Dg Pearson

List of Publications by Year
in descending order

73 papers	5,716 citations	76196 40 h-index	85405 71 g-index
75 all docs	75 docs citations	75 times ranked	3222 citing authors

#	ARTICLE	IF	CITATIONS
1	No mantle residues in the Isua Supracrustal Belt. Earth and Planetary Science Letters, 2022, 579, 117348.	1.8	15
2	Mesoarchean diamonds formed in thickened lithosphere, caused by slab-stacking. Earth and Planetary Science Letters, 2022, 592, 117633.	1.8	8
3	Geochronology of scapolite pegmatites from the NordÃ¸yane ultra-high-pressure domain, Western Gneiss Region, Norway: Protracted crystal-melt reaction during Scandian exhumation. Lithos, 2022, 424-425, 106756.	0.6	1
4	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.	0.6	5
5	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.	1.6	26
6	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.	1.4	44
7	The application of trace elements and Srâ€“Pb isotopes to dating and tracing ruby formation: The Aappaluttoq deposit, SW Greenland. Chemical Geology, 2019, 523, 42-58.	1.4	10
8	Diamond-forming media through time â€“ Trace element and noble gas systematics of diamonds formed over 3 billion years of Earthâ€™s history. Geochimica Et Cosmochimica Acta, 2019, 257, 266-283.	1.6	9
9	Continent stabilisation by lateral accretion of subduction zone-processed depleted mantle residues; insights from Zealandia. Earth and Planetary Science Letters, 2019, 507, 175-186.	1.8	50
10	A common parentage-low abundance trace element data of gem diamonds reveals similar fluids to fibrous diamonds. Lithos, 2019, 324-325, 356-370.	0.6	20
11	The uniquely high-temperature character of Cullinan diamonds: A signature of the Bushveld mantle plume?. Lithos, 2018, 304-307, 362-373.	0.6	18
12	Hydrothermally-altered mafic crust as source for early Earth TTG: Pb/Hf/O isotope and trace element evidence in zircon from TTG of the Eoarchean Saglek Block, N. Labrador. Earth and Planetary Science Letters, 2018, 503, 95-107.	1.8	46
13	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.	0.9	42
14	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.	1.6	12
15	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.	1.6	30
16	Fluid-induced transition from banded kyanite- to bimineralic eclogite and implications for the evolution of cratons. Geochimica Et Cosmochimica Acta, 2017, 207, 19-42.	1.6	10
17	The aluminum-in-olivine thermometer for mantle peridotites â€” Experimental versus empirical calibration and potential applications. Lithos, 2017, 272-273, 301-314.	0.6	63
18	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.	1.4	17

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19	Evidence for H2O-bearing fluids in the lower mantle from diamond inclusion. Lithos, 2016, 265, 237-243.	0.6	57
20	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.	1.6	25
21	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.	0.6	23
22	Plume impingement on the Siberian SCLM: Evidence from Reâ€“Os isotope systematics. Lithos, 2015, 218-219, 141-154.	0.6	32
23	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.	0.6	48
24	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.	1.4	19
25	Mantle Samples Included in Volcanic Rocks. , 2014, , 169-253.		40
26	The Formation and Evolution of Cratonic Mantle Lithosphere â€“ Evidence from Mantle Xenoliths. , 2014, , 255-292.		80
27	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.	1.6	42
28	An eclogitic diamond from Mir pipe (Yakutia), recording two growth events from different isotopic sources. Chemical Geology, 2014, 381, 40-54.	1.4	32
29	Reâ€“Os dating of sulphide inclusions zonally distributed in single Yakutian diamonds: Evidence for multiple episodes of Proterozoic formation and protracted timescales of diamond growth. Geochimica Et Cosmochimica Acta, 2013, 120, 363-394.	1.6	56
30	Multiple growth events, processes and fluid sources involved in diamond genesis: A micro-analytical study of sulphide-bearing diamonds from Finsch mine, RSA. Geochimica Et Cosmochimica Acta, 2013, 106, 51-70.	1.6	31
31	Isotopic tracing of the impact of mobility on infectious disease: The origin of people with treponematosis buried in hull, England, in the late medieval period. American Journal of Physical Anthropology, 2013, 150, 273-285.	2.1	24
32	Micron-scale coupled carbon isotope and nitrogen abundance variations in diamonds: Evidence for episodic diamond formation beneath the Siberian Craton. Geochimica Et Cosmochimica Acta, 2013, 100, 176-199.	1.6	42
33	High temperature strontium stable isotope behaviour in the early solar system and planetary bodies. Earth and Planetary Science Letters, 2012, 329-330, 31-40.	1.8	72
34	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.	1.4	33
35	Trace elements in gem diamond from Akwatia, Ghana and DeBeers Pool, South Africa. Chemical Geology, 2012, 314-317, 1-8.	1.4	13
36	From source to crust: Tracing magmatic evolution in a kimberlite and a melilitite using microsample geochemistry. Earth and Planetary Science Letters, 2010, 299, 80-90.	1.8	53

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37	Reâ€“Os isotope and PGE constraints on the timing and origin of gold mineralisation in the Witwatersrand Basin. Chemical Geology, 2010, 276, 88-94.	1.4	23
38	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.	1.4	79
39	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.	0.6	65
40	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.	0.6	211
41	Crystallization of megacrysts from protokimberlitic fluids: Geochemical evidence from high-Cr megacrysts in the Jericho kimberlite. Lithos, 2009, 112, 284-295.	0.6	97
42	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.	1.8	56
43	Petrogenesis of strongly alkaline primitive volcanic rocks at the propagating tip of the western branch of the East African Rift. Earth and Planetary Science Letters, 2009, 284, 236-248.	1.8	168
44	Combined Sr isotope and trace element analysis of melt inclusions at sub-ng levels using micro-milling, TIMS and ICPMS. Chemical Geology, 2009, 260, 254-268.	1.4	30
45	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.	1.6	86
46	An alternative model for silica enrichment in the Kaapvaal subcontinental lithospheric mantle. Geochimica Et Cosmochimica Acta, 2009, 73, 6894-6917.	1.6	21
47	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.	1.8	91
48	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.	1.4	58
49	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.	1.4	63
50	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.	1.4	57
51	Formation of Archaean continental lithosphere and its diamonds: the root of the problem. Journal of the Geological Society, 2008, 165, 895-914.	0.9	240
52	Combining CSD and isotopic microanalysis: Magma supply and mixing processes at Stromboli Volcano, Aeolian Islands, Italy. Earth and Planetary Science Letters, 2007, 260, 419-431.	1.8	69
53	Methods for the microsampling and high-precision analysis of strontium and rubidium isotopes at single crystal scale for petrological and geochronological applications. Chemical Geology, 2006, 232, 114-133.	1.4	246
54	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.	1.4	290

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55	Garnet lherzolites from Louwrensia, Namibia: bulk composition and P/T relationsâ˜†. Lithos, 2004, 77, 573-592.	0.6	70
56	Mantle Samples Included in Volcanic Rocks: Xenoliths and Diamonds. , 2003, , 171-275.		259
57	Microanalysis of Î´13C, Î´15N, and N abundances in diamonds by secondary ion mass spectrometry. Chemical Geology, 2002, 185, 149-163.	1.4	67
58	Carbon and nitrogen isotope systematics within a sector-growth diamond from the Mir kimberlite, Yakutia. Chemical Geology, 2002, 188, 105-123.	1.4	83
59	The development of acidic groundwaters in coal-bearing strata: Part I. Rare earth element fingerprinting. Applied Geochemistry, 2001, 16, 1465-1480.	1.4	40
60	Water-rock interaction in an acidic mine discharge as indicated by rare earth element patterns. Geochimica Et Cosmochimica Acta, 2001, 65, 3027-3040.	1.6	93
61	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.	1.4	265
62	The age of continental roots. Lithos, 1999, 48, 171-194.	0.6	260
63	The age of continental roots. Developments in Geotectonics, 1999, 24, 171-194.	0.3	9
64	Re-Os isotope measurements of single sulfide inclusions in a Siberian diamond and its nitrogen aggregation systematics. Geochimica Et Cosmochimica Acta, 1999, 63, 703-711.	1.6	90
65	Chemical and temporal variations in the Earth's lithosphere. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 1999, 357, 647-669.	1.6	8
66	The petrogenesis of the eastern Pyrenean peridotites: an integrated study of their whole-rock geochemistry and Re-Os isotope composition. Geochimica Et Cosmochimica Acta, 1998, 62, 2293-2310.	1.6	83
67	Sulphide inclusions in diamonds from the Koffiefontein kimberlite, S Africa: constraints on diamond ages and mantle Reâ€“Os systematics. Earth and Planetary Science Letters, 1998, 160, 311-326.	1.8	176
68	Re-Os, Sm-Nd, and Rb-Sr isotope evidence for thick Archaean lithospheric mantle beneath the Siberian craton modified by multistage metasomatism. Geochimica Et Cosmochimica Acta, 1995, 59, 959-977.	1.6	3
69	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.	1.8	400
70	Reî—¸Os, Smî—¸Nd, and Rbî—¸Sr isotope evidence for thick Archaean lithospheric mantle beneath the Siberian craton modified by multistage metasomatism. Geochimica Et Cosmochimica Acta, 1995, 59, 959-977.	1.6	344
71	Ferric iron in peridotites and mantle oxidation states. Earth and Planetary Science Letters, 1994, 123, 205-220.	1.8	219
72	Oxygen isotope evidence for the origin of pyroxenites in the Beni Bousera peridotite massif, North Morocco: derivation from subducted oceanic lithosphere. Earth and Planetary Science Letters, 1991, 102, 289-301.	1.8	105

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73	Onset of new, progressive crustal growth in the central Slave craton at 3.55 Ga. Geochemical Perspectives Letters, 0, , 8-13.	1.0	36