## Ray Burgess

## List of Publications by Year in descending order

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		81900	133252
88	3,841	39	59
papers	citations	h-index	g-index
89	89	89	3070
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Fluid inclusion noble gas and halogen evidence on the origin of Cu-Porphyry mineralising fluids. Geochimica Et Cosmochimica Acta, 2001, 65, 2651-2668.	3.9	201
2	Nitrogen Isotopic Composition and Density of the Archean Atmosphere. Science, 2013, 342, 101-104.	12.6	156
3	Noble gas and halogen geochemistry of mantle fluids: comparison of African and Canadian diamonds. Geochimica Et Cosmochimica Acta, 2000, 64, 717-732.	3.9	128
4	Seawater-derived noble gases and halogens preserved in exhumed mantle wedge peridotite. Earth and Planetary Science Letters, 2010, 294, 163-172.	4.4	113
5	Helium–strontium isotope constraints on mantle evolution beneath the Roman Comagmatic Province, Italy. Earth and Planetary Science Letters, 2004, 224, 295-308.	4.4	104
6	Argon isotopic composition of Archaean atmosphere probes early Earth geodynamics. Nature, 2013, 498, 87-90.	27.8	103
7	Chondritic-like xenon trapped in Archean rocks: A possible signature of the ancient atmosphere. Earth and Planetary Science Letters, 2011, 308, 298-306.	4.4	96
8	Late Neoproterozoic overprinting of the cassiterite and columbite-tantalite bearing pegmatites of the Gatumba area, Rwanda (Central Africa). Journal of African Earth Sciences, 2011, 61, 10-26.	2.0	90
9	Diamondiferous kimberlites in central India synchronous with Deccan flood basalts. Earth and Planetary Science Letters, 2010, 290, 142-149.	4.4	88
10	Halogen and Ar–Ar age determinations of inclusions within quartz veins from porphyry copper deposits using complementary noble gas extraction techniques. Chemical Geology, 2001, 177, 351-370.	3.3	84
11	Constraints on the age and halogen composition of mantle fluids in Siberian coated diamonds. Earth and Planetary Science Letters, 2002, 197, 193-203.	4.4	84
12	The helium flux from the continents and ubiquity of low-3He/4He recycled crust and lithosphere. Geochimica Et Cosmochimica Acta, 2015, 153, 116-133.	3.9	83
13	Evolution of atmospheric xenon and other noble gases inferred from Archean to Paleoproterozoic rocks. Geochimica Et Cosmochimica Acta, 2018, 232, 82-100.	3.9	81
14	Northwest Africa 032: Product of lunar volcanism. Meteoritics and Planetary Science, 2002, 37, 371-394.	1.6	74
15	Extinct 129I in Halite from a Primitive Meteorite: Evidence for Evaporite Formation in the Early Solar System. Science, 2000, 288, 1819-1821.	12.6	73
16	40Ar39Ar analysis of perthite microtextures and fluid inclusions in alkali feldspars from the Klokken syenite, South Greenland. Earth and Planetary Science Letters, 1992, 109, 147-167.	4.4	71
17	Hydrothermal Fluid Origins in a Fluorite-Rich Mississippi Valley-Type District: Combined Noble Gas (He,) Tj ETQq1 1 Kingdom. Economic Geology, 2002, 97, 435-451.		4 rgBT /Over 69
18	Hydrothermal Fluid Origins in Mississippi Valley-Type Ore Districts: Combined Noble Gas (He, Ar, Kr) and Halogen (Cl, Br, I) Analysis of Fluid Inclusions from the Illinois-Kentucky Fluorspar District, Viburnum Trend, and Tri-State Districts, Midcontinent United States. Economic Geology, 2002, 97, 453-469.	3.8	68

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19	<sup>40</sup> Arâ€ <sup>39</sup> Ar chronology of lunar meteorites Northwest Africa 032 and 773. Meteoritics and Planetary Science, 2003, 38, 555-564.	1.6	66
20	New age constraints for the geodynamic evolution of the Sistan Suture Zone, eastern Iran. Lithos, 2013, 170-171, 17-34.	1.4	66
21	The contribution of hydrothermally altered ocean crust to the mantle halogen and noble gas cycles. Geochimica Et Cosmochimica Acta, 2016, 183, 106-124.	3.9	64
22	Determination of sulphurâ€bearing components in C1 and C2 carbonaceous chondrites by stepped combustion. Meteoritics, 1991, 26, 55-64.	1.4	63
23	Experimental partitioning of F and Cl between olivine, orthopyroxene and silicate melt at Earth's mantle conditions. Chemical Geology, 2015, 416, 65-78.	3.3	62
24	Geochemistry, petrology and ages of the lunar meteorites Kalahari 008 and 009: New constraints on early lunar evolution. Geochimica Et Cosmochimica Acta, 2008, 72, 4845-4873.	3.9	59
25	Petrogenesis and chronology of lunar meteorite Northwest Africa 4472: A KREEPy regolith breccia from the Moon. Geochimica Et Cosmochimica Acta, 2011, 75, 2420-2452.	3.9	58
26	Halogens in chondritic meteorites and terrestrial accretion. Nature, 2017, 551, 614-618.	27.8	58
27	Volatile-rich mantle fluids inferred from inclusions in diamond and mantle xenoliths. Nature, 1990, 344, 653-655.	27.8	56
28	End-Permian extinction amplified by plume-induced release of recycled lithospheric volatiles. Nature Geoscience, 2018, 11, 682-687.	12.9	55
29	Noble gas and halogen evidence for the origin of Scandinavian sandstone-hosted Pb-Zn deposits. Geochimica Et Cosmochimica Acta, 2005, 69, 109-129.	3.9	54
30	The origin and degassing history of the Earth's atmosphere revealed by Archean xenon. Nature Communications, 2017, 8, 15455.	12.8	51
31	40Ar-39Ar laser probe studies of clinopyroxene inclusions in eclogitic diamonds. Geochimica Et Cosmochimica Acta, 1992, 56, 389-402.	3.9	50
32	Volcano–ice interactions at Prestahnúkur, Iceland: rhyolite eruption during the last interglacial–glacial transition. Annals of Glaciology, 2007, 45, 38-47.	1.4	50
33	Structure and geological history of the Carboneras Fault Zone, SE Spain: Part of a stretching transform fault system. Journal of Structural Geology, 2012, 45, 68-86.	2.3	49
34	Sedimentary halogens and noble gases within Western Antarctic xenoliths: Implications of extensive volatile recycling to the sub continental lithospheric mantle. Geochimica Et Cosmochimica Acta, 2016, 176, 139-156.	3.9	46
35	In search of a hidden long-term isolated sub-chondritic 142Nd/144Nd reservoir in the deep mantle: Implications for the Nd isotope systematics of the Earth. Geochimica Et Cosmochimica Acta, 2010, 74, 738-750.	3.9	45
36	Genesis of the vein-type tungsten mineralization at Nyakabingo (Rwanda) in the Karagwe–Ankole belt, Central Africa. Mineralium Deposita, 2016, 51, 283-307.	4.1	45

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37	The development of volcanic hosted massive sulfide and barite–gold orebodies on Wetar Island, Indonesia. Mineralium Deposita, 2005, 40, 76-99.	4.1	44
38	He, Ar and C isotopes in coated and polycrystalline diamonds. Chemical Geology, 1998, 146, 205-217.	3.3	43
39	40Ar39Ar laser probe dating of individual clinopyroxene inclusions in Premier eclogitic diamonds. Earth and Planetary Science Letters, 1989, 94, 22-28.	4.4	39
40	Volatile composition of microinclusions in diamonds from the Panda kimberlite, Canada: Implications for chemical and isotopic heterogeneity in the mantle. Geochimica Et Cosmochimica Acta, 2009, 73, 1779-1794.	3.9	39
41	Geochemistry and geochronology of the ~620 Ma gold-associated Batouri granitoids, Cameroon. International Geology Review, 2015, 57, 1485-1509.	2.1	38
42	Distribution of sulphides and oxidised sulphur components in SNC meteorites. Earth and Planetary Science Letters, 1989, 93, 314-320.	4.4	36
43	<sup>40</sup> Arâ€ <sup>39</sup> Ar age determinations of lunar basalt meteorites Asuka 881757, Yamato 793169, Miller Range 05035, La Paz Icefield 02205, Northwest Africa 479, and basaltic breccia Elephant Moraine 96008. Meteoritics and Planetary Science, 2009, 44, 805-821.	1.6	36
44	40Ar/39Ar ages of mafic dykes from the Mesoproterozoic Chhattisgarh basin, Bastar craton, Central India: Implication for the origin and spatial extent of the Deccan Large Igneous Province. Lithos, 2011, 125, 994-1005.	1.4	34
45	Laser argonâ€40â€argonâ€39 age determinations of Luna 24 mare basalts. Meteoritics and Planetary Science, 1998, 33, 921-935.	1.6	33
46	<sup>40</sup> Ar/ <sup>39</sup> Ar age of the Cabo de Gata volcanic series and displacements on the Carboneras fault zone, SE Spain. Journal of the Geological Society, 2000, 157, 1003-1008.	2.1	33
47	Early Cretaceous exhumation of highâ€pressure metamorphic rocks of the Sistan Suture Zone, eastern Iran. Geological Journal, 2009, 44, 104-116.	1.3	33
48	Petrology, geochemistry, and age of low-Ti mare-basalt meteorite Northeast Africa 003-A: A possible member of the Apollo 15 mare basaltic suite. Geochimica Et Cosmochimica Acta, 2009, 73, 3450-3470.	3.9	33
49	Laser argonâ€40â€argonâ€39 age studies of Dar al Gani 262 lunar meteorite. Meteoritics and Planetary Science, 2000, 35, 1355-1364.	1.6	32
50	Determination of halogen abundances in terrestrial and extraterrestrial samples by the analysis of noble gases produced by neutron irradiation. Chemical Geology, 2016, 437, 77-87.	3.3	32
51	Laser microprobe stable isotope measurements on geological materials: Some experimental considerations (with special reference tol´34S in sulphides). Chemical Geology: Isotope Geoscience Section, 1992, 101, 53-61.	0.6	30
52	Silicic volcanism at Ljósufjöll, Iceland: Insights into evolution and eruptive history from Ar–Ar dating. Journal of Volcanology and Geothermal Research, 2008, 169, 154-175.	2.1	30
53	Constraints on the timing of late-Eburnean metamorphism, gold mineralisation and regional exhumation at Damang mine, Ghana. Precambrian Research, 2014, 243, 18-38.	2.7	29
54	Geological setting and timing of the world-class Sn, Nb–Ta and Li mineralization of Manono-Kitotolo (Katanga, Democratic Republic of Congo). Ore Geology Reviews, 2016, 72, 373-390.	2.7	29

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55	Rhyolites at Kerlingarfjöll, Iceland: the evolution and lifespan of silicic central volcanoes. Bulletin of Volcanology, 2010, 72, 523-538.	3.0	28
56	Slab-derived halogens and noble gases illuminate closed system processes controlling volatile element transport into the mantle wedge. Earth and Planetary Science Letters, 2017, 457, 106-116.	4.4	28
57	Martian fluid and Martian weathering signatures identified in Nakhla, NWA 998 and MIL 03346 by halogen and noble gas analysis. Geochimica Et Cosmochimica Acta, 2013, 105, 255-293.	3.9	27
58	Ar–Ar age determinations of eclogitic clinopyroxene and garnet inclusions in diamonds from the Venetia and Orapa kimberlites. Lithos, 2004, 77, 113-124.	1.4	25
59	Re–Os and 40Ar/39Ar isotope measurements of inclusions in alluvial diamonds from the Ural Mountains: Constraints on diamond genesis and eruption ages. Lithos, 2009, 112, 714-723.	1.4	25
60	Volcanism in Mare Fecunditatis and Mare Crisium: Ar-Ar age studies. Geochimica Et Cosmochimica Acta, 2005, 69, 4919-4934.	3.9	23
61	Noble gases fingerprint a metasedimentary fluid source in the Macraes orogenic gold deposit, New Zealand. Mineralium Deposita, 2017, 52, 197-209.	4.1	21
62	From Submarine to Subaerial Outâ€ofâ€Sequence Thrusting and Gravityâ€Driven Extensional Faulting: Gran Sasso Massif, Central Apennines, Italy. Tectonics, 2019, 38, 4155-4184.	2.8	21
63	Deep-mantle-derived noble gases in metamorphic diamonds from the Kokchetav massif, Kazakhstan. Earth and Planetary Science Letters, 2011, 307, 439-449.	4.4	20
64	Argon and halogen geochemistry of hydrothermal fluids in the Loch Ainort granite, Isle of Skye, Scotland. Contributions To Mineralogy and Petrology, 1994, 115, 345-355.	3.1	19
65	Fluid mixing and thermal regimes beneath the PACMANUS hydrothermal field, Papua New Guinea: Helium and oxygen isotope data. Earth and Planetary Science Letters, 2011, 304, 93-102.	4.4	16
66	Noble gas signals in corals predict submarine volcanic eruptions. Chemical Geology, 2018, 480, 28-34.	3.3	16
67	Geological setting and timing of the cassiterite vein type mineralization of the Kalima area (Maniema,) Tj ETQq $1\ 1$	0,78431 2.0	4 rgBT /Over
68	Effect of water on the fluorine and chlorine partitioning behavior between olivine and silicate melt. Contributions To Mineralogy and Petrology, 2017, 172, 15.	3.1	15
69	Halogen behaviour in subduction zones: Eclogite facies rocks from the Western and Central Alps. Geochimica Et Cosmochimica Acta, 2018, 243, 1-23.	3.9	15
70	The origin and history of ordinary chondrites: A study by iron isotope measurements of metal grains from ordinary chondrites. Geochimica Et Cosmochimica Acta, 2008, 72, 4440-4456.	3.9	13
71	Petrology, 40Ar/39Ar age, Sr-Nd isotope systematics, and geodynamic significance of an ultrapotassic (lamproitic) dyke with affinities to kamafugite from the easternmost margin of the Bastar Craton, India. Mineralogy and Petrology, 2016, 110, 269-293.	1.1	13
72	Geology, geochemistry and 40Ar/39Ar ages of the Cerro Millo epithermal high-sulfidation gold prospect, southern Peru. Ore Geology Reviews, 2008, 34, 304-316.	2.7	10

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73	Short lived 36Cl and its decay products 36Ar and 36S in the early solar system. Geochimica Et Cosmochimica Acta, 2013, 123, 358-367.	3.9	10
74	Disequilibrium degassing model determination of the 3He concentration and 3He/22Ne of the MORB and OIB mantle sources. Earth and Planetary Science Letters, 2015, 410, 128-139.	4.4	9
75	LATE CRETACEOUS BONANZA-STYLE METAL ENRICHMENT IN THE SERRA PELADA Au-Pd-Pt DEPOSIT, PARA, BRAZIL. Economic Geology, 2011, 106, 119-125.	3.8	8
76	A record of Antarctic surface temperature between 25 and 50 m.y. ago. Geology, 2011, 39, 423-426.	4.4	8
77	Constraints on the movement history of the Carboneras Fault Zone (SE Spain) from stratigraphy and <sup>40</sup> Ar– <sup>39</sup> Ar dating of Neogene volcanic rocks. Geological Society Special Publication, 2014, 394, 79-99.	1.3	8
78	Halogen Heterogeneity in the Lithosphere and Evolution of Mantle Halogen Abundances Inferred From Intraplate Mantle Xenoliths. Geochemistry, Geophysics, Geosystems, 2019, 20, 952-973.	2.5	8
79	Archean to Paleoproterozoic seawater halogen ratios recorded by fluid inclusions in chert and hydrothermal quartz. American Mineralogist, 2020, 105, 1317-1325.	1.9	8
80	40Ar/1b39 Ar laser microprobe study of fluids in different colour zones of a hydrothermal scheelite crystal from the Dae Hwa Wî—,Mo mine, South Korea. Chemical Geology, 1992, 102, 259-267.	3.3	6
81	Terrestrial and Martian weathering signatures of xenon components in shergottite mineral separates. Meteoritics and Planetary Science, 2010, 45, 1359-1379.	1.6	6
82	Complex circular subsidence structures in tephra deposited on large blocks of ice: $Var\tilde{A}^o$ a tuff cone, $\tilde{A}-r\tilde{A}^l_1$ faj $\tilde{A}^q$ kull, Iceland. Bulletin of Volcanology, 2016, 78, 56.	3.0	6
83	Halogen variations through the quenched margin of a <scp>M</scp> ORB lava: Evidence for direct assimilation of seawater during eruption. Geochemistry, Geophysics, Geosystems, 2017, 18, 2413-2428.	2.5	5
84	Halogens in Eclogite Facies Minerals from the Western Gneiss Region, Norway. Minerals (Basel,) Tj ETQq0 0 0 rg	BT /Overlo	ock 10 Tf 50 3
85	Reply to comment on "Chondritic-like xenon trapped in Archean rocks: A possible signature of the ancient atmosphere―by Pujol, M., Marty, B., Burgess, R., Earth and Planetary Science Letters 308 (2011) 298–306 by Pepin, R.O Earth and Planetary Science Letters, 2013, 371-372, 296-298.	4.4	3
86	The other isotopes: research avenues based on 36Ar, 37Ar and 38Ar. Geological Society Special Publication, 2014, 378, 175-188.	1.3	2
87	Magmatic volatiles and platinum-group element mineralization in the Stillwater layered intrusion, U.S.A American Mineralogist, 2022, 107, 797-814.	1.9	1
88	Bimodal Alteration of the Oceanic Crust Revealed by Halogen and Noble Gas Systematics in the Oman Ophiolite. Journal of Geophysical Research: Solid Earth, 2022, 127, e2021JB022669.	3.4	1