Jamie D Gilmour

List of Publications by Year
in descending order

47 papers	2,097 citations	471509 17 h-index	243625 44 g-index
47 all docs	47 docs citations	47 times ranked	1769 citing authors

#	Article	IF	Citations
1	Comet 81P/Wild 2 Under a Microscope. Science, 2006, 314, 1711-1716.	12.6	848
2	Isotopic Compositions of Cometary Matter Returned by Stardust. Science, 2006, 314, 1724-1728.	12.6	343
3	Arî—Ar chronology of the Martian meteorite ALH84001: Evidence for the timing of the early bombardment of Mars. Geochimica Et Cosmochimica Acta, 1997, 61, 3835-3850.	3.9	104
4	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
5	RELAX: An ultrasensitive, resonance ionization mass spectrometer for xenon. Review of Scientific Instruments, 1994, 65, 617-625.	1.3	71
6	Extinct 244Pu in Ancient Zircons. Science, 2004, 306, 89-91.	12.6	57
7	The Iâ€Xe chronometer and the early solar system. Meteoritics and Planetary Science, 2006, 41, 19-31.	1.6	54
8	Puâ€“Xe, Uâ€“Xe, Uâ€“Pb chronology and isotope systematics of ancient zircons from Western Australia. Earth and Planetary Science Letters, 2007, 261, 491-499.	4.4	46
9	Characteristics and applications of RELAX, an ultrasensitive resonance ionization mass spectrometer for xenon. Journal of Analytical Atomic Spectrometry, 2008, 23, 938.	3.0	45
10	The iodineâ€xenon system in clasts and chondrules from ordinary chondrites: Implications for early solar system chronology. Meteoritics and Planetary Science, 2000, 35, 445-455.	1.6	42
11	Noble gases and nitrogen in Martian meteorites Dar al Gani 476, Sayh al Uhaymir 005 and Lewis Cliff 88516: EFA and extra neon. Geochimica Et Cosmochimica Acta, 2009, 73, 1505-1522.	3.9	40
12	Cosmochemical and spectroscopic properties of Northwest Africa 7325â€”A consortium study. Meteoritics and Planetary Science, 2016, 51, 3-30.	1.6	32
13	An early Iâ€Xe age for CB chondrite chondrule formation, and a reâ€evaluation of the closure age of Shallowater enstatite. Meteoritics and Planetary Science, 2009, 44, 573-579.	1.6	29
14	A timeâ€“scale of formation of the first solids. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2001, 359, 2037-2048.	3.4	27
15	A resonance ionization mass spectrometer for xenon. Measurement Science and Technology, 1991, 2, 589-595.	2.6	24
16	A resonance ionization time of flight mass spectrometer with a cryogenic sample concentrator for isotopic analysis of krypton from extraterrestrial samples. Journal of Analytical Atomic Spectrometry, 2011, 26, 1763.	3.0	22
17	Iodineâ€xenon studies of BjurbÃ¶le and Parnallee using RELAX. Meteoritics, 1995, 30, 405-411.	1.4	18
18	Constraints on Nucleosynthesis from Xenon Isotopes in Presolar Material. Astrophysical Journal, 2007, 657, 600-608.	4.5	16

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19	Geochemical constraints on the half-life of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Te</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>130</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>. Physical Review C, 2008, 78, .	2.9	15
20	The early geological history of the Moon inferred from ancient lunar meteorite Miller Range 13317. Meteoritics and Planetary Science, 2019, 54, 1401-1430.	1.6	15
21	Negative correlation of iodineâ€129/iodineâ€127 and xenonâ€129/xenonâ€132: Product of closedâ€system evolution or evidence of a mixed component. Meteoritics and Planetary Science, 2001, 36, 1283-1286.	1.6	13
22	Hyperfine structure induced isotopic effects in krypton resonance ionization mass spectrometry. Optics Communications, 2009, 282, 3487-3492.	2.1	13
23	Measuring the elemental abundance and isotopic signature of solar wind xenon collected by the Genesis mission. Journal of Analytical Atomic Spectrometry, 2012, 27, 256-269.	3.0	13
24	⁸¹Krâ€Kr cosmic ray exposure ages of individual chondrules from Allegan. Meteoritics and Planetary Science, 2013, 48, 2430-2440.	1.6	13
25	Testing an integrated chronology: Iâ€Xe analysis of enstatite meteorites and a eucrite. Meteoritics and Planetary Science, 2008, 43, 883-897.	1.6	10
26	Collisional modification of the acapulcoite/lodranite parent body revealed by the iodineâ€xenon system in lodranites. Meteoritics and Planetary Science, 2009, 44, 1151-1159.	1.6	10
27	Xenon and iodine reveal multiple distinct exotic xenon components in Efremovka â€œnanodiamondsâ€. Geochimica Et Cosmochimica Acta, 2016, 177, 78-93.	3.9	9
28	The I-Xe chronometer and its constraints on the accretion and evolution of planetesimals. Geochemical Journal, 2017, 51, 69-80.	1.0	9
29	GEOCHEMISTRY: The Solar System's First Clocks. Science, 2002, 297, 1658-1659.	12.6	8
30	Xenon Isotopes Identify Large-scale Nucleosynthetic Heterogeneities across the Solar System. Astrophysical Journal, 2020, 889, 68.	4.5	8
31	Martian xenon components in Shergotty mineral separates: Locations, sources, and trapping mechanisms. Meteoritics and Planetary Science, 2004, 39, 1967-1981.	1.6	7
32	Iâ€Xe measurements of CAIs and chondrules from the CV3 chondrites Mokoia and Vigarano. Meteoritics and Planetary Science, 2004, 39, 1387-1403.	1.6	7
33	Controlling isotopic effects in the resonance ionisation mass spectrometry of krypton. Applied Physics B: Lasers and Optics, 2010, 99, 543-551.	2.2	7
34	Terrestrial and Martian weathering signatures of xenon components in shergottite mineral separates. Meteoritics and Planetary Science, 2010, 45, 1359-1379.	1.6	6
35	A laser ablation resonance ionisation mass spectrometer (LA-RIMS) for the detection of isotope ratios of uranium at ultra-trace concentrations from solid particles and solutions. Journal of Analytical Atomic Spectrometry, 2019, 34, 1630-1638.	3.0	6
36	Resonance ionisation mass spectrometry of krypton and its applications in planetary science. Hyperfine Interactions, 2014, 227, 259-270.	0.5	5

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37	Noble gases and halogens in Graves Nunataks 06129: The complex thermal history of a felsic asteroid crust. Geochimica Et Cosmochimica Acta, 2015, 159, 177-189.	3.9	5
38	Upper limit concentrations of trapped xenon in individual interplanetary dust particles from the stratosphere. Meteoritics and Planetary Science, 2009, 44, 249-259.	1.6	4
39	Old formation ages of igneous clasts on the L chondrite parent body reflect an early generation of planetesimals or chondrule formation. Earth and Planetary Science Letters, 2018, 481, 372-386.	4.4	4
40	Dissipation of the Solar Systemâ€™s debris disk recorded in primitive meteorites. Nature Astronomy, 2019, 3, 326-331.	10.1	4
41	Xenon systematics of individual lunar zircons, a new window on the history of the lunar surface. Geochimica Et Cosmochimica Acta, 2020, 286, 103-118.	3.9	4
42	Complex burial histories of Apollo 12 basaltic soil grains derived from cosmogenic noble gases: Implications for local regolith evolution and future inÂsitu investigations. Meteoritics and Planetary Science, 2022, 57, 603-634.	1.6	4
43	Atmospheric pressure chemical ionisation (APCI) and photoionisation (APPI) mass spectrometry for detection of unsaturated fatty acids: potential for rapid detection of adulteration of vegetable oils. Analytical Methods, 2019, 11, 3819-3828.	2.7	3
44	Progress in developing Te-Xe dating of ore minerals. , 2005, , 1427-1430.		2
45	Continuous wave laser probe I-Xe analysis using the RELAX mass spectrometer. AIP Conference Proceedings, 1995, , .	0.4	1
46	A study of xenon isotopes in a martian meteorite using the RELAX ultrasensitive mass spectrometer. , 1997, , .		1
47	New ideas on the early solar system. Astronomy and Geophysics, 2008, 49, 1.28-1.30.	0.2	0