	1.8	37
169	The Analysis and Interpretation of Noble Gases in Modern Hydrothermal Systems. <i>Advances in Isotope Geochemistry</i> , 2013, , 249-317.	1.4	60
170	The effect of thermal weakening and buoyancy forces on rift localization: Field evidences from the Gulf of Aden oblique rifting. <i>Tectonophysics</i> , 2013, 607, 80-97.	0.9	34
171	⁴⁰ Ar/ ³⁹ Ar Geochronology of Subaerial Ascension Island and a Re-evaluation of the Temporal Progression of Basaltic to Rhyolitic Volcanism. <i>Journal of Petrology</i> , 2013, 54, 2581-2596.	1.1	20
172	Mantle dynamics and characteristics of the Azores plateau. <i>Earth and Planetary Science Letters</i> , 2013, 362, 258-271.	1.8	23
173	Large Igneous Provinces (Xiongâ€™er, Dashigou, 827ÂMa Event, Tarim, Emeishan) and the Yanshanian Tectono-thermal Event of Eastern China. , 2013, , 547-638.		3
174	Climatically influenced denudation rates of the southern African plateau: Clues to solving a geomorphic paradox. <i>Geomorphology</i> , 2013, 190, 48-60.	1.1	42
175	Seismic evidence of a regional sublithospheric low velocity layer beneath the Canary Islands. <i>Tectonophysics</i> , 2013, 608, 586-599.	0.9	36
176	Implications for the origin of Hawaiian volcanism from a converted wave analysis of the mantle transition zone. <i>Earth and Planetary Science Letters</i> , 2013, 373, 194-204.	1.8	18
177	Seismic imaging of the deep structure under the Chinese volcanoes: An overview. <i>Physics of the Earth and Planetary Interiors</i> , 2013, 224, 104-123.	0.7	90
178	Identification of an ancient mantle reservoir and young recycled materials in the source region of a young mantle plume: Implications for potential linkages between plume and plate tectonics. <i>Earth and Planetary Science Letters</i> , 2013, 377-378, 248-259.	1.8	134
179	The P and S wave velocity structure of the mantle beneath eastern Africa and the African superplume anomaly. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 2696-2715.	1.0	54
180	Rifting, lithosphere breakup and volcanism: Comparison of magma-poor and volcanic rifted margins. <i>Marine and Petroleum Geology</i> , 2013, 43, 63-87.	1.5	416
181	Middle Mantle Seismic Structure of the African Superplume. <i>Pure and Applied Geophysics</i> , 2013, 170, 845-861.	0.8	2
182	Deciphering an Archean mantle plume: Abitibi greenstone belt, Canada. <i>Gondwana Research</i> , 2013, 23, 493-505.	3.0	48

#	ARTICLE	IF	CITATIONS
183	A new driving mechanism for backarc extension and backarc shortening through slab sinking induced toroidal and poloidal mantle flow: Results from dynamic subduction models with an overriding plate. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 3221-3248.	1.4	138
184	Study of the western edge of the African Large Low Shear Velocity Province. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 3109-3125.	1.0	23
185	Seismic anisotropy surrounding South China Sea and its geodynamic implications. <i>Marine Geophysical Researches</i> , 2013, 34, 407-429.	0.5	13
186	An objective rationale for the choice of regularisation parameter with application to global multiple-frequency λ - μ -wave tomography. <i>Solid Earth</i> , 2013, 4, 357-371.	1.2	17
187	70 Ma chemical zonation of the Tristan-Gough hotspot track. <i>Geology</i> , 2013, 41, 335-338.	2.0	72
188	The links between large igneous provinces, continental break-up and environmental change: evidence reviewed from Antarctica. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 2013, 104, 17-30.	0.3	44
190	Caveats on tomographic images. <i>Terra Nova</i> , 2013, 25, 259-281.	0.9	94
191	High-pressure, high-temperature deformation of CaGeO_3 (perovskite) \pm MgO aggregates: Implications for multiphase rheology of the lower mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 3389-3408.	1.0	25
192	Origin of hotspots in the South Pacific: Recent advances in seismological and geochemical models. <i>Geochemical Journal</i> , 2013, 47, 259-284.	0.5	12
193	Lithological structure of the Galápagos Plume. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 4214-4240.	1.0	33
194	Modeling 3σ density distribution in the mantle from inversion of geoid anomalies: Application to the Yellowstone Province. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 6328-6351.	1.4	18
195	The role of harzburgite layers in the morphology of subducting plates and the behavior of oceanic crustal layers. <i>Geophysical Research Letters</i> , 2013, 40, 5387-5392.	1.5	12
196	Seismic evidence for an 850 km thick low-velocity structure in the Earth's lowermost mantle beneath Kamchatka. <i>Geophysical Research Letters</i> , 2014, 41, 7073-7079.	1.5	12
197	Investigating volcanic hazard in Cape Verde Islands through geophysical monitoring: network description and first results. <i>Natural Hazards and Earth System Sciences</i> , 2014, 14, 485-499.	1.5	46
198	Large Igneous Provinces. , 2014, , .		0
199	Constraining the age and origin of the seamount province in the Northeast Indian Ocean using geophysical techniques. <i>Marine Geophysical Researches</i> , 2014, 35, 395-417.	0.5	3
200	Diapir (Mantle). , 2014, , 1-6.		0
201	Seismic evidence for a mantle plume beneath the Cape Verde hotspot. <i>International Geology Review</i> , 2014, 56, 1213-1225.	1.1	20

#	ARTICLE	IF	CITATIONS
202	Plume-plate interaction. Canadian Journal of Earth Sciences, 2014, 51, 208-221.	0.6	10
203	On the origin of recent intraplate volcanism in Australia. Geology, 2014, 42, 1031-1034.	2.0	97
204	Trace element and Sr-Nd-Pb isotope geochemistry of Rungwe Volcanic Province, Tanzania: implications for a Superplume source for East Africa Rift magmatism. Frontiers in Earth Science, 2014, 2, .	0.8	25
205	Multiple felsic events within post-10 Ma volcanism, Southeast Australia: inputs in appraising proposed magmatic models. Australian Journal of Earth Sciences, 2014, 61, 241-267.	0.4	16
206	Seamounts off the West Antarctic margin: A case for non-hotspot driven intraplate volcanism. Gondwana Research, 2014, 25, 1660-1679.	3.0	38
207	Mantle origin of the Emeishan large igneous province (South China) from the analysis of residual gravity anomalies. Lithos, 2014, 204, 4-13.	0.6	38
208	Ascent modes of jets and plumes in a stationary fluid of contrasting viscosity. International Journal of Multiphase Flow, 2014, 63, 1-10.	1.6	5
209	The late Mesozoic-Cenozoic tectonic evolution of the South China Sea: A petrologic perspective. Journal of Asian Earth Sciences, 2014, 85, 178-201.	1.0	181
210	Rifting, intraplate magmatism, mineral systems and mantle dynamics in central-east Eurasia: An overview. Ore Geology Reviews, 2014, 63, 265-295.	1.1	57
211	A statistical analysis of the correlation between large igneous provinces and lower mantle seismic structure. Geophysical Journal International, 2014, 197, 1-9.	1.0	66
212	4D Arctic: A Glimpse into the Structure and Evolution of the Arctic in the Light of New Geophysical Maps, Plate Tectonics and Tomographic Models. Surveys in Geophysics, 2014, 35, 1095-1122.	2.1	70
213	Imaging the Antarctic mantle using adaptively parameterized P-wave tomography: Evidence for heterogeneous structure beneath West Antarctica. Earth and Planetary Science Letters, 2014, 408, 66-78.	1.8	76
214	Recent plate re-organization at the Azores Triple Junction: Evidence from combined geochemical and geochronological data on Faial, S. Jorge and Terceira volcanic islands. Lithos, 2014, 210-211, 27-39.	0.6	68
215	P- and S-wave tomography of the Hainan and surrounding regions: Insight into the Hainan plume. Tectonophysics, 2014, 633, 176-192.	0.9	67
216	The development of magmatism along the Cameroon Volcanic Line: Evidence from seismicity and seismic anisotropy. Journal of Geophysical Research: Solid Earth, 2014, 119, 4233-4252.	1.4	55
217	Hotspot swells revisited. Physics of the Earth and Planetary Interiors, 2014, 235, 66-83.	0.7	88
218	Seismic Tomography and the Assessment of Uncertainty. Advances in Geophysics, 2014, , 1-76.	1.1	111
219	Global S-wave tomography using receiver pairs: an alternative to get rid of earthquake mislocation. Geophysical Journal International, 2014, 199, 1043-1057.	1.0	2

#	ARTICLE	IF	CITATIONS
220	The role of eclogite in the mantle heterogeneity at Cape Verde. Contributions To Mineralogy and Petrology, 2014, 168, 1.	1.2	9
221	The final rifting evolution in the South China Sea. Marine and Petroleum Geology, 2014, 58, 704-720.	1.5	255
222	A new conceptual model for whole mantle convection and the origin of hotspot plumes. Journal of Geodynamics, 2014, 78, 32-41.	0.7	13
223	Geodynamic modeling of the South Pacific superswell. Physics of the Earth and Planetary Interiors, 2014, 229, 24-39.	0.7	28
224	Crustal and upper mantle structure beneath southâ€western margin of the Arabian Peninsula from teleseismic tomography. Geochemistry, Geophysics, Geosystems, 2014, 15, 2850-2864.	1.0	20
225	Mantle transition zone discontinuities beneath the contiguous United States. Journal of Geophysical Research: Solid Earth, 2014, 119, 6452-6468.	1.4	83
226	Multiple mantle upwellings in the transition zone beneath the northern <i>E</i> - <i>A</i> frican <i>R</i> ift system from relative <i>P</i> -wave travelâ€time tomography. Geochemistry, Geophysics, Geosystems, 2015, 16, 2949-2968.	1.0	52
227	A twoâ€way interaction between the Hainan plume and the Manila subduction zone. Geophysical Research Letters, 2015, 42, 5796-5802.	1.5	17
228	<i>P</i> wave tomography and anisotropy beneath Southeast Asia: Insight into mantle dynamics. Journal of Geophysical Research: Solid Earth, 2015, 120, 5154-5174.	1.4	110
229	Hydration of marginal basins and compositional variations within the continental lithospheric mantle inferred from a new global model of shear and compressional velocity. Journal of Geophysical Research: Solid Earth, 2015, 120, 7789-7813.	1.4	45
230	Magmatic water contents determined through clinopyroxene: Examples from the <i>W</i> estern <i>C</i> anary <i>I</i> slands, <i>S</i> pain. Geochemistry, Geophysics, Geosystems, 2015, 16, 2127-2146.	1.0	45
231	What processes control the chemical compositions of arc front stratovolcanoes?. Geochemistry, Geophysics, Geosystems, 2015, 16, 1865-1893.	1.0	98
232	Hydrous upwelling across the mantle transition zone beneath the Afar Triple Junction. Geochemistry, Geophysics, Geosystems, 2015, 16, 834-846.	1.0	39
233	Volcanic and structural evolution of Pico do Fogo, Cape Verde. Geology Today, 2015, 31, 146-152.	0.3	15
234	Biostratigraphic evidence for dramatic Holocene uplift of Robinson Crusoe Island, Juan FernÃ¡ndez Ridge, SE Pacific Ocean. Biogeosciences, 2015, 12, 1993-2001.	1.3	8
235	Theory and Observations: Body Waves, Ray Methods, and Finite-Frequency Effects. , 2015, , 169-200.		4
236	Theory and Observations - Seismic Tomography and Inverse Methods. , 2015, , 307-337.		7
237	Hotspots and Mantle Plumes. , 2015, , 139-184.		1

#	ARTICLE	IF	CITATIONS
238	On the validation of seismic imaging methods: Finite frequency or ray theory?. <i>Geophysical Research Letters</i> , 2015, 42, 323-330.	1.5	23
239	Importance of initial buoyancy field on evolution of mantle thermal structure: Implications of surface boundary conditions. <i>Geoscience Frontiers</i> , 2015, 6, 3-22.	4.3	12
240	Intracontinental anorogenic alkaline magmatism and carbonatites, associated mineral systems and the mantle plume connection. <i>Gondwana Research</i> , 2015, 27, 1181-1216.	3.0	104
241	Geochemistry and petrogenesis of volcanic rocks from Daimao Seamount (South China Sea) and their tectonic implications. <i>Lithos</i> , 2015, 218-219, 117-126.	0.6	62
242	Tides as drivers of plates and criticism of mantle convection. <i>Acta Geodaetica Et Geophysica</i> , 2015, 50, 271-293.	0.7	6
243	The tectonic evolution of the southeastern Terceira Rift/São Miguel region (Azores). <i>Tectonophysics</i> , 2015, 654, 75-95.	0.9	31
244	Mantle plume–subduction zone interactions over the past 60 Ma. <i>Lithos</i> , 2015, 233, 162-173.	0.6	22
245	Characterization of the sub-continental lithospheric mantle beneath the Cameroon volcanic line inferred from alkaline basalt hosted peridotite xenoliths from Barombi Mbo and Nyos Lakes. <i>Journal of African Earth Sciences</i> , 2015, 111, 170-193.	0.9	28
246	Hotspots, Large Igneous Provinces, and Melting Anomalies. , 2015, , 393-459.		13
247	Basalt distribution and volume estimates of Cenozoic volcanism in the Bowen Basin region of eastern Australia: Implications for a waning mantle plume. <i>Australian Journal of Earth Sciences</i> , 2015, 62, 255-263.	0.4	23
248	On the role of thermal heterogeneities on the rheology of MgO under conditions of the Earth's lower mantle. <i>Physics of the Earth and Planetary Interiors</i> , 2015, 242, 1-8.	0.7	4
249	Interactions between continent-like “drift”, rifting and mantle flow on Venus: gravity interpretations and Earth analogues. <i>Geological Society Special Publication</i> , 2015, 401, 327-356.	0.8	26
250	Seismic evidence for an Iceland thermo-chemical plume in the Earth's lowermost mantle. <i>Earth and Planetary Science Letters</i> , 2015, 417, 19-27.	1.8	19
251	Post-rift tectonic reactivation and its effect on deep-water deposits in the Qiongdongnan Basin, northwestern South China Sea. <i>Marine Geophysical Researches</i> , 2015, 36, 227-242.	0.5	29
252	Mantle plume characteristics in three-dimensional depth- and temperature-dependent models. <i>Acta Geodaetica Et Geophysica</i> , 2015, 50, 403-417.	0.7	0
253	Heterogeneity of Electrical Conductivity in the Oceanic Upper Mantle. , 2015, , 173-204.		7
254	Upper crustal structure of Madeira Island revealed from ambient noise tomography. <i>Journal of Volcanology and Geothermal Research</i> , 2015, 298, 136-145.	0.8	18
255	The global chemical systematics of arc front stratovolcanoes: Evaluating the role of crustal processes. <i>Earth and Planetary Science Letters</i> , 2015, 422, 182-193.	1.8	138

#	ARTICLE	IF	CITATIONS
256	Earth's Volcanoes and Their Eruptions: An Overview. , 2015, , 239-255.		39
257	Joint inversion of normal-mode and finite-frequency <i>S</i> -wave data using an irregular tomographic grid. <i>Geophysical Journal International</i> , 2015, 203, 1665-1681.	1.0	12
258	Isotopes, DUPAL, LLSVPs, and Anekantavada. <i>Chemical Geology</i> , 2015, 419, 10-28.	1.4	105
259	Influence of subduction history on South American topography. <i>Earth and Planetary Science Letters</i> , 2015, 430, 9-18.	1.8	67
260	Mantle structure and tectonic history of SE Asia. <i>Tectonophysics</i> , 2015, 658, 14-45.	0.9	253
261	Upper mantle and transition zone structure beneath Leizhou Hainan region: Seismic evidence for a lower-mantle origin of the Hainan plume. <i>Journal of Asian Earth Sciences</i> , 2015, 111, 580-588.	1.0	10
262	Lithospheric controls on magma composition along Earth's longest continental hotspot track. <i>Nature</i> , 2015, 525, 511-514.	13.7	125
263	Late Mesozoic-Cenozoic intraplate magmatism in Central Asia and its relation with mantle diapirism: Evidence from the South Khangai volcanic region, Mongolia. <i>Journal of Asian Earth Sciences</i> , 2015, 111, 604-623.	1.0	38
264	Multifrequency measurements of core-diffracted <i>P</i> -waves (<i>P</i> _{diff}) for global waveform tomography. <i>Geophysical Journal International</i> , 2015, 203, 506-521.	1.0	34
265	Broad plumes rooted at the base of the Earth's mantle beneath major hotspots. <i>Nature</i> , 2015, 525, 95-99.	13.7	630
266	On the relationship between volcanic hotspot locations, the reconstructed eruption sites of large igneous provinces and deep mantle seismic structure. <i>Earth and Planetary Science Letters</i> , 2015, 411, 121-130.	1.8	71
267	Topography of upper mantle seismic discontinuities beneath the North Atlantic: The Azores, Canary and Cape Verde plumes. <i>Earth and Planetary Science Letters</i> , 2015, 409, 193-202.	1.8	52
268	Cocos Plate Seamounts offshore NW Costa Rica and SW Nicaragua: Implications for large-scale distribution of Galapagos plume material in the upper mantle. <i>Lithos</i> , 2015, 212-215, 214-230.	0.6	6
269	Lowermost Mantle Velocity Estimations Beneath the Central North Atlantic Area from <i>P</i> _{dif} Observed at Balkan, East Mediterranean, and American Stations. <i>Pure and Applied Geophysics</i> , 2015, 172, 283-293.	0.8	2
271	Using slowness and azimuth fluctuations as new observables for four-dimensional reservoir seismic monitoring. <i>Geophysical Prospecting</i> , 2016, 64, 1537-1555.	1.0	2
272	A failure to reject: Testing the correlation between large igneous provinces and deep mantle structures with EDF statistics. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 1130-1163.	1.0	60
273	Role of source-layer tilts in the axi-asymmetric growth of diapirs triggered by a Rayleigh-Taylor instability. <i>Geophysical Journal International</i> , 2016, 206, 1814-1830.	1.0	9
274	New data on the composition of products of quaternary volcanism at the northwestern margin of the South China Sea shelf zone and the problem of asthenospheric diapirism. <i>Russian Journal of Pacific Geology</i> , 2016, 10, 79-104.	0.1	3

#	ARTICLE	IF	CITATIONS
276	Physicochemical parameters of deep-seated mantle plumes. <i>Russian Geology and Geophysics</i> , 2016, 57, 687-697.	0.3	3
277	Hot Spots and Mantle Plumes. <i>Encyclopedia of Earth Sciences Series</i> , 2016, , 316-327.	0.1	1
278	Cenozoic magmatism in the northern continental margin of the South China Sea: evidence from seismic profiles. <i>Marine Geophysical Researches</i> , 2016, 37, 71-94.	0.5	34
279	Seismic tomographic evidence for upwelling mantle plume in NE China. <i>Physics of the Earth and Planetary Interiors</i> , 2016, 254, 37-45.	0.7	12
280	Major disruption of D ⁴³ beneath Alaska. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 3534-3556.	1.4	26
281	Global correlation of lower mantle structure and past subduction. <i>Geophysical Research Letters</i> , 2016, 43, 4945-4953.	1.5	68
282	Teleseismic imaging of the mantle beneath southernmost China: New insights into the Hainan plume. <i>Gondwana Research</i> , 2016, 36, 46-56.	3.0	105
283	Observations of the azimuthal dependence of normal mode coupling below 4 mHz at the South Pole and its nearby stations: Insights into the anisotropy beneath the Transantarctic Mountains. <i>Physics of the Earth and Planetary Interiors</i> , 2016, 257, 57-78.	0.7	2
284	Mantle plumes in the vicinity of subduction zones. <i>Earth and Planetary Science Letters</i> , 2016, 454, 166-177.	1.8	24
285	Full-waveform inversion of the Japanese Islands region. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 3722-3741.	1.4	49
286	Geodynamic investigation of a Cretaceous superplume in the Pacific ocean. <i>Physics of the Earth and Planetary Interiors</i> , 2016, 257, 137-148.	0.7	2
287	Magmatic Activity on a Motionless Plate: the Case of East Island, Crozet Archipelago (Indian Ocean). <i>Journal of Petrology</i> , 2016, 57, 1409-1436.	1.1	11
288	Dynamics of plume-triple junction interaction: Results from a series of three-dimensional numerical models and implications for the formation of oceanic plateaus. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 1316-1342.	1.4	13
289	Evaluation of late Permian mafic magmatism in the central Tibetan Plateau as a response to plume-subduction interaction. <i>Lithos</i> , 2016, 264, 1-16.	0.6	25
290	Mantle plumes beneath the South Pacific superswell revealed by finite frequency <i>P</i> tomography using regional seafloor and island data. <i>Geophysical Research Letters</i> , 2016, 43, 11,628.	1.5	16
291	Spawning superplumes from the midmantle: The impact of spin transitions in the mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 4051-4063.	1.0	6
292	Tectonic evolution and deep mantle structure of the eastern Tethys since the latest Jurassic. <i>Earth-Science Reviews</i> , 2016, 162, 293-337.	4.0	151
293	Landscape evolution in Africa during the Cenozoic and Quaternary—the legacy and limitations of Lester C. King. <i>Canadian Journal of Earth Sciences</i> , 2016, 53, 1089-1102.	0.6	17

#	ARTICLE	IF	CITATIONS
294	Os isotopic constraints on crustal contamination in Auckland Volcanic Field basalts, New Zealand. <i>Chemical Geology</i> , 2016, 439, 83-97.	1.4	12
295	Formation and evolution of Shatsky Rise oceanic plateau: Insights from IODP Expedition 324 and recent geophysical cruises. <i>Earth-Science Reviews</i> , 2016, 159, 306-336.	4.0	54
296	Depressed mantle discontinuities beneath Iceland: Evidence of a garnet controlled 660 km discontinuity?. <i>Earth and Planetary Science Letters</i> , 2016, 433, 159-168.	1.8	57
297	Crustal structure and high-resolution Moho topography across the Rwenzori region (Albertine rift) from P-receiver functions. <i>Geological Society Special Publication</i> , 2016, 420, 69-82.	0.8	8
298	Dynamics and excess temperature of a plume throughout its life cycle. <i>Geophysical Journal International</i> , 2016, 205, 1574-1588.	1.0	2
299	The Mantle. , 2016, , 89-133.		1
301	Earth evolution and dynamicsâ€”a tribute to Kevin Burke. <i>Canadian Journal of Earth Sciences</i> , 2016, 53, 1073-1087.	0.6	60
302	Origin of enriched components in the South Atlantic: Evidence from 40 Ma geochemical zonation of the Discovery Seamounts. <i>Earth and Planetary Science Letters</i> , 2016, 441, 167-177.	1.8	34
303	Primordial helium entrained by the hottest mantle plumes. <i>Nature</i> , 2017, 542, 340-343.	13.7	88
304	The nature of subslab slow velocity anomalies beneath South America. <i>Geophysical Research Letters</i> , 2017, 44, 4747-4755.	1.5	44
305	Kinematic models for the opening of the South China Sea: An upwelling divergent flow origin. <i>Journal of Geodynamics</i> , 2017, 107, 20-33.	0.7	12
306	Petrogenesis of Late Cenozoic basaltic rocks from southern Vietnam. <i>Lithos</i> , 2017, 272-273, 192-204.	0.6	61
307	Mantle geochemistry: Insights from ocean island basalts. <i>Science China Earth Sciences</i> , 2017, 60, 1976-2000.	2.3	15
308	The role of deep Earth dynamics in driving the flooding and emergence of New Guinea since the Jurassic. <i>Earth and Planetary Science Letters</i> , 2017, 479, 273-283.	1.8	5
309	On the consistency of seismically imaged lower mantle slabs. <i>Scientific Reports</i> , 2017, 7, 10976.	1.6	68
310	The genetic link between the Azores Archipelago and the Southern Azores Seamount Chain (SASC): The elemental, isotopic and chronological evidences. <i>Lithos</i> , 2017, 294-295, 133-146.	0.6	6
311	Riftâ€”plume interaction reveals multiple generations of recycled oceanic crust in Azores lavas. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 218, 132-152.	1.6	26
312	How plumeâ€”ridge interaction shapes the crustal thickness pattern of the <sc>R</sc>Å©union hotspot track. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 2930-2948.	1.0	26

#	ARTICLE	IF	CITATIONS
313	Electrical conductivity of the oceanic asthenosphere and its interpretation based on laboratory measurements. <i>Tectonophysics</i> , 2017, 717, 162-181.	0.9	16
314	Influence of a West Antarctic mantle plume on ice sheet basal conditions. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 7127-7155.	1.4	57
315	Intraoceanic subduction spanned the Pacific in the Late Cretaceous–Paleocene. <i>Science Advances</i> , 2017, 3, eaao2303.	4.7	65
316	Toward Seeing the Earth's Interior Through Unbiased Tomographic Lenses. <i>Geophysical Research Letters</i> , 2017, 44, 11,399.	1.5	24
317	⁴⁰ Ar/ ³⁹ Ar geochronology and volume estimates of the Tasmanid Seamounts: Support for a change in the motion of the Australian plate. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 343, 95-108.	0.8	19
318	The 2014–15 eruption and the short-term geochemical evolution of the Fogo volcano (Cape Verde): Evidence for small-scale mantle heterogeneity. <i>Lithos</i> , 2017, 288-289, 91-107.	0.6	68
319	Metallogeny linked to mantle dynamics in the Sanjiang Tethys region as inferred from P-wave teleseismic tomographic study. <i>Ore Geology Reviews</i> , 2017, 90, 1032-1041.	1.1	2
320	Composition versus temperature induced velocity heterogeneities in a pyrolitic lower mantle. <i>Earth and Planetary Science Letters</i> , 2017, 457, 359-365.	1.8	15
321	Geographic variations in lowermost mantle structure from the ray parameters and decay constants of core-diffracted waves. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 5369-5394.	1.4	11
322	Mantle and geological evidence for a Late Jurassic–Cretaceous suture spanning North America. <i>Bulletin of the Geological Society of America</i> , 0, , .	1.6	28
323	Ultra-low velocity zone heterogeneities at the core–mantle boundary from diffracted PKKPab waves. <i>Earth, Planets and Space</i> , 2017, 69, .	0.9	4
324	Crust and Mantle Structure Beneath the Azores Hotspot—Evidence from Geophysics. <i>Active Volcanoes of the World</i> , 2018, , 71-87.	1.0	7
325	Evidence of hotspot paths below Arabia and the Horn of Africa and consequences on the Red Sea opening. <i>Earth and Planetary Science Letters</i> , 2018, 487, 210-220.	1.8	19
326	SubMachine: Web-Based Tools for Exploring Seismic Tomography and Other Models of Earth's Deep Interior. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 1464-1483.	1.0	113
327	Hainan mantle plume produced late Cenozoic basaltic rocks in Thailand, Southeast Asia. <i>Scientific Reports</i> , 2018, 8, 2640.	1.6	71
328	Fat Plumes May Reflect the Complex Rheology of the Lower Mantle. <i>Geophysical Research Letters</i> , 2018, 45, 1349-1354.	1.5	12
329	Aeromagnetic anomalies reveal the link between magmatism and tectonics during the early formation of the Canary Islands. <i>Scientific Reports</i> , 2018, 8, 42.	1.6	21
330	Unexpected HIMU-type late-stage volcanism on the Walvis Ridge. <i>Earth and Planetary Science Letters</i> , 2018, 492, 251-263.	1.8	34

#	ARTICLE	IF	CITATIONS
331	Seismic attenuation in the African LLSVP estimated from PcS phases. <i>Earth and Planetary Science Letters</i> , 2018, 489, 8-16.	1.8	9
332	Lower-mantle plume beneath the Yellowstone hotspot revealed by core waves. <i>Nature Geoscience</i> , 2018, 11, 280-284.	5.4	69
333	Stagnant lids and mantle overturns: Implications for Archaean tectonics, magmagenesis, crustal growth, mantle evolution, and the start of plate tectonics. <i>Geoscience Frontiers</i> , 2018, 9, 19-49.	4.3	292
334	Understanding transient landscape of the Ethiopian Plateau in relation to mantle dynamics. <i>Geological Journal</i> , 2018, 53, 371-385.	0.6	9
335	Voyage of the Indian subcontinent since Pangea breakup and driving force of supercontinent cycles: Insights on dynamics from numerical modeling. <i>Geoscience Frontiers</i> , 2018, 9, 1279-1292.	4.3	22
336	Formation of mantle â€œlone plumesâ€œ in the global downwelling zone â€œ A multiscale modelling of subduction-controlled plume generation beneath the South China Sea. <i>Tectonophysics</i> , 2018, 723, 1-13.	0.9	34
337	Afar, a Hot-Spot for Earthâ€™s Geodynamics Studies. <i>Regional Geology Reviews</i> , 2018, , 285-293.	1.2	1
338	The Morphology of the Tasmantid Seamounts: Interactions Between Tectonic Inheritance and Magmatic Evolution. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 3870-3891.	1.0	6
339	Mantle plumes and mantle dynamics in the Wilson cycle. <i>Geological Society Special Publication</i> , 2018, , SP470.18.	0.8	5
340	<i>S</i> -Wave Receiver Function Analysis of the Pampean Flatâ€™Slab Region: Evidence for a Torn Slab. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 4021-4034.	1.0	8
341	Exoplanets, Granitoids and Evolutionary Potential. , 2018, , 338-364.		0
342	Predicted path for hotspot tracks off South America since Paleocene times: Tectonic implications of ridge-trench collision along the Andean margin. <i>Gondwana Research</i> , 2018, 64, 216-234.	3.0	46
343	Geochemistry and Distribution of Recycled Domains in the Mantle Inferred From Nd and Pb Isotopes in Oceanic Hot Spots: Implications for Storage in the Large Low Shear Wave Velocity Provinces. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 3496-3519.	1.0	29
344	Mantle Transition Zone Thickness Beneath the Middle East: Evidence for Segmented Tethyan Slabs, Delaminated Lithosphere, and Lower Mantle Upwelling. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 4886-4905.	1.4	28
345	A common deep source for upper-mantle upwellings below the Ibero-western Maghreb region from teleseismic P-wave travel-time tomography. <i>Earth and Planetary Science Letters</i> , 2018, 499, 157-172.	1.8	32
346	Application of Geoid Anomalies to the Tectonic Research in the East Asian Continental Margin. <i>Journal of Ocean University of China</i> , 2018, 17, 811-822.	0.6	1
347	The nature and evolution of mantle upwelling at Ross Island, Antarctica, with implications for the source of HIMU lavas. <i>Earth and Planetary Science Letters</i> , 2018, 498, 38-53.	1.8	42
348	Hafnium isotopic constraints on the origin of late Miocene to Pliocene seamount basalts from the South China Sea and its tectonic implications. <i>Journal of Asian Earth Sciences</i> , 2019, 171, 162-168.	1.0	22

#	ARTICLE	IF	CITATIONS
349	Large Igneous Provinces. , 2019, , 337-345.		2
350	Lower Crustal Heterogeneity and Fractional Crystallization Control Evolution of Small-volume Magma Batches at Ocean Island Volcanoes (Ascension Island, South Atlantic). <i>Journal of Petrology</i> , 2019, 60, 1489-1522.	1.1	12
351	Tracking the Geochemical Transition Between the Kea-Dominated Northwest Hawaiian Ridge and the Bilateral Loa-Kea Trends of the Hawaiian Islands. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 4354-4369.	1.0	15
352	Primitive Helium Is Sourced From Seismically Slow Regions in the Lowermost Mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 4130-4145.	1.0	34
353	Estimating the carbon content of the deep mantle with Icelandic melt inclusions. <i>Earth and Planetary Science Letters</i> , 2019, 523, 115699.	1.8	40
354	Evidence for high temperature in the upper mantle beneath Cape Verde archipelago from Rayleigh-wave phase-velocity measurements. <i>Tectonophysics</i> , 2019, 770, 228225.	0.9	11
355	Lower Mantle Dynamics Perceived With 50 Years of Hindsight From Plate Tectonics. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 5619-5649.	1.0	4
356	Large-scale flow of Indian Ocean asthenosphere driven by Réunion plume. <i>Nature Geoscience</i> , 2019, 12, 1043-1049.	5.4	29
357	Influence of convection regimes of two-layer thermal convection with large viscosity contrast on the thermal and mechanical states at the interface of the two layers: Implications for dynamics in the present-day and past Earth. <i>Physics of Fluids</i> , 2019, 31, 106603.	1.6	4
358	Investigating the seismic structure and visibility of dynamic plume models with seismic array methods. <i>Geophysical Journal International</i> , 2019, 219, S167-S194.	1.0	9
359	Ubiquitous ultra-depleted domains in Earth's mantle. <i>Nature Geoscience</i> , 2019, 12, 851-855.	5.4	52
360	Carbon in the Convecting Mantle. , 2019, , 237-275.		7
361	Southward propagation of Nazca subduction along the Andes. <i>Nature</i> , 2019, 565, 441-447.	13.7	86
362	Subducting slab morphology and mantle transition zone upwelling in double-slab subduction models with inward-dipping directions. <i>Geophysical Journal International</i> , 2019, 218, 2089-2105.	1.0	11
363	Paleomagnetism of Oligocene Hot Spot Volcanics in Central Queensland, Australia. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 6280-6296.	1.4	11
364	Carbon Dioxide in Geochemically Heterogeneous Melt Inclusions From Mount Etna, Italy. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 3150-3169.	1.0	2
365	Convection in an internally heated stratified heterogeneous reservoir. <i>Journal of Fluid Mechanics</i> , 2019, 870, 67-105.	1.4	13
366	Triassic to Middle Jurassic geodynamic evolution of southwestern Gondwana: From a large flat-slab to mantle plume suction in a rollback subduction setting. <i>Earth-Science Reviews</i> , 2019, 194, 125-159.	4.0	74

#	ARTICLE	IF	CITATIONS
367	Petrogenesis of shield volcanism from the Juan Fernandez Ridge, Southeast Pacific: Melting of a low-temperature pyroxenite-bearing mantle plume. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 257, 311-335.	1.6	4
368	Global finite-frequency S-wave delay-times: how much crust matters. <i>Geophysical Journal International</i> , 2019, 218, 1665-1684.	1.0	1
369	Slab Control on the Northeastern Edge of the Mid-Pacific LLSVP Near Hawaii. <i>Geophysical Research Letters</i> , 2019, 46, 3142-3152.	1.5	22
370	Mantle plumes and mantle dynamics in the Wilson cycle. <i>Geological Society Special Publication</i> , 2019, 470, 87-103.	0.8	17
371	Implications of the melting depth and temperature of the Atlantic mid-ocean ridge basalts. <i>Acta Oceanologica Sinica</i> , 2019, 38, 35-42.	0.4	3
372	New age and geochemical data from the Walvis Ridge: The temporal and spatial diversity of South Atlantic intraplate volcanism and its possible origin. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 245, 16-34.	1.6	40
373	Upper Mantle Earth Structure in Africa From Full-Wave Ambient Noise Tomography. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 120-147.	1.0	55
374	Plume-ridge interaction in the South China Sea: Thermometric evidence from Hole U1431E of IODP Expedition 349. <i>Lithos</i> , 2019, 324-325, 466-478.	0.6	35
375	The multiple depleted mantle components in the Hawaiian-Emperor chain. <i>Chemical Geology</i> , 2020, 532, 119324.	1.4	15
376	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. <i>Earth and Planetary Science Letters</i> , 2020, 529, 115864.	1.8	26
377	Intraplate volcanism and mantle dynamics of Mainland China: New constraints from shear-wave tomography. <i>Journal of Asian Earth Sciences</i> , 2020, 188, 104103.	1.0	23
378	Intra-plate volcanism in North Queensland and eastern new Guinea: A cryptic mantle plume?. <i>Gondwana Research</i> , 2020, 79, 209-216.	3.0	6
379	Global mantle structure from multifrequency tomography using P, PP and P-diffracted waves. <i>Geophysical Journal International</i> , 2020, 220, 96-141.	1.0	104
380	Plume Tree Structure Induced by Low-Viscosity Layers in the Upper Mantle. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086508.	1.5	12
381	Seismic wavefield imaging of Earth's interior across scales. <i>Nature Reviews Earth & Environment</i> , 2020, 1, 40-53.	12.2	75
382	Receiver function imaging of the 410 and 660-km discontinuities beneath the Australian continent. <i>Geophysical Journal International</i> , 2020, 220, 1481-1490.	1.0	4
383	Multi-element isotope study of natrocarbonatites (1993 lava flows) from Oldoinyo Lengai volcano, Tanzania: Implications for core-mantle interactions. <i>Journal of African Earth Sciences</i> , 2020, 162, 103725.	0.9	0
384	Southward Drift of Eastern Australian Hotspots in the Paleomagnetic Reference Frame Is Consistent With Global True Polar Wander Estimates. <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	5

#	ARTICLE	IF	CITATIONS
385	Plate tectonics and mantle controls on plume dynamics. <i>Earth and Planetary Science Letters</i> , 2020, 547, 116439.	1.8	27
386	Wave Tomography Beneath Greenland and Surrounding Regions: 2. Lower Mantle. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB019839.	1.4	11
387	3-D scattering of elastic waves by small-scale heterogeneities in the Earth's mantle. <i>Geophysical Journal International</i> , 2020, 223, 502-525.	1.0	13
388	Magma water content of Pico Volcano (Azores Islands, Portugal): a clinopyroxene perspective. <i>Contributions To Mineralogy and Petrology</i> , 2020, 175, 1.	1.2	8
389	The Probability of Mantle Plumes in Global Tomographic Models. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009276.	1.0	10
390	The fumarolic CO ₂ output from Pico do Fogo volcano (Cape Verde). <i>Italian Journal of Geosciences</i> , 2020, 139, 325-340.	0.4	7
391	Petrogenesis of Siletzia: The world's youngest oceanic plateau. <i>Results in Geochemistry</i> , 2020, 1, 100004.	0.3	1
392	The Evolution of Mantle Plumes in East Africa. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB019929.	1.4	27
393	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. <i>Terra Nova</i> , 2020, 32, 390-398.	0.9	12
394	Hotspots and mantle plumes revisited: Towards reconciling the mantle heat transfer discrepancy. <i>Earth and Planetary Science Letters</i> , 2020, 542, 116317.	1.8	25
395	Geodetic evidence for a buoyant mantle plume beneath the Eifel volcanic area, NW Europe. <i>Geophysical Journal International</i> , 2020, 222, 1316-1332.	1.0	38
396	Possible tectonic patterns along the eastern margin of Gondwanaland from numerical studies of mantle convection. <i>Tectonophysics</i> , 2020, 787, 228476.	0.9	2
397	Inversion of Longer-Period OBS Waveforms for P Structures in the Oceanic Lithosphere and Asthenosphere. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018810.	1.4	6
398	Seismic Evidence for a Hot Mantle Transition Zone Beneath the Indian Ocean Geoid Low. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009079.	1.0	12
399	Various Ages of Recycled Material in the Source of Cenozoic Basalts in SE China: Implications for the Role of the Hainan Plume. <i>Journal of Petrology</i> , 2020, 61, .	1.1	8
400	Crustal Structure of the Greenland-Iceland Ridge from Joint Refraction and Reflection Seismic Tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB019847.	1.4	15
401	New Candidate Ultralow-Velocity Zone Locations from Highly Anomalous SPdKS Waveforms. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 211.	0.8	18
402	Plate boundaries and driving mechanisms. , 2020, , 41-59.		2

#	ARTICLE	IF	CITATIONS
403	Geological, geophysical and plate kinematic constraints for models of the India-Asia collision and the post-Triassic central Tethys oceans. <i>Earth-Science Reviews</i> , 2020, 208, 103084.	4.0	75
404	East African topography and volcanism explained by a single, migrating plume. <i>Geoscience Frontiers</i> , 2020, 11, 1669-1680.	4.3	14
405	Post-rift magmatism on the northern South China Sea margin. <i>Bulletin of the Geological Society of America</i> , 2020, 132, 2382-2396.	1.6	21
406	Insights into the petrogenesis of an intraplate volcanic province: Sr-Nd-Pb-Hf isotope geochemistry of the Bathymetrist's Seamount Province, eastern equatorial Atlantic. <i>Chemical Geology</i> , 2020, 544, 119599.	1.4	0
407	Alkaline to tholeiitic magmatism near a mid-ocean ridge: petrogenesis of the KR1 Seamount Trail adjacent to the Australian-Antarctic Ridge. <i>International Geology Review</i> , 2021, 63, 1215-1235.	1.1	4
408	Earth structure. , 2021, , 269-301.		0
409	North-East Atlantic Islands: The Macaronesian Archipelagos. , 2021, , 674-699.		28
410	Deep mantle structure and origin of Cenozoic intraplate volcanoes in Indochina, Hainan and South China Sea. <i>Geophysical Journal International</i> , 2021, 225, 572-588.	1.0	34
411	Noble gas magmatic signature of the Andean Northern Volcanic Zone from fluid inclusions in minerals. <i>Chemical Geology</i> , 2021, 559, 119966.	1.4	8
412	Kinematic and geodynamic evolution of the Isthmus of Panama region: Implications for Central American Seaway closure. <i>Bulletin of the Geological Society of America</i> , 2021, 133, 867-884.	1.6	15
414	Chapter 7.2â€fMount Erebus. <i>Geological Society Memoir</i> , 2021, 55, 695-739.	0.9	15
415	A thin mantle transition zone beneath the equatorial Mid-Atlantic Ridge. <i>Nature</i> , 2021, 589, 562-566.	13.7	24
416	Earthâ€™s Structure, Upper Mantle. <i>Encyclopedia of Earth Sciences Series</i> , 2021, , 183-189.	0.1	0
417	An Overview of the Geochemical Characteristics of Oceanic Carbonatites: New Insights from Fuerteventura Carbonatites (Canary Islands). <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 203.	0.8	11
418	Crustal Footprint of Mantle Upwelling and Plate Amalgamation Revealed by Ambient Noise Tomography in Northern Vietnam and the Northern South China Sea. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB020593.	1.4	7
419	Mantle convection and possible mantle plumes beneath Antarctica â€“ insights from geodynamic models and implications for topography. <i>Geological Society Memoir</i> , 2023, 56, 253-266.	0.9	10
420	Helium and Argon Partitioning Between Liquid Iron and Silicate Melt at High Pressure. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090769.	1.5	7
421	Insights Into Deep Mantle Thermochemical Contributions to African Magmatism From Converted Seismic Phases. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009478.	1.0	11

#	ARTICLE	IF	CITATIONS
422	Global mantle flow retrodictions for the early Cenozoic using an adjoint method: evolving dynamic topographies, deep mantle structures, flow trajectories and sublithospheric stresses. <i>Geophysical Journal International</i> , 2021, 226, 1432-1460.	1.0	12
423	AFRP20: New <i>Wavespeed Model for the African Mantle Reveals Two Whole-Mantle Plumes Below East Africa and Neoproterozoic Modification of the Tanzania Craton</i> . <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009302.	1.0	29
424	Coexistence of Hainan Plume and Stagnant Slab in the Mantle Transition Zone beneath the South China Sea Spreading Ridge: Constraints from Volcanic Glasses and Seismic Tomography. <i>Lithosphere</i> , 2021, 2021, .	0.6	7
425	Subducted Lithosphere Under South America From Multifrequency P Wave Tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB020704.	1.4	10
426	Thallium elemental and isotopic systematics in ocean island lavas. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 301, 187-210.	1.6	6
427	Mantle plumes and their role in Earth processes. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 382-401.	12.2	78
428	Mineral systems and their putative link with mantle plumes. <i>Geological Society Special Publication</i> , 2022, 518, 467-492.	0.8	3
429	A tree of Indo-African mantle plumes imaged by seismic tomography. <i>Nature Geoscience</i> , 2021, 14, 612-619.	5.4	43
430	Longevity of small-scale (‘baby’) plumes and their role in lithospheric break-up. <i>Geophysical Journal International</i> , 2021, 227, 439-471.	1.0	17
432	A Compositional Component to the Samoa Ultralow-Velocity Zone Revealed Through 2 nd and 3 rd Waveform Modeling of SKS and SKKS Differential Travel Times and Amplitudes. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB021897.	1.4	5
436	Multiple melt source origin of the Line Islands (Pacific Ocean). <i>Geology</i> , 2021, 49, 1358-1362.	2.0	8
437	The Role of the Seismically Slow Central-East Atlantic Anomaly in the Genesis of the Canary and Madeira Volcanic Provinces. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092874.	1.5	14
438	Quantifying Periodic Variations in Hotspot Melt Production. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB021726.	1.4	2
439	Explosive felsic eruptions on ocean islands: A case study from Ascension Island (South Atlantic). <i>Journal of Volcanology and Geothermal Research</i> , 2021, 416, 107284.	0.8	6
443	A process-oriented approach to mantle geochemistry. <i>Chemical Geology</i> , 2021, 579, 120350.	1.4	18
444	Prediction of marine heat flow based on the random forest method and geological and geophysical features. <i>Marine Geophysical Researches</i> , 2021, 42, 1.	0.5	3
445	Thallium Isotopic Compositions in Hawaiian Lavas: Evidence for Recycled Materials on the Kea Side of the Hawaiian Mantle Plume. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009765.	1.0	5
446	The deep mantle upwelling beneath the northwestern South China Sea: Insights from the time-varying residual subsidence in the Qiongdongnan Basin. <i>Geoscience Frontiers</i> , 2021, 12, 101246.	4.3	13

#	ARTICLE	IF	CITATIONS
448	The mantle. , 2022, , 81-125.		2
449	The interaction between mantle plumes and lithosphere and its surface expressions: 3-D numerical modelling. <i>Geophysical Journal International</i> , 2021, 225, 906-925.	1.0	10
450	Planetary Tectonism. , 2019, , 99-140.		2
451	Transmission Tomography in Seismology. , 2014, , 1-16.		1
452	Transmission Tomography in Seismology. , 2015, , 1887-1904.		1
453	Hot Spots and Mantle Plumes. , 2014, , 1-20.		1
454	The Formation of Hot Thermal Anomalies in Cold Subductionâ€”Influenced Regions of Earth's Lowermost Mantle. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB019312.	1.4	12
455	Non-mantle-plume process caused the initial spreading of the South China Sea. <i>Scientific Reports</i> , 2020, 10, 8500.	1.6	9
456	Remnants of early Earth differentiation in the deepest mantle-derived lavas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	33
457	Magma plumbing system and origin of the intraplate volcanoes in Mainland China: an overview of constraints from geophysical imaging. <i>Geological Society Special Publication</i> , 2021, 510, 197-214.	0.8	3
458	Heterogeneity of Seismic Wave Velocity in Earth's Mantle. <i>Annual Review of Earth and Planetary Sciences</i> , 2020, 48, 377-401.	4.6	23
461	Eruption Sequences and Characteristics of Weizhou Island Volcano, Guangxi Province, South of China. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	0
463	Highly variable H ₂ O/Ce ratios in the Hainan mantle plume. <i>Lithos</i> , 2021, 406-407, 106516.	0.6	4
464	Constraints on Glacial Isostatic Adjustment from GOCE and Sea Level Data. , 2009, , 1261-1281.		1
465	Hotspot Concept: The French Polynesia Complexity. , 0, , .		0
466	Transmission Tomography in Seismology. , 2013, , 1-16.		0
468	Comparative Geochemical Study of the Tertiary and Quaternary Lavas of Western Senegal and the Cape Verde Islands: Geodynamic Implications. <i>International Journal of Geosciences</i> , 2015, 06, 1193-1213.	0.2	1
469	Intraplate Magmatism. , 2015, , 1-12.		0

#	ARTICLE	IF	CITATIONS
470	Diapir (Mantle). , 2015, , 581-585.		0
471	Earth's Structure, Upper Mantle. Encyclopedia of Earth Sciences Series, 2019, , 1-7.	0.1	0
472	Superplume in the Antarctic sector of the Pacific: position, genesis, age. Ukrainian Antarctic Journal, 2019, , 18-44.	0.1	0
473	Plate-plume tectonics as an integrated mechanism of geodynamic development of the tectonosphere of Ukraine and adjacent regions. Geofizicheskiy Zhurnal, 2020, 41, 3-34.	0.0	1
474	Eruption of the volcano Kilauea. Seismic-gravity processes and gravitomagnetic disturbances, fixed at the volcano activation stage. Geology and Mineral Resources of World Ocean, 2020, 16, 81-91.	0.0	0
475	GEODYNAMIC PROCESSES DURING ASCENT OF A PLUME WITH INTERMEDIATE THERMAL POWER THROUGH THE CONTINENTAL LITHOSPHERE AND DURING ITS ERUPTION ON THE SURFACE. Geodinamika I Tektonofizika, 2020, 11, 397-416.	0.3	1
476	Exploratory volumetric deep Earth visualization by 2.5D interactive compositing. IEEE Transactions on Visualization and Computer Graphics, 2020, PP, 1-1.	2.9	1
477	Mantle sources and magma genesis of Late Cenozoic basalts in Weizhou Island, Guangxi, China. Acta Petrologica Sinica, 2020, 36, 2092-2110.	0.3	6
478	P-wave Velocity Structure of Crustal and Upper Mantle beneath South China and its Tectonic Implications. Acta Geologica Sinica, 2022, 96, 621-630.	0.8	1
479	Dynamic topography and the nature of deep thick plumes. Earth and Planetary Science Letters, 2021, , 117286.	1.8	3
480	Detection and modelling of strong topography of mid-mantle structures beneath the North Atlantic. Geophysical Journal International, 0, , .	1.0	4
482	Radiogenic (Sr-Nd-Hf-Os) isotope data for neogene volcanic rocks from the rift-betic orogen and lanzarote (Canary Islands) in the western Mediterranean. Results in Geochemistry, 2021, 5, 100013.	0.3	0
483	Dense melt residues drive mid-ocean-ridge "hotspots", 2022, , .		0
484	Adjoint Waveform Tomography of South America. Journal of Geophysical Research: Solid Earth, 2022, 127, .	1.4	9
485	Catastrophic slab loss in southwestern Pangea preserved in the mantle and igneous record. Nature Communications, 2022, 13, 698.	5.8	9
486	Strong ULVZ and Slab Interaction at the Northeastern Edge of the Pacific LLSVP Favors Plume Generation. Geochemistry, Geophysics, Geosystems, 2022, 23, .	1.0	9
487	Flexural Subsidence Around Ross Island, West Antarctica. Geochemistry, Geophysics, Geosystems, 2022, 23, .	1.0	2
488	Instability of the African large low-shear-wave-velocity province due to its low intrinsic density. Nature Geoscience, 2022, 15, 334-339.	5.4	12

#	ARTICLE	IF	CITATIONS
513	Anomalous Radial Anisotropy and Its Implications for Upper Mantle Dynamics Beneath South China From Multimode Surface Wave Tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	1.4	1
514	Temporal Evolution of the Swell and Magmatic Fluxes Along the Louisville Hotspot Chain. <i>Geochemistry, Geophysics, Geosystems</i> , 2022, 23, .	1.0	1
515	A Complex Mantle Plume Head Below East Africaâ€Arabia Shaped by the Lithosphereâ€Asthenosphere Boundary Topography. <i>Geochemistry, Geophysics, Geosystems</i> , 2022, 23, .	1.0	7
516	3D-ambient noise surface wave tomography of Fogo volcano, Cape Verde. <i>Journal of Volcanology and Geothermal Research</i> , 2022, 432, 107702.	0.8	3
517	Seismic Constraints on Crustal and Uppermost Mantle Structure Beneath the Hawaiian Swell: Implications for Plumeâ€Lithosphere Interactions. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	1.4	4
518	The Origin of the Lowâ€Velocity Anomalies Beneath the Rootless Atlas Mountains: Insights Gained From Modeling of Anisotropy Developed by the Travel of Canary Plume. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	1.4	2
519	The explosive-effusive transition within the Miocene Fataga suite, Gran Canaria. <i>Chemical Geology</i> , 2023, 616, 121242.	1.4	2
520	Mantle source heterogeneity for Hainan basalts revealed by Pb and Sr isotopic compositions in olivine-hosted melt inclusions. <i>Lithos</i> , 2023, 438-439, 106991.	0.6	2
521	Expedition 391 summary. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	1
522	âœ°â1” æÿ±æ°â€¼æ”jâž<çš„ç”ç©¶è¿¿â±•. <i>SCIENTIA SINICA Terrae</i> , 2022, , .	0.1	0
523	The Role of Deep Fluids in Crustal Subsidence of the Cratonic Interior: The Moscow Sedimentary Basin during the Late Devonian. <i>Doklady Earth Sciences</i> , 2022, 507, 1085-1095.	0.2	2
524	In-situ Sr isotope disequilibrium in plagioclases from Late Cenozoic basalts in Leiqiong area: Evidence for the role of the Hainan plume and mantle metasomatism due to a paleo-subduction event. <i>Frontiers in Earth Science</i> , 0, 11, .	0.8	0
525	A New Pâ€Wave Tomographic Model (CAP22) for North America: Implications for the Subduction and Cratonic Metasomatic Modification History of Western Canada and Alaska. <i>Journal of Geophysical Research: Solid Earth</i> , 2023, 128, .	1.4	2
526	Mantle structure beneath the Macaronesian volcanic islands (Cape Verde, Canaries, Madeira and) Tj ETQq1 1 0.784314 rgBT /Overloc	0.8	1
527	Ghost-arc geochemical anomaly at a spreading ridge caused by supersized flat subduction. <i>Nature Communications</i> , 2023, 14, .	5.8	3
528	Contribution from ancient subducted slab to the Emeishan Large Igneous Province: Constraints from the petrogenesis of mafic intrusions in the western Guangxi area, South China. <i>Lithos</i> , 2023, 446-447, 107131.	0.6	0
529	Petrogenesis and dynamic significance of Miocene-Holocene alkali basalts in the southeastern Tibetan Plateau. <i>Lithos</i> , 2023, 448-449, 107165.	0.6	0
530	Seismic Azimuthal Anisotropy Beneath a Fast Moving Ancient Continent: Constraints From Shear Wave Splitting Analysis in Australia. <i>Journal of Geophysical Research: Solid Earth</i> , 2023, 128, .	1.4	3

#	ARTICLE	IF	CITATIONS
532	Origin of Late Triassic Granitoids of the Coastal Cordillera of Southern Central Chile (34°-37°S): Multi-Isotopic Evidence of Slab Tearing Effects on Pre-Andean Magmatism. <i>Tectonics</i> , 2023, 42, .	1.3	0
533	The isotopic origin of Lord Howe Island reveals secondary mantle plume twinning in the Tasman Sea. <i>Chemical Geology</i> , 2023, 622, 121374.	1.4	2
534	Geological Trails for the Fernando de Noronha Archipelago, Brazil: a Geodiversity Approach. <i>Geoheritage</i> , 2023, 15, .	1.5	1
535	Structure and evolution of the Australian plate and underlying upper mantle from waveform tomography with massive data sets. <i>Geophysical Journal International</i> , 2023, 234, 153-189.	1.0	5
536	Evolution of Mantle Plumes and Lower Mantle Structure in Numerical Models Using Tectonic Reconstructions as Boundary Conditions. , 2023, , 427-458.		0
537	Possible South-Dipping Mesozoic Subduction at Southern Tethys Ocean-Constrained from Global Tectonic Reconstructions and Seismic Tomography. <i>Journal of Earth Science (Wuhan, China)</i> , 2023, 34, 260-279.	1.1	3
538	Anomaly Lithospheric Magnetic Field of the Ethiopia/Afar Hotspot (According to the CHAMP Mission). <i>Izvestiya - Atmospheric and Oceanic Physics</i> , 2022, 58, 1591-1598.	0.2	0
539	The Mechanical Nature of the Lithosphere Beneath the Eastern Central Atlantic Hotspots. <i>Geochemistry, Geophysics, Geosystems</i> , 2023, 24, .	1.0	0
540	Quaternary Intrusions from the Zhongjiannan Basin, South China Sea: Their Relationship with the Hainan Mantle Plume and Influence on Hydrocarbon Reservoirs. <i>Acta Geologica Sinica</i> , 2023, 97, 376-392.	0.8	1
541	Carbon Enrichment in the Lithospheric Mantle: Evidence from the Melt Inclusions in Mantle Xenoliths from the Hainan Basalts. <i>Acta Geologica Sinica</i> , 2023, 97, 358-375.	0.8	0
542	Geology of Lanzarote's northern region (Canary Island, Spain). <i>Journal of Maps</i> , 0, , 1-14.	1.0	0
543	A Geodynamic Investigation of Plume-Lithosphere Interactions Beneath the East African Rift. <i>Journal of Geophysical Research: Solid Earth</i> , 2023, 128, .	1.4	4
544	Progress in the numerical modeling of mantle plumes. <i>Science China Earth Sciences</i> , 2023, 66, 685-702.	2.3	1
545	Seismic evidence for a 1000 km mantle discontinuity under the Pacific. <i>Nature Communications</i> , 2023, 14, .	5.8	2
546	New Insights into the Mesozoic Large-Scale Intra-Plate Magmatism and Mineralization in South China from Seismic Tomography. <i>Acta Geologica Sinica</i> , 2023, 97, 1243-1251.	0.8	1
551	Earth's mantle composition revealed by mantle plumes. <i>Nature Reviews Earth & Environment</i> , 2023, 4, 604-625.	12.2	1
561	Role of Large Igneous Provinces in continental break-up varying from 'Shirker' to 'Producer'. <i>Communications Earth & Environment</i> , 2024, 5, .	2.6	0