D Graham Pearson

List of Publications by Year
in descending order

138 papers	9,667 citations	38742 50 h-index	40979 93 g-index
140 all docs	140 docs citations	140 times ranked	4117 citing authors

#	Article	IF	Citations
1	Hydrous mantle transition zone indicated by ringwoodite included within diamond. Nature, 2014, 507, 221-224.	27.8	613
2	Physical, chemical, and chronological characteristics of continental mantle. Reviews of Geophysics, 2005, 43, .	23.0	408
3	Stabilisation of Archaean lithospheric mantle: A ReOs isotope study of peridotite xenoliths from the Kaapvaal craton. Earth and Planetary Science Letters, 1995, 134, 341-357.	4.4	400
4	Composition of the Siberian cratonic mantle: evidence from Udachnaya peridotite xenoliths. Contributions To Mineralogy and Petrology, 1997, 128, 228-246.	3.1	370
5	Diamonds and the Geology of Mantle Carbon. Reviews in Mineralogy and Geochemistry, 2013, 75, 355-421.	4.8	360
6	Reâ€"Os isotope systematics and platinum group element fractionation during mantle melt extraction: a study of massif and xenolith peridotite suites. Chemical Geology, 2004, 208, 29-59.	3.3	290
7	The Origin and Evolution of the Kaapvaal Cratonic Lithospheric Mantle. Journal of Petrology, 2007, 48, 589-625.	2.8	273
8	Solvent extraction/anion exchange separation and determination of PGEs (Os, Ir, Pt, Pd, Ru) and Reâ€"Os isotopes in geological samples by isotope dilution ICP-MS. Chemical Geology, 2000, 165, 87-107.	3.3	265
9	The age of continental roots. Lithos, 1999, 48, 171-194.	1.4	260
10	Mantle Samples Included in Volcanic Rocks: Xenoliths and Diamonds. , 2003, , 171-275.		259
11	Formation of Archaean continental lithosphere and its diamonds: the root of the problem. Journal of the Geological Society, 2008, 165, 895-914.	2.1	240
12	A link between large mantle melting events and continent growth seen in osmium isotopes. Nature, 2007, 449, 202-205.	27.8	216
13	Geochemistry of hypabyssal kimberlites from Lac de Gras, Canada: Comparisons to a global database and applications to the parent magma problem. Lithos, 2009, 112, 236-248.	1.4	211
14	Geochemical Constraints on the Petrogenesis of Diamond Facies Pyroxenites from the Beni Bousera Peridotite Massif, North Morocco. Journal of Petrology, 1993, 34, 125-172.	2.8	200
15	Archaean Reâ€"Os age for Siberian eclogites and constraints on Archaean tectonics. Nature, 1995, 374, 711-713.	27.8	188
16	Re-Os and Lu-Hf Isotope Constraints on the Origin and Age of Pyroxenites from the Beni Bousera Peridotite Massif: Implications for Mixed Peridotite-Pyroxenite Mantle Sources. Journal of Petrology, 2004, 45, 439-455.	2.8	157
17	Archean emplacement of eclogitic components into the lithospheric mantle during formation of the Kaapvaal Craton. Geophysical Research Letters, 2001, 28, 2509-2512.	4.0	133
18	Rapid eruption of Skye lavas inferred from precise Uâ€"Pb and Arâ€"Ar dating of the Rum and Cuillin plutonic complexes. Nature, 1998, 394, 260-263.	27.8	132

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19	CaSiO3 perovskite in diamond indicates the recycling of oceanic crust into the lower mantle. Nature, 2018, 555, 237-241.	27.8	123
20	Constraints on the depth and thermal history of cratonic lithosphere from peridotite xenoliths, xenocrysts and seismology. Lithos, 2011, 125, 729-742.	1.4	117
21	Enriched Pt-Re-Os Isotope Systematics in Plume Lavas Explained by Metasomatic Sulfides. Science, 2008, 319, 453-456.	12.6	116
22	184Os/188Os and 186Os/188Os measurements by Negative Thermal Ionisation Mass Spectrometry (N-TIMS): Effects of interfering element and mass fractionation corrections on data accuracy and precision. Chemical Geology, 2008, 248, 342-362.	3.3	109
23	Craton formation in Late Archean subduction zones revealed by first Greenland eclogites. Geology, 2011, 39, 1103-1106.	4.4	100
24	No evidence for Hadean continental crust within Earthâ€™s oldest evolved rock unit. Nature Geoscience, 2016, 9, 777-780.	12.9	99
25	Deep continental roots and cratons. Nature, 2021, 596, 199-210.	27.8	93
26	Origin of cratonic lithospheric mantle roots: A geochemical study of peridotites from the North Atlantic Craton, West Greenland. Earth and Planetary Science Letters, 2008, 274, 24-33.	4.4	91
27	Inter-element fractionation of highly siderophile elements in the Tonga Arc due to flux melting of a depleted source. Geochimica Et Cosmochimica Acta, 2012, 89, 202-225.	3.9	89
28	Secular mantle oxidation across the Archean-Proterozoic boundary: Evidence from V partitioning in komatiites and picrites. Geochimica Et Cosmochimica Acta, 2019, 250, 49-75.	3.9	88
29	Highly siderophile element behaviour accompanying subduction of oceanic crust: Whole rock and mineral-scale insights from a high-pressure terrain. Geochimica Et Cosmochimica Acta, 2009, 73, 1394-1416.	3.9	86
30	The continental lithospheric mantle: characteristics and significance as a mantle reservoir. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2002, 360, 2383-2410.	3.4	83
31	The Formation and Evolution of Cratonic Mantle Lithosphere â€“ Evidence from Mantle Xenoliths. , 2014, , 255-292.		80
32	Formation of the North Atlantic Craton: Timing and mechanisms constrained from Reâ€“Os isotope and PGE data of peridotite xenoliths from S.W. Greenland. Chemical Geology, 2010, 276, 166-187.	3.3	79
33	Distribution and Processing of Highly Siderophile Elements in Cratonic Mantle Lithosphere. Reviews in Mineralogy and Geochemistry, 2016, 81, 239-304.	4.8	76
34	Lithospheric mantle evolution of the Kaapvaal Craton: A Re-Os isotope study of peridotite xenoliths from Lesotho kimberlites. Geophysical Research Letters, 2001, 28, 2505-2508.	4.0	72
35	Mixed fluid sources involved in diamond growth constrained by Srâ€“Ndâ€“Pbâ€“Câ€“N isotopes and trace elements. Earth and Planetary Science Letters, 2010, 289, 123-133.	4.4	72
36	Kimberlite genesis from a common carbonate-rich primary melt modified by lithospheric mantle assimilation. Science Advances, 2020, 6, eaaz0424.	10.3	72

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37	Age, Composition and Thermal Characteristics of South African Off-Craton Mantle Lithosphere: Evidence for a Multi-Stage History. Journal of Petrology, 2010, 51, 1849-1890.	2.8	71
38	Garnet lherzolites from Louwrensia, Namibia: bulk composition and P/T relationsâ˜†. Lithos, 2004, 77, 573-592.	1.4	70
39	Kimberlites as Geochemical Probes of Earthâ€™s Mantle. Elements, 2019, 15, 387-392.	0.5	66
40	An integrated petrological, geochemical and Reâ€“Os isotope study of peridotite xenoliths from the Argyle lamproite, Western Australia and implications for cratonic diamond occurrences. Lithos, 2009, 112, 1096-1108.	1.4	65
41	The thinning of subcontinental lithosphere: The roles of plume impact and metasomatic weakening. Geochemistry, Geophysics, Geosystems, 2015, 16, 1156-1171.	2.5	65
42	Rhenium-Osmium Isotope and Platinum-Group Element Constraints on the Origin and Evolution of the 1{middle dot}27 Ga Muskox Layered Intrusion. Journal of Petrology, 2008, 49, 1255-1295.	2.8	64
43	The longevity of Archean mantle residues in the convecting upper mantle and their role in young continent formation. Earth and Planetary Science Letters, 2015, 424, 109-118.	4.4	64
44	Kimberlites reveal 2.5-billion-year evolution of a deep, isolated mantle reservoir. Nature, 2019, 573, 578-581.	27.8	64
45	Extreme platinum-group element fractionation and variable Os isotope compositions in Philippine Sea Plate basalts: Tracing mantle source heterogeneity. Chemical Geology, 2008, 248, 213-238.	3.3	63
46	Extremely depleted lithospheric mantle and diamonds beneath the southern Zimbabwe Craton. Lithos, 2009, 112, 1120-1132.	1.4	61
47	Precise and accurate 186Os/188Os and 187Os/188Os measurements by multi-collector plasma ionisation mass spectrometry (MC-ICP-MS) part I: Solution analyses. Chemical Geology, 2008, 248, 363-393.	3.3	58
48	Precise and accurate 186Os/188Os and 187Os/188Os measurements by Multi-collector Plasma Ionisation Mass Spectrometry, part II: Laser ablation and its application to single-grain Ptâ€“Os and Reâ€“Os geochronology. Chemical Geology, 2008, 248, 394-426.	3.3	57
49	Evidence for H2O-bearing fluids in the lower mantle from diamond inclusion. Lithos, 2016, 265, 237-243.	1.4	57
50	Plume-driven recratonization of deep continental lithospheric mantle. Nature, 2021, 592, 732-736.	27.8	57
51	Osmium isotopes in Baffin Island and West Greenland picrites: Implications for the 187Os/188Os composition of the convecting mantle and the nature of high 3He/4He mantle. Earth and Planetary Science Letters, 2009, 278, 267-277.	4.4	56
52	Ancient Os isotope signatures from the Ontong Java Plateau lithosphere: Tracing lithospheric accretion history. Earth and Planetary Science Letters, 2011, 301, 159-170.	4.4	56
53	Kimberlites: From Deep Earth to Diamond Mines. Elements, 2019, 15, 377-380.	0.5	55
54	Petrogenesis and tectonics of the Acasta Gneiss Complex derived from integrated petrology and 142Nd and 182W extinct nuclide-geochemistry. Earth and Planetary Science Letters, 2018, 494, 12-22.	4.4	53

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55	Diamond isotope compositions indicate altered igneous oceanic crust dominates deep carbon recycling. Earth and Planetary Science Letters, 2019, 516, 190-201.	4.4	53
56	Hafnium isotopes in zircons document the gradual onset of mobile-lid tectonics. Geochemical Perspectives Letters, 0, , 1-6.	5.0	53
57	The lithospheric mantle below southern West Greenland: A geothermobarometric approach to diamond potential and mantle stratigraphy. Lithos, 2009, 112, 1155-1166.	1.4	51
58	Widespread tungsten isotope anomalies and W mobility in crustal and mantle rocks of the Eoarchean Saglek Block, northern Labrador, Canada: Implications for early Earth processes and W recycling. Earth and Planetary Science Letters, 2016, 448, 13-23.	4.4	51
59	Continent stabilisation by lateral accretion of subduction zone-processed depleted mantle residues; insights from Zealandia. Earth and Planetary Science Letters, 2019, 507, 175-186.	4.4	50
60	A major element, PGE and Reâ€"Os isotope study of Middle Atlas (Morocco) peridotite xenoliths: Evidence for coupled introduction of metasomatic sulphides and clinopyroxene. Lithos, 2010, 115, 15-26.	1.4	49
61	Rapid, precise and accurate Os isotope ratio measurements of nanogram to sub-nanogram amounts using multiple Faraday collectors and amplifiers equipped with 1012 Î© resistors by N-TIMS. Chemical Geology, 2014, 363, 301-311.	3.3	49
62	Duration and periodicity of kimberlite volcanic activity in the Lac de Gras kimberlite field, Canada and some recommendations for kimberlite geochronology. Lithos, 2015, 218-219, 155-166.	1.4	48
63	Significance of the whole rock Reâ€"Os ages in cryptically and modally metasomatised cratonic peridotites: Constraints from HSEâ€"Seâ€"Te systematics. Geochimica Et Cosmochimica Acta, 2015, 164, 441-463.	3.9	48
64	Application of the 190Pt-186Os Isotope System to Dating Platinum Mineralization and Ophiolite Formation: An Example from the Meratus Mountains, Borneo. Economic Geology, 2011, 106, 93-117.	3.8	44
65	The sources and time-integrated evolution of diamond-forming fluids â€" Trace elements and isotopic evidence. Geochimica Et Cosmochimica Acta, 2014, 125, 146-169.	3.9	44
66	Trace element analysis of high-Mg olivine by LA-ICP-MS â€" Characterization of natural olivine standards for matrix-matched calibration and application to mantle peridotites. Chemical Geology, 2019, 524, 136-157.	3.3	44
67	Isotopic constraints on the nature and circulation of deep mantle Câ€"Hâ€"Oâ€"N fluids: Carbon and nitrogen systematics within ultra-deep diamonds from Kankan (Guinea). Geochimica Et Cosmochimica Acta, 2014, 139, 26-46.	3.9	42
68	Timing and origin of magmatism in the Sverdrup Basin, Northern Canadaâ€"Implications for lithospheric evolution in the High Arctic Large Igneous Province (HALIP). Tectonophysics, 2018, 742-743, 50-65.	2.2	42
69	The complex life cycle of oceanic lithosphere: A study of Yarlung-Zangbo ophiolitic peridotites, Tibet. Geochimica Et Cosmochimica Acta, 2020, 277, 175-191.	3.9	41
70	Mantle Samples Included in Volcanic Rocks. , 2014, , 169-253.		40
71	Making Archean cratonic roots by lateral compression: A two-stage thickening and stabilization model. Tectonophysics, 2018, 746, 562-571.	2.2	40
72	Is Iceland underlain by a plume in the lower mantle? SeismologyÂand helium isotopes. Geophysical Journal International, 2001, 145, F1-F5.	2.4	39

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73	Construction and destruction of some North American cratons. Tectonophysics, 2017, 694, 464-485.	2.2	38
74	Dating mantle peridotites using Re-Os isotopes: The complex message from whole rocks, base metal sulfides, and platinum group minerals. American Mineralogist, 2019, 104, 165-189.	1.9	37
75	Quantitative analysis of trace element concentrations in some gem-quality diamonds. Journal of Physics Condensed Matter, 2009, 21, 364207.	1.8	35
76	Slab Transport of Fluids to Deep Focus Earthquake Depthsâ€"Thermal Modeling Constraints and Evidence From Diamonds. AGU Advances, 2021, 2, e2020AV000304.	5.4	35
77	Cr-rich megacrysts of clinopyroxene and garnet from Lac de Gras kimberlites, Slave Craton, Canada â€" implications for the origin of clinopyroxene and garnet in cratonic lherzolites. Mineralogy and Petrology, 2018, 112, 583-596.	1.1	35
78	The 190Ptâ€"186Os decay system applied to dating platinum-group element mineralization of the Bushveld Complex, South Africa. Chemical Geology, 2012, 302-303, 48-60.	3.3	33
79	Dating Kimberlites: Methods and Emplacement Patterns Through Time. Elements, 2019, 15, 399-404.	0.5	33
80	Plume impingement on the Siberian SCLM: Evidence from Reâ€"Os isotope systematics. Lithos, 2015, 218-219, 141-154.	1.4	32
81	Peridotites from Attawapiskat, Canada: Mesoproterozoic Reworking of Palaeoarchaean Lithospheric Mantle beneath the Northern Superior Superterrane. Journal of Petrology, 2014, 55, 1829-1863.	2.8	31
82	The geological record of base metal sulfides in the cratonic mantle: A microscale 187 Os/ 188 Os study of peridotite xenoliths from Somerset Island, Rae Craton (Canada). Geochimica Et Cosmochimica Acta, 2017, 216, 264-285.	3.9	30
83	Fractionation of highly siderophile elements in refertilized mantle: Implications for the Os isotope composition of basalts. Earth and Planetary Science Letters, 2014, 400, 33-44.	4.4	29
84	Age and evolution of the deep continental root beneath the central Rae craton, northern Canada. Precambrian Research, 2016, 272, 168-184.	2.7	29
85	A routine method for the dissolution of geological samples for the analysis of REE and trace elements via ICP-MS. Special Publication - Royal Society of Chemistry, 2007, , 221-230.	0.0	28
86	The lithospheric-to-lower-mantle carbon cycle recorded in superdeep diamonds. Nature, 2020, 585, 234-238.	27.8	27
87	Deep carbon through time: Earthâ€™s diamond record and its implications for carbon cycling and fluid speciation in the mantle. Geochimica Et Cosmochimica Acta, 2020, 275, 99-122.	3.9	26
88	In situ oxygen-isotope, major-, and trace-element constraints on the metasomatic modification and crustal origin of a diamondiferous eclogite from Roberts Victor, Kaapvaal Craton. Geochimica Et Cosmochimica Acta, 2016, 174, 345-359.	3.9	25
89	Investigating metasomatic effects on the 187Os isotopic signature: A case study on micrometric base metal sulphides in metasomatised peridotite from the Letlhakane kimberlite (Botswana). Lithos, 2015, 232, 35-48.	1.4	23
90	Kyanite/corundum eclogites from the Kaapvaal Craton: subducted troctolites and layered gabbros from the Mid- to Early Archean. Contributions To Mineralogy and Petrology, 2016, 171, 1.	3.1	23

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91	Age, origin, and thermal evolution of the ultra-fresh ~ 1.9 Ga Winnipegosis Komatiites, Manitoba, Canada. Lithos, 2017, 268-271, 114-130.	1.4	22
92	Primordial and recycled helium isotope signatures in the mantle transition zone. Science, 2019, 365, 692-694.	12.6	21
93	Tungsten-182 evidence for an ancient kimberlite source. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	21
94	An oxygen isotope test for the origin of Archean mantle roots. Geochemical Perspectives Letters, 0, , 6-10.	5.0	21
95	Rhenium-osmium isotopes and highly siderophile elements in ultramafic rocks from the Eoarchean Saglek Block, northern Labrador, Canada: implications for Archean mantle evolution. Geochimica Et Cosmochimica Acta, 2017, 216, 286-311.	3.9	20
96	Tungsten Isotope Composition of Archean Crustal Reservoirs and Implications for Terrestrial Î¼¹⁸²W Evolution. Geochemistry, Geophysics, Geosystems, 2020, 21, e2020GC009155.	2.5	20
97	Precise Pb isotope ratio determination of picogram-size samples: A comparison between multiple Faraday collectors equipped with 1012Î© amplifiers and multiple ion counters. Chemical Geology, 2015, 395, 27-40.	3.3	19
98	Dating post-Archean lithospheric mantle: Insights from Re-Os and Lu-Hf isotopic systematics of the Cameroon Volcanic Line peridotites. Geochimica Et Cosmochimica Acta, 2020, 278, 177-198.	3.9	19
99	The U, Th and Pb elemental and isotope compositions of mantle clinopyroxenes and their grain boundary contamination derived from leaching and digestion experiments. Geochimica Et Cosmochimica Acta, 2009, 73, 469-488.	3.9	18
100	Implications for the origins of Eoarchean ultramafic rocks of the North Atlantic Craton: a study of the Tussaap Ultramafic complex, Itsaq Gneiss complex, southern West Greenland. Contributions To Mineralogy and Petrology, 2019, 174, 1.	3.1	18
101	Geochronology of Diamonds. Reviews in Mineralogy and Geochemistry, 2022, 88, 567-636.	4.8	18
102	A Review of the Geology of Global Diamond Mines and Deposits. Reviews in Mineralogy and Geochemistry, 2022, 88, 1-117.	4.8	18
103	The spatial and temporal evolution of primitive melt compositions within the Lac de Gras kimberlite field, Canada: Source evolution vs lithospheric mantle assimilation. Lithos, 2021, 392-393, 106142.	1.4	17
104	The transition zone as a host for recycled volatiles: Evidence from nitrogen and carbon isotopes in ultra-deep diamonds from Monastery and Jagersfontein (South Africa). Chemical Geology, 2017, 466, 733-749.	3.3	17
105	A reconnaissance view of tungsten reservoirs in some crustal and mantle rocks: Implications for interpreting W isotopic compositions and crust-mantle W cycling. Geochimica Et Cosmochimica Acta, 2018, 223, 300-318.	3.9	16
106	Diamonds and the Mantle Geodynamics of Carbon. , 2019, , 89-128.		16
107	Oxidation of the deep big mantle wedge by recycled carbonates: Constraints from highly siderophile elements and osmium isotopes. Geochimica Et Cosmochimica Acta, 2021, 295, 207-223.	3.9	15
108	No mantle residues in the Isua Supracrustal Belt. Earth and Planetary Science Letters, 2022, 579, 117348.	4.4	15

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109	Diamondiferous Paleoproterozoic mantle roots beneath Arctic Canada: A study of mantle xenoliths from Parry Peninsula and Central Victoria Island. Geochimica Et Cosmochimica Acta, 2018, 239, 284-311.	3.9	14
110	The Metasomatized Mantle beneath the North Atlantic Craton: Insights from Peridotite Xenoliths of the Chidliak Kimberlite Province (NE Canada). Journal of Petrology, 2019, 60, 1991-2024.	2.8	14
111	A Fractional Crystallization Link between Komatiites, Basalts, and Dunites of the Palaeoproterozoic Winnipegosis Komatiite Belt, Manitoba, Canada. Journal of Petrology, 2020, 61, .	2.8	13
112	Mesoarchean melting and Neoarchean to Paleoproterozoic metasomatism during the formation of the cratonic mantle keel beneath West Greenland. Geochimica Et Cosmochimica Acta, 2017, 203, 37-53.	3.9	12
113	The komatiite-mantle platinum-group element paradox. Geochimica Et Cosmochimica Acta, 2021, 313, 214-242.	3.9	12
114	Eclogites and garnet pyroxenites from Kimberley, Kaapvaal craton, South Africa: their diverse origins and complex metasomatic signatures. Mineralogy and Petrology, 2018, 112, 43-56.	1.1	11
115	Fluid-induced transition from banded kyanite- to bimineralic eclogite and implications for the evolution of cratons. Geochimica Et Cosmochimica Acta, 2017, 207, 19-42.	3.9	10
116	A Palaeoproterozoic diamond-bearing lithospheric mantle root beneath the Archean Sask Craton, Canada. Lithos, 2020, 356-357, 105301.	1.4	10
117	Deserpentinization and high-pressure (eclogite-facies) metamorphic features in the Eoarchean ultramafic body from Isua, Greenland. Geoscience Frontiers, 2022, 13, 101298.	8.4	10
118	Diamond brecciation and annealing accompanying major metasomatism in eclogite xenoliths from the Sask Craton, Canada. Mineralogy and Petrology, 2018, 112, 311-323.	1.1	9
119	Mantle composition, age and geotherm beneath the Darby kimberlite field, west central Rae Craton. Mineralogy and Petrology, 2018, 112, 57-70.	1.1	9
120	The evolution of the Kaapvaal craton: A multi-isotopic perspective from lithospheric peridotites from Finsch diamond mine. Precambrian Research, 2019, 331, 105380.	2.7	9
121	Detrital chromites reveal Slave craton's missing komatiite. Geology, 2021, 49, 1079-1083.	4.4	9
122	Modification of Lithospheric Mantle by Melts/Fluids With Different Sulfur Fugacities During the Wilson Cycle: Insights From Lesvos and Global Ophiolitic Peridotites. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022445.	3.4	9
123	A latest Pleistocene and Holocene composite tephrostratigraphic framework for northeastern North America. Quaternary Science Reviews, 2021, 272, 107242.	3.0	9
124	Heterogeneous kimberlite metasomatism revealed from a combined He-Os isotope study of Siberian megacrystalline dunite xenoliths. Geochimica Et Cosmochimica Acta, 2019, 266, 220-236.	3.9	8
125	Mesoarchean diamonds formed in thickened lithosphere, caused by slab-stacking. Earth and Planetary Science Letters, 2022, 592, 117633.	4.4	8
126	Element and isotopic signature of re-fertilized mantle peridotite as determined by nanopowder and olivine LA-ICPMS analyses. Chemical Geology, 2020, 536, 119464.	3.3	7

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127	Oxidation state and metasomatism of the lithospheric mantle beneath the Rae Craton, Canada: strong gradients reflect craton formation and evolution. Scientific Reports, 2021, 11, 3684.	3.3	7
128	Osmium isotopes in peridotite xenoliths reveal major mid-Proterozoic lithosphere formation under the Transantarctic Mountains. Geochimica Et Cosmochimica Acta, 2021, 312, 25-43.	3.9	6
129	Metasomatic Modification of the Mesoarchaean Ulamertoq Ultramafic Body, Southern West Greenland. Journal of Petrology, 2022, 63, .	2.8	6
130	Olivine xenocrysts reveal carbonated mid-lithosphere in the northern Slave craton. Lithos, 2022, 414-415, 106633.	1.4	6
131	Heat Generation in Cratonic Mantle Rootsâ€"New Trace Element Constraints From Mantle Xenoliths and Implications for Cratonic Geotherms. Geochemistry, Geophysics, Geosystems, 2021, 22, e2021GC009691.	2.5	5
132	Extent and age of Mesoarchean components in the Nagssugtoqidian orogen, West Greenland: Implications for tectonic environments and crust building in cratonic orogenic belts. Lithos, 2021, 396-397, 106182.	1.4	5
133	Fingerprinting the Cretaceous-Paleogene boundary impact with Zn isotopes. Nature Communications, 2021, 12, 4128.	12.8	4
134	Comment on â€œDiscovery of davemaoite, CaSiO ₃ -perovskite, as a mineral from the lower mantleâ€. Science, 2022, 376, eabo0882.	12.6	4
135	Architecture and evolution of the lithospheric roots beneath circum-cratonic orogenic beltsâ€"The Xing'an Mongolia Orogenic Belt and its relationship with adjacent North China and Siberian cratonic roots. Lithos, 2020, 376-377, 105798.	1.4	3
136	Age and provenance of the lithospheric mantle beneath the Chidliak kimberlite province, southern Baffin Island: Implications for the evolution of the North Atlantic Craton. Lithos, 2021, 390-391, 106124.	1.4	3
137	Controls on the Emplacement Style of Coherent Kimberlites in the Lac de Gras Field, Canada. Journal of Petrology, 2022, 63, .	2.8	3
138	Pyroxenitic magma conduits (ca. 1.86ÂGa) in Wopmay orogen and slave craton: Petrogenetic constraints from whole rock and mineral chemistry. Lithos, 2020, 354-355, 105220.	1.4	1