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	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
2	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
3	Xenon Isotopes Identify Large-scale Nucleosynthetic Heterogeneities across the Solar System. Astrophysical Journal, 2020, 889, 68.	4.5	8
4	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
5	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
6	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
7	Dissipation of the Solar Systemâ€™s debris disk recorded in primitive meteorites. Nature Astronomy, 2019, 3, 326-331.	10.1	4
8	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
9	The I-Xe chronometer and its constraints on the accretion and evolution of planetesimals. Geochemical Journal, 2017, 51, 69-80.	1.0	9
10	Cosmochemical and spectroscopic properties of Northwest Africa 7325â€”A consortium study. Meteoritics and Planetary Science, 2016, 51, 3-30.	1.6	32
11	Xenon and iodine reveal multiple distinct exotic xenon components in Efremovka â€œnanodiamondsâ€. Geochimica Et Cosmochimica Acta, 2016, 177, 78-93.	3.9	9
12	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
13	Resonance ionisation mass spectrometry of krypton and its applications in planetary science. Hyperfine Interactions, 2014, 227, 259-270.	0.5	5
14	⁸¹Krâ€Kr cosmic ray exposure ages of individual chondrules from Allegan. Meteoritics and Planetary Science, 2013, 48, 2430-2440.	1.6	13
15	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
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	Controlling isotopic effects in the resonance ionisation mass spectrometry of krypton. Applied Physics B: Lasers and Optics, 2010, 99, 543-551.	2.2	7
18	Terrestrial and Martian weathering signatures of xenon components in shergottite mineral separates. Meteoritics and Planetary Science, 2010, 45, 1359-1379.	1.6	6

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19	Hyperfine structure induced isotopic effects in krypton resonance ionization mass spectrometry. Optics Communications, 2009, 282, 3487-3492.	2.1	13
20	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
21	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
22	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
23	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
24	New ideas on the early solar system. Astronomy and Geophysics, 2008, 49, 1.28-1.30.	0.2	0
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	Characteristics and applications of RELAX, an ultrasensitive resonance ionization mass spectrometer for xenon. Journal of Analytical Atomic Spectrometry, 2008, 23, 938.	3.0	45
27	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
28	Constraints on Nucleosynthesis from Xenon Isotopes in Presolar Material. Astrophysical Journal, 2007, 657, 600-608.	4.5	16
29	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
30	Comet 81P/Wild 2 Under a Microscope. Science, 2006, 314, 1711-1716.	12.6	848
31	The Iâ€Xe chronometer and the early solar system. Meteoritics and Planetary Science, 2006, 41, 19-31.	1.6	54
32	Isotopic Compositions of Cometary Matter Returned by Stardust. Science, 2006, 314, 1724-1728.	12.6	343
33	Progress in developing Te-Xe dating of ore minerals. , 2005, , 1427-1430.		2
34	Extinct 244Pu in Ancient Zircons. Science, 2004, 306, 89-91.	12.6	57
35	Martian xenon components in Shergotty mineral separates: Locations, sources, and trapping mechanisms. Meteoritics and Planetary Science, 2004, 39, 1967-1981.	1.6	7
36	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

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37	GEOCHEMISTRY: The Solar System's First Clocks. Science, 2002, 297, 1658-1659.	12.6	8
38	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
39	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
40	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
41	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
42	A study of xenon isotopes in a martian meteorite using the RELAX ultrasensitive mass spectrometer. , 1997, , .		1
43	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
44	Iodineâ€xenon studies of BjurbÃ¶le and Parnallee using RELAX. Meteoritics, 1995, 30, 405-411.	1.4	18
45	Continuous wave laser probe I-Xe analysis using the RELAX mass spectrometer. AIP Conference Proceedings, 1995, , .	0.4	1
46	RELAX: An ultrasensitive, resonance ionization mass spectrometer for xenon. Review of Scientific Instruments, 1994, 65, 617-625.	1.3	71
47	A resonance ionization mass spectrometer for xenon. Measurement Science and Technology, 1991, 2, 589-595.	2.6	24