

Peter Barry

List of Publications by Year in descending order

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69
papers

2,223
citations

172457

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233421

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77
all docs

77
docs citations

77
times ranked

1802
citing authors

#	ARTICLE	IF	CITATIONS
1	The principles of helium exploration. <i>Petroleum Geoscience</i> , 2022, 28, .	1.5	19
2	Evidence from gas-rich ultramafic xenoliths for Superplume-derived recycled volatiles in the East African sub-continental mantle. <i>Chemical Geology</i> , 2022, 589, 120682.	3.3	2
3	High helium reservoirs in the Four Corners area of the Colorado Plateau, USA. <i>Chemical Geology</i> , 2022, 596, 120790.	3.3	12
4	Basin architecture controls on the chemical evolution and ⁴ He distribution of groundwater in the Paradox Basin. <i>Earth and Planetary Science Letters</i> , 2022, 589, 117580.	4.4	6
5	Subduction-Driven Volatile Recycling: A Global Mass Balance. <i>Annual Review of Earth and Planetary Sciences</i> , 2021, 49, 37-70.	11.0	65
6	Nitrogen and noble gases reveal a complex history of metasomatism in the Siberian lithospheric mantle. <i>Earth and Planetary Science Letters</i> , 2021, 556, 116707.	4.4	6
7	Groundwater residence time estimates obscured by anthropogenic carbonate. <i>Science Advances</i> , 2021, 7, .	10.3	10
8	The use of noble gas isotopes to trace subsurface boiling temperatures in Icelandic geothermal systems. <i>Earth and Planetary Science Letters</i> , 2021, 560, 116805.	4.4	14
9	Effect of tectonic processes on biosphere-geosphere feedbacks across a convergent margin. <i>Nature Geoscience</i> , 2021, 14, 301-306.	12.9	32
10	Linking deeply-sourced volatile emissions to plateau growth dynamics in southeastern Tibetan Plateau. <i>Nature Communications</i> , 2021, 12, 4157.	12.8	42
11	Helium-carbon systematics of groundwaters in the Lassen Peak Region. <i>Chemical Geology</i> , 2021, 584, 120535.	3.3	3
12	The origin of high helium concentrations in the gas fields of southwestern Tanzania. <i>Chemical Geology</i> , 2021, 585, 120542.	3.3	14
13	Recycling of nitrogen and light noble gases in the Central American subduction zone: Constraints from ¹⁵ N/ ¹⁵ N. <i>Earth and Planetary Science Letters</i> , 2021, 571, 117112.	4.4	7
14	Determining the role of diffusion and basement flux in controlling ⁴ He distribution in sedimentary basin fluids. <i>Earth and Planetary Science Letters</i> , 2021, 574, 117175.	4.4	11
15	Investigating the effect of enhanced oil recovery on the noble gas signature of casing gases and produced waters from selected California oil fields. <i>Chemical Geology</i> , 2021, 584, 120540.	3.3	6
16	Noble gas signatures constrain oil-field water as the carrier phase of hydrocarbons occurring in shallow aquifers in the San Joaquin Basin, USA. <i>Chemical Geology</i> , 2021, 584, 120491.	3.3	7
17	He, Ne, Ar and CO ₂ systematics of the Rungwe Volcanic Province, Tanzania: Implications for fluid source and dynamics. <i>Chemical Geology</i> , 2021, 586, 120584.	3.3	6
18	High ³ He/ ⁴ He in central Panama reveals a distal connection to the Galpagos plume. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	12

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19	Rapid microbial methanogenesis during CO ₂ storage in hydrocarbon reservoirs. <i>Nature</i> , 2021, 600, 670-674.	27.8	54
20	The use of noble gas isotopes to constrain subsurface fluid flow and hydrocarbon migration in the East Texas Basin. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 268, 186-208.	3.9	22
21	Helium concentrations and isotope compositions in 10Åkm deep groundwaters. <i>Chemical Geology</i> , 2020, 533, 119442.	3.3	2
22	An evaluation of the C/N ratio of the mantle from natural CO ₂ -rich gas analysis: Geochemical and cosmochemical implications. <i>Earth and Planetary Science Letters</i> , 2020, 551, 116574.	4.4	38
23	Identification of chondritic krypton and xenon in Yellowstone gases and the timing of terrestrial volatile accretion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 13997-14004.	7.1	35
24	Volatile sources, sinks and pathways: A heliumâ€carbon isotope study of Baja California fluids and gases. <i>Chemical Geology</i> , 2020, 550, 119722.	3.3	21
25	Hydrothermal ¹⁵ N/ ¹⁵ N abundances constrain the origins of mantle nitrogen. <i>Nature</i> , 2020, 580, 367-371.	27.8	50
26	Occurrence and Sources of Radium in Groundwater Associated with Oil Fields in the Southern San Joaquin Valley, California. <i>Environmental Science & Technology</i> , 2019, 53, 9398-9406.	10.0	21
27	Heterogeneous kimberlite metasomatism revealed from a combined He-Os isotope study of Siberian megacrystalline dunite xenoliths. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 266, 220-236.	3.9	8
28	A Novel Method for the Extraction, Purification, and Characterization of Noble Gases in Produced Fluids. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 5588-5597.	2.5	8
29	Forearc carbon sink reduces long-term volatile recycling into the mantle. <i>Nature</i> , 2019, 568, 487-492.	27.8	97
30	Helium, inorganic and organic carbon isotopes of fluids and gases across the Costa Rica convergent margin. <i>Scientific Data</i> , 2019, 6, 284.	5.3	17
31	Carbon Fluxes and Primary Magma CO ₂ Contents Along the Global Midâ€Ocean Ridge System. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 1387-1424.	2.5	74
32	Noble gases in conventional and unconventional petroleum systems. <i>Geological Society Special Publication</i> , 2018, 468, 127-149.	1.3	21
33	Noble Gases in Deepwater Oils of the U.S. Gulf of Mexico. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 4218-4235.	2.5	13
34	Determining gas expulsion vs retention during hydrocarbon generation in the Eagle Ford Shale using noble gases. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 241, 240-254.	3.9	28
35	Tracing enhanced oil recovery signatures in casing gases from the Lost Hills oil field using noble gases. <i>Earth and Planetary Science Letters</i> , 2018, 496, 57-67.	4.4	29
36	End-Permian extinction amplified by plume-induced release of recycled lithospheric volatiles. <i>Nature Geoscience</i> , 2018, 11, 682-687.	12.9	55

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37	Noble Gases. Encyclopedia of Earth Sciences Series, 2018, , 1003-1008.	0.1	0
38	The relationship between mantle pH and the deep nitrogen cycle. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 209, 149-160.	3.9	40
39	Spatially Variable CO_2 Degassing in the Main Ethiopian Rift: Implications for Magma Storage, Volatile Transport, and Rift-Related Emissions. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 3714-3737.	2.5	54
40	Enriched carbon source detected. <i>Nature Geoscience</i> , 2017, 10, 625-627.	12.9	2
41	Determining fluid migration and isolation times in multiphase crustal domains using noble gases. <i>Geology</i> , 2017, 45, 775-778.	4.4	27
42	Noble Gases. Encyclopedia of Earth Sciences Series, 2017, , 1-6.	0.1	1
43	Noble gases solubility models of hydrocarbon charge mechanism in the Sleipner Vest gas field. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 194, 291-309.	3.9	65
44	Recycling of crustal material by the Iceland mantle plume: New evidence from nitrogen elemental and isotope systematics of subglacial basalts. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 176, 206-226.	3.9	34
45	Refertilization of lithospheric mantle beneath the Yangtze craton in south-east China: Evidence from noble gases geochemistry. <i>Gondwana Research</i> , 2016, 38, 289-303.	6.0	21
46	Release of subducted sedimentary nitrogen throughout Earth's mantle. <i>Geochemical Perspectives Letters</i> , 2016, , 148-159.	5.0	45
47	Helium isotopic evidence for modification of the cratonic lithosphere during the Permo-Triassic Siberian flood basalt event. <i>Lithos</i> , 2015, 216-217, 73-80.	1.4	25
48	The helium flux from the continents and ubiquity of low- $^3\text{He}/^4\text{He}$ recycled crust and lithosphere. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 153, 116-133.	3.9	83
49	Plume impingement on the Siberian SCLM: Evidence from Re-Os isotope systematics. <i>Lithos</i> , 2015, 218-219, 141-154.	1.4	32
50	Temporal variations in fumarole gas chemistry at Poás volcano, Costa Rica. <i>Journal of Volcanology and Geothermal Research</i> , 2015, 294, 56-70.	2.1	54
51	Indigenous nitrogen in the Moon: Constraints from coupled nitrogen-noble gas analyses of mare basalts. <i>Earth and Planetary Science Letters</i> , 2015, 431, 195-205.	4.4	29
52	Two-stage polybaric formation of the new enriched, pyroxene-alkalic, ilherzolitic shergottite, NWA 7397. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1812-1830.	1.6	27
53	Komsomolskaya diamondiferous eclogites: evidence for oceanic crustal protoliths. <i>Contributions To Mineralogy and Petrology</i> , 2014, 167, 1.	3.1	35
54	Superplume metasomatism: Evidence from Siberian mantle xenoliths. <i>Lithos</i> , 2014, 184-187, 209-224.	1.4	107

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55	The secondary origin of diamonds: multi-modal radiation tomography of diamondiferous mantle eclogites. <i>International Geology Review</i> , 2014, 56, 1172-1180.	2.1	11
56	Carbon isotope and abundance systematics of Icelandic geothermal gases, fluids and subglacial basalts with implications for mantle plume-related CO ₂ fluxes. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 134, 74-99.	3.9	107
57	Volatile-rich silicate melts from Oldoinyo Lengai volcano (Tanzania): Implications for carbonatite genesis and eruptive behavior. <i>Earth and Planetary Science Letters</i> , 2013, 361, 379-390.	4.4	53
58	Helium and carbon isotope systematics of cold ³ He-CO ₂ vents and hydrothermal gases and fluids from Rungwe Volcanic Province, southern Tanzania. <i>Chemical Geology</i> , 2013, 339, 141-156.	3.3	107
59	Volatile fluxes through the Big Bend section of the San Andreas Fault, California: Helium and carbon-dioxide systematics. <i>Chemical Geology</i> , 2013, 339, 92-102.	3.3	69
60	Gas chemistry and nitrogen isotope compositions of cold mantle gases from Rungwe Volcanic Province, southern Tanzania. <i>Chemical Geology</i> , 2013, 339, 30-42.	3.3	39
61	The metamorphic evolution of the high-pressure Kechros complex in East Rhodope (NE Greece): Implications from Na-Al-rich leucocratic rocks within antigorite serpentinites. <i>Lithos</i> , 2013, 177, 17-33.	1.4	6
62	Mantle ³ He and CO ₂ degassing in carbonic and geothermal springs of Colorado and implications for neotectonics of the Rocky Mountains. <i>Geology</i> , 2013, 41, 495-498.	4.4	44
63	Oxygen isotopes in subducted oceanic crust: A new perspective from Siberian diamondiferous eclogites. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 3479-3493.	2.5	15
64	High precision nitrogen isotope measurements in oceanic basalts using a static triple collection noble gas mass spectrometer. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	20
65	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.	4.0	67
66	Monitoring of temporal and spatial variations in fumarole helium and carbon dioxide characteristics at Poás and Turrialba volcanoes, Costa Rica (2001-2009). <i>Geochemical Journal</i> , 2010, 44, 431-440.	1.0	43
67	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.	3.9	71
68	A new syringe pump apparatus for the retrieval and temporal analysis of helium in groundwaters and geothermal fluids. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	7
69	The Helium and Carbon Isotope Characteristics of the Andean Convergent Margin. <i>Frontiers in Earth Science</i> , 0, 10, .	1.8	14