

Petrus J Le Roux

List of Publications by Citations

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85
papers

2,114
citations

24
h-index

44
g-index

91
ext. papers

2,486
ext. citations

4.3
avg, IF

4.77
L-index

#	Paper	IF	Citations
85	A long in situ section of the lower ocean crust: results of ODP Leg 176 drilling at the Southwest Indian Ridge. <i>Earth and Planetary Science Letters</i> , 2000 , 179, 31-51	5.3	373
84	Lithium isotopes in global mid-ocean ridge basalts. <i>Geochimica Et Cosmochimica Acta</i> , 2008 , 72, 1626-1637	5.75	152
83	Strontium isotope evidence for landscape use by early hominins. <i>Nature</i> , 2011 , 474, 76-8	50.4	148
82	The effects of variable sources, processes and contaminants on the composition of northern EPR MORB (8°10'N and 12°14'N): Evidence from volatiles (H ₂ O, CO ₂ , S) and halogens (F, Cl). <i>Earth and Planetary Science Letters</i> , 2006 , 251, 209-231	5.3	136
81	Mantle heterogeneity beneath the southern Mid-Atlantic Ridge: trace element evidence for contamination of ambient asthenospheric mantle. <i>Earth and Planetary Science Letters</i> , 2002 , 203, 479-498	5.3	91
80	Strontium isotope ratios (⁸⁷ Sr/ ⁸⁶ Sr) of tooth enamel: a comparison of solution and laser ablation multicollector inductively coupled plasma mass spectrometry methods. <i>Rapid Communications in Mass Spectrometry</i> , 2008 , 22, 3187-94	2.2	88
79	In situ, multiple-multiplier, laser ablation ICP-MS measurement of boron isotopic composition (¹¹ B) at the nanogram level. <i>Chemical Geology</i> , 2004 , 203, 123-138	4.2	68
78	Strontium isotope investigation of ungulate movement patterns on the Pleistocene Paleo-Agulhas Plain of the Greater Cape Floristic Region, South Africa. <i>Quaternary Science Reviews</i> , 2016 , 141, 65-84	3.9	58
77	The oxygen isotope composition of Karoo and Etendeka picrites: High ¹⁸ O mantle or crustal contamination?. <i>Contributions To Mineralogy and Petrology</i> , 2015 , 170, 1	3.5	53
76	Light Stable Isotopic Compositions of Enriched Mantle Sources: Resolving the Dehydration Paradox. <i>Geochemistry, Geophysics, Geosystems</i> , 2017 , 18, 3801-3839	3.6	49
75	Strontium isotope ratios in fossil teeth from South Africa: assessing laser ablation MC-ICP-MS analysis and the extent of diagenesis. <i>Journal of Archaeological Science</i> , 2010 , 37, 1437-1446	2.9	46
74	Peridotitic Lithosphere Metasomatized by Volatile-bearing Melts, and its Association with Intraplate Alkaline HIMU-like Magmatism. <i>Journal of Petrology</i> , 2016 , 57, 2053-2078	3.9	45
73	Crystallization processes beneath the southern Mid-Atlantic Ridge (40°5'S), evidence for high-pressure initiation of crystallization. <i>Contributions To Mineralogy and Petrology</i> , 2002 , 142, 582-602	3.5	44
72	Origin and evolution of the ~1.9 Ga Richtersveld Magmatic Arc, SW Africa. <i>Precambrian Research</i> , 2017 , 292, 417-451	3.9	43
71	Selenium and tellurium systematics in MORBs from the southern Mid-Atlantic Ridge (47°0'S). <i>Geochimica Et Cosmochimica Acta</i> , 2014 , 144, 379-402	5.5	40
70	Geochemical and isotopic constraints on the tectonic and crustal evolution of the Shackleton Range, East Antarctica, and correlation with other Gondwana crustal segments. <i>Precambrian Research</i> , 2010 , 180, 85-112	3.9	39
69	MORB melting processes beneath the southern Mid-Atlantic Ridge (40°5'S): a role for mantle plume-derived pyroxenite. <i>Contributions To Mineralogy and Petrology</i> , 2002 , 144, 206-229	3.5	39

68	Magmatic effects of the Cobb hot spot on the Juan de Fuca Ridge. <i>Journal of Geophysical Research</i> , 2005 , 110,		38
67	Paleolithic to Bronze Age Siberians Reveal Connections with First Americans and across Eurasia. <i>Cell</i> , 2020 , 181, 1232-1245.e20	56.2	33
66	Strontium isotope analyses of large herbivore habitat use in the Cape Fynbos region of South Africa. <i>Oecologia</i> , 2010 , 164, 567-78	2.9	32
65	Earliest Evidence for the Ivory Trade in Southern Africa: Isotopic and ZooMS Analysis of Seventh–tenth Century ad Ivory from KwaZulu-Natal. <i>African Archaeological Review</i> , 2016 , 33, 411-435	0.9	31
64	Implications of the distribution, age and origins of the granites of the Mesoproterozoic Spektakel Suite for the timing of the Namaqua Orogeny in the Bushmanland Subprovince of the Namaqua-Natal Metamorphic Province, South Africa. <i>Precambrian Research</i> , 2018 , 312, 68-98	3.9	30
63	Diffusion-zoned pyroxenes in an isotopically heterogeneous mantle lithosphere beneath the Dunedin Volcanic Group, New Zealand, and their implications for intraplate alkaline magma sources. <i>Lithosphere</i> , 2017 , 9, 463-475	2.7	26
62	The Anita Peridotite, New Zealand: Ultra-depletion and Subtle Enrichment in Sub-arc Mantle. <i>Journal of Petrology</i> , 2016 , 57, 717-750	3.9	25
61	Strontium isotope analysis of curved tooth enamel surfaces by laser-ablation multi-collector ICP-MS. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2014 , 416, 142-149	2.9	20
60	The Keimoes Suite redefined: The geochronological and geochemical characteristics of the ferroan granites of the eastern Namaqua Sector, Mesoproterozoic Namaqua-Natal Metamorphic Province, southern Africa. <i>Journal of African Earth Sciences</i> , 2017 , 134, 737-765	2.2	19
59	Lithium isotope analysis of natural and synthetic glass by laser ablation MC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2010 , 25, 1033	3.7	19
58	Sr- and Nd- isotope variations along the Pleistocene San Pedro Ñinzor volcanic chain, N. Chile: Tracking the influence of the upper crustal Altiplano-Puna Magma Body. <i>Journal of Volcanology and Geothermal Research</i> , 2017 , 341, 172-186	2.8	17
57	Late Neolithic-Chalcolithic socio-economical dynamics in Northern Iberia. A multi-isotope study on diet and provenance from Santimamiñ and Pico Ramos archaeological sites (Basque Country, Spain). <i>Quaternary International</i> , 2018 , 481, 14-27	2	17
56	Linking the mafic volcanism with the magmatic stages during the last 1 Ma in the main volcanic arc of the Altiplano-Puna Volcanic Complex (Central Andes). <i>Journal of South American Earth Sciences</i> , 2019 , 95, 102295	2	17
55	Magmatic differentiation at La Poruñ scoria cone, Central Andes, northern Chile: Evidence for assimilation during turbulent ascent processes, and genetic links with mafic eruptions at adjacent San Pedro volcano. <i>Lithos</i> , 2019 , 338-339, 128-140	2.9	15
54	The Dunedin Volcanic Group and a revised model for Zealandia’s alkaline intraplate volcanism. <i>New Zealand Journal of Geology, and Geophysics</i> , 2020 , 63, 510-529	1.6	15
53	In Situ ⁸⁷ Sr/ ⁸⁶ Sr of Scheelite and Calcite Reveals Proximal and Distal Fluid-Rock Interaction During Orogenic W-Au Mineralization, Otago Schist, New Zealand. <i>Economic Geology</i> , 2018 , 113, 1571-1586	4.3	15
52	The upper crustal magma plumbing system of the Pleistocene Apacheta-Aguilucho Volcanic Complex area (Altiplano-Puna, northern Chile) as inferred from the erupted lavas and their enclaves. <i>Journal of Volcanology and Geothermal Research</i> , 2019 , 373, 179-198	2.8	14
51	Low- ¹⁸ O zircon xenocrysts in alkaline basalts; a window into the complex carbonatite-metasomatic history of the Zealandia lithospheric mantle. <i>Geochimica Et Cosmochimica Acta</i> , 2019 , 254, 21-39	5.5	12

50	Territorial mobility and subsistence strategies during the Ebro Basin Late Neolithic-Chalcolithic: A multi-isotope approach from San Juan cave (Loarre, Spain). <i>Quaternary International</i> , 2018 , 481, 28-41	2	12
49	The geochemistry and geochronology of the upper granulite facies Kliprand dome: Comparison of the southern and northern parts of the Bushmanland Domain of the Namaqua Metamorphic Province, southern Africa and clues to its evolution. <i>Precambrian Research</i> , 2019 , 330, 58-100	3.9	10
48	Geological evolution of Paniri volcano, Central Andes, northern Chile. <i>Journal of South American Earth Sciences</i> , 2018 , 84, 184-200	2	10
47	Dating apatitic rocks: A multi-system (U/Pb, Sm/Nd, Rb/Sr and ⁴⁰ Ar/ ³⁹ Ar) isotopic study of layered nepheline syenites from the Ilhauassaq complex, Greenland. <i>Lithos</i> , 2019 , 324-325, 74-88	2.9	10
46	Element and Sr/ ⁸⁷ Sr isotope redistribution across a plate boundary-scale crustal serpentinite mélange shear zone, and implications for the slab-mantle interface. <i>Earth and Planetary Science Letters</i> , 2019 , 522, 198-209	5.3	9
45	The ups & downs of Iron Age animal management on the Oxfordshire Ridgeway, south-central England: A multi-isotope approach. <i>Journal of Archaeological Science</i> , 2019 , 101, 199-212	2.9	8
44	Environmental and ecological implications of strontium isotope ratios in mid-Pleistocene fossil teeth from Elandsfontein, South Africa. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2018 , 490, 84-94	2.9	8
43	The great escape: Petrogenesis of low-silica volcanism of Pliocene to Quaternary age associated with the Altiplano-Puna Volcanic Complex of northern Chile (21°10'-22°50'S). <i>Lithos</i> , 2019 , 346-347, 105-162	2.9	8
42	Petrological, geochemical and isotopic data of Neoproterozoic rock units from Uruguay and South Africa: Correlation of basement terranes across the South Atlantic. <i>Gondwana Research</i> , 2020 , 80, 12-32	5.1	8
41	Sunda arc mantle source ⁸⁷ Sr/ ⁸⁶ Sr value revealed by intracrystal isotope analysis. <i>Nature Communications</i> , 2021 , 12, 3930	17.4	8
40	The geology and geochemistry of the Espungabera Formation of central Mozambique and its tectonic setting on the eastern margin of the Kalahari Craton. <i>Journal of African Earth Sciences</i> , 2015 , 101, 96-112	2.2	7
39	Petrogenesis of peralkaline granite dykes of the Straumsvola complex, western Dronning Maud Land, Antarctica. <i>Contributions To Mineralogy and Petrology</i> , 2018 , 173, 1	3.5	7
38	Constraining the sub-arc, parental magma composition for the giant Altiplano-Puna Volcanic Complex, northern Chile. <i>Scientific Reports</i> , 2020 , 10, 6864	4.9	6
37	The 1.8 Ga Gladkop Suite: The youngest Palaeoproterozoic domain in the Namaqua-Natal Metamorphic Province, South Africa. <i>Precambrian Research</i> , 2020 , 350, 105941	3.9	6
36	Geology, geochemistry and Sr/ ⁸⁷ Sr constraints of selected metavolcanic rocks from the eastern boundary of the Saharan Metacraton, southern Sudan: A possible revision of the eastern boundary. <i>Precambrian Research</i> , 2016 , 281, 566-584	3.9	6
35	From texts to teeth: A multi-isotope study of sheep and goat herding practices in the Late Bronze Age (Mycenaean) polity of Knossos, Crete. <i>Journal of Archaeological Science: Reports</i> , 2019 , 23, 36-56	0.7	6
34	Crustal versus mantle origin of carbonate xenoliths from Kimberley region kimberlites using C-O-Sr-Nd-Pb isotopes and trace element abundances. <i>Geochimica Et Cosmochimica Acta</i> , 2019 , 266, 258-273	5.5	5
33	Multi-tissue and multi-isotope (¹³ C, ¹⁵ N, ¹⁸ O and Sr) data for early medieval human and animal palaeoecology. <i>Ecology</i> , 2021 , 102, e03349	4.6	5

32	Petrogenesis of the diamondiferous Pipe-8 ultramafic intrusion from the Wajrakarur kimberlite field of Southern India and its relation to the worldwide Mesoproterozoic (~1.1 Ga) magmatism of kimberlite and related rocks. <i>Geoscience Frontiers</i> , 2020 , 11, 793-805	6	5
31	Saline groundwater in the Buffels River catchment, Namaqualand, South Africa: A new look at an old problem. <i>Science of the Total Environment</i> , 2021 , 762, 143140	10.2	5
30	Multi-isotopic and morphometric evidence for the migration of farmers leading up to the Inka conquest of the southern Andes. <i>Scientific Reports</i> , 2020 , 10, 21171	4.9	4
29	Pyrometamorphosed Otago Schist xenoliths cause minor contamination of Dunedin Volcanic Group basanite. <i>New Zealand Journal of Geology, and Geophysics</i> , 2020 , 63, 530-546	1.6	4
28	Intraplate volcanism on the Zealandia Eocene-Early Oligocene continental shelf: the Waiareka-Deborah Volcanic Field, North Otago. <i>New Zealand Journal of Geology, and Geophysics</i> , 2020 , 63, 450-468	1.6	4
27	Peritectic assemblage entrainment as the main compositional driver in the I-type Vredenburg Granite, north-western Pan-African Saldania Belt, South Africa: A whole-rock chemical perspective. <i>Lithos</i> , 2020 , 364-365, 105522	2.9	4
26	The geology and geochemistry of the Straumsnutane Formation, Straumsnutane, western Dronning Maud Land, Antarctica and its tectonic setting on the western margin of the Kalahari Craton: additional evidence linking it to the Umkondo Large Igneous Province. <i>Geological Society Special Publication</i> , 2017 , 457, 61-85	1.7	3
25	Upper crustal differentiation processes and their role in 238U-230Th disequilibria at the San Pedro-Linzor volcanic chain (Central Andes). <i>Journal of South American Earth Sciences</i> , 2020 , 102, 102672 ²		3
24	Enamel isotopic data from the domesticated animals at Kotada Bhadli, Gujarat, reveals specialized animal husbandry during the Indus Civilization. <i>Journal of Archaeological Science: Reports</i> , 2018 , 21, 183-199	0.7	3
23	The Mount Cameroon southwest flank eruptions: Geochemical constraints on the subsurface magma plumbing system. <i>Journal of Volcanology and Geothermal Research</i> , 2019 , 384, 179-188	2.8	3
22	Natural Clinopyroxene Reference Materials for Sr Isotopic Analysis via LA-MC-ICP-MS. <i>Frontiers in Chemistry</i> , 2020 , 8, 594316	5	3
21	Spatial variation in bioavailable strontium isotope ratios (⁸⁷ Sr/ ⁸⁶ Sr) in Kenya and northern Tanzania: Implications for ecology, paleoanthropology, and archaeology. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2020 , 560, 109957	2.9	3
20	Eruptive history of La Poruña scoria cone, Central Andes, Northern Chile. <i>Bulletin of Volcanology</i> , 2020 , 82, 1	2.4	3
19	Anthropic resource exploitation and use of the territory at the onset of social complexity in the Neolithic-Chalcolithic Western Pyrenees: a multi-isotope approach. <i>Archaeological and Anthropological Sciences</i> , 2019 , 11, 3665-3680	1.8	2
18	The role of ostrich in shaping the landscape use patterns of humans and hyenas on the southern coast of South Africa during the late Pleistocene 2018 , 333-346		2
17	Heading for the hills? A multi-isotope study of sheep management in first-millennium BC Italy. <i>Journal of Archaeological Science: Reports</i> , 2020 , 29, 102036	0.7	2
16	The role of crustal contamination in the petrogenesis of nepheline syenite to granite magmas in the Ditrū Complex, Romania: evidence from O-, Nd-, Sr- and Pb-isotopes. <i>Contributions To Mineralogy and Petrology</i> , 2020 , 175, 1	3.5	2
15	Petrogenesis of amphibole megacrysts in lamprophyric intraplate magmatism in southern New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 2020 , 63, 489-509	1.6	2

14	Interdisciplinary Analysis of the Lehi Horse: Implications for Early Historic Horse Cultures of the North American West. <i>American Antiquity</i> , 1-21	0.9	2
13	Structural Controls on Shallow Cenozoic Fluid Flow in the Otago Schist, New Zealand. <i>Geofluids</i> , 2020, 2020, 1-25	1.5	1
12	Population movements of the Huron-Wendat viewed through strontium isotope analysis. <i>Journal of Archaeological Science: Reports</i> , 2020, 33, 102466	0.7	1
11	Sea, sickness and cautionary tales: a multi-isotope study from a post-mediaeval hospital at the city-port of Gibraltar (AD 1462–1704). <i>Archaeological and Anthropological Sciences</i> , 2020, 12, 1	1.8	1
10	The life-history of a late Mesolithic woman in Iberia: A sequential multi-isotope approach. <i>Quaternary International</i> , 2020, 566-567, 233-244	2	1
9	Human mobility at Tell Atchana (Alalakh), Hatay, Turkey during the 2nd millennium BC: Integration of isotopic and genomic evidence. <i>PLoS ONE</i> , 2021, 16, e0241883	3.7	1
8	An investigation into the ⁸⁷ Sr/ ⁸⁶ Sr radiogenic isotope geochemistry of the manganese ore of the Kalahari Manganese Field with a view on hydrothermal fluid flow and related rare earth element enrichments. <i>South African Journal of Geology</i> , 2019, 122, 237-248	1.6	1
7	Re-evaluating Scythian lifeways: Isotopic analysis of diet and mobility in Iron Age Ukraine. <i>PLoS ONE</i> , 2021, 16, e0245996	3.7	1
6	Distinct scheelite REE geochemistry and ⁸⁷ Sr/ ⁸⁶ Sr isotopes in proximally- and distally-sourced metamorphogenic hydrothermal systems, Otago Schist, New Zealand. <i>Ore Geology Reviews</i> , 2022, 144, 104800	3.2	1
5	Investigating Cattle Procurement at Great Zimbabwe Using ⁸⁷ Sr/ ⁸⁶ Sr. <i>Journal of African Archaeology</i> , 2021, 1-13	0.8	0
4	The genesis and age of the Grunehogna Granite and Rb/Sr and Sm/Nd chemistry of the Annandagstoppane Granite, Ahlmanryggen, Dronning Maud Land, Antarctica. <i>Polar Science</i> , 2021, 30, 100717	2.3	0
3	Physical and chemical evolution of the largest monogenetic lava field in the Central Andes: El Negrillar Volcanic Field, Chile. <i>Journal of Volcanology and Geothermal Research</i> , 2022, 107541	2.8	0
2	Evolution of the Azufre volcano (northern Chile): Implications for the Cerro Pabellón Geothermal Field as inferred from long lasting eruptive activity. <i>Journal of Volcanology and Geothermal Research</i> , 2022, 423, 107472	2.8	
1	Petrogenesis of lamprophyres synchronous to kimberlites from the Wajrakarur kimberlite field: Implications for contrasting lithospheric mantle sources and geodynamic evolution of the eastern Dharwar Craton of southern India. <i>Geological Journal</i> , 2018, 54, 2994	1.7	