Tim Elliott

List of Publications by Year
in descending order

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90 papers	8,881 citations	43973 48 h-index	53109 85 g-index
91 all docs	91 docs citations	91 times ranked	5819 citing authors

#	Article	IF	Citations
1	Molybdenum isotope systematics of lavas from the East Pacific Rise: Constraints on the source of enriched mid-ocean ridge basalt. Earth and Planetary Science Letters, 2022, 578, 117283.	1.8	21
2	Stable tungsten isotope systematics on the Earthâ€™s surface. Geochimica Et Cosmochimica Acta, 2022, 322, 227-243.	1.6	7
3	Radiogenic chromium isotope evidence for the earliest planetary volcanism and crust formation in the Solar system. Monthly Notices of the Royal Astronomical Society: Letters, 2022, 515, L39-L44.	1.2	7
4	In situ Rbâ€“Sr dating by collision cell, multicollection inductively-coupled plasma mass-spectrometry with pre-cell mass-filter, (CC-MC-ICPMS/MS). Journal of Analytical Atomic Spectrometry, 2021, 36, 917-931.	1.6	32
5	Project Vienna: A Novel Precell Mass Filter for Collision/Reaction Cell MC-ICPMS/MS. Analytical Chemistry, 2021, 93, 10519-10527.	3.2	17
6	The Ca isotope composition of mare basalts as a probe into the heterogeneous lunar mantle. Earth and Planetary Science Letters, 2021, 570, 117079.	1.8	11
7	The non-chondritic Ni isotope composition of Earthâ€™s mantle. Geochimica Et Cosmochimica Acta, 2020, 268, 405-421.	1.6	32
8	Molybdenum isotope ratios in Izu arc basalts: The control of subduction zone fluids on compositional variations in arc volcanic systems. Geochimica Et Cosmochimica Acta, 2020, 288, 68-82.	1.6	42
9	Sr isotopes in arcs revisited: tracking slab dehydration using Î´88/86Sr and 87Sr/86Sr systematics of arc lavas. Geochimica Et Cosmochimica Acta, 2020, 288, 101-119.	1.6	21
10	Primordial formation of major silicates in a protoplanetary disc with homogeneous ²⁶ Al/ ²⁷ Al. Science Advances, 2020, 6, eaay9626.	4.7	21
11	Uranium isotope fractionation during slab dehydration beneath the Izu arc. Earth and Planetary Science Letters, 2019, 522, 244-254.	1.8	19
12	Bulk chondrite variability in mass independent magnesium isotope compositions â€“ Implications for initial solar system 26Al/27Al and the timing of terrestrial accretion. Earth and Planetary Science Letters, 2019, 522, 166-175.	1.8	17
13	Molybdenum systematics of subducted crust record reactive fluid flow from underlying slab serpentine dehydration. Nature Communications, 2019, 10, 4773.	5.8	63
14	Molybdenum isotope fractionation between Mo4+ and Mo6+ in silicate liquid and metallic Mo. Chemical Geology, 2019, 504, 177-189.	1.4	9
15	Chronology of formation of early solar system solids from bulk Mg isotope analyses of CV3 chondrules. Geochimica Et Cosmochimica Acta, 2018, 227, 19-37.	1.6	7
16	Collisional stripping of planetary crusts. Earth and Planetary Science Letters, 2018, 484, 276-286.	1.8	56
17	Carbon fluxes from subducted carbonates revealed by uranium excess at Mount Vesuvius, Italy. Geology, 2018, 46, 259-262.	2.0	27
18	Origin of negative cerium anomalies in subduction-related volcanic samples: Constraints from Ce and Nd isotopes. Chemical Geology, 2018, 500, 46-63.	1.4	34

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19	The Isotope Geochemistry of Ni. Reviews in Mineralogy and Geochemistry, 2017, 82, 511-542.	2.2	35
20	An experimental study of the behaviour of cerium/molybdenum ratios during subduction: Implications for tracing the slab component in the Lesser Antilles and Mariana Arc. Geochimica Et Cosmochimica Acta, 2017, 212, 133-155.	1.6	32
21	The boron and lithium isotopic composition of mid-ocean ridge basalts and the mantle. Geochimica Et Cosmochimica Acta, 2017, 207, 102-138.	1.6	195
22	Molybdenum isotope variations in magmatic rocks. Chemical Geology, 2017, 449, 253-268.	1.4	110
23	Double-spike inversion for three-isotope systems. Chemical Geology, 2017, 451, 78-89.	1.4	29
24	Magnesium isotope evidence that accretional vapour loss shapes planetary compositions. Nature, 2017, 549, 511-515.	13.7	129
25	12 The Isotope Geochemistry of Ni. , 2017, , 511-542.		1
26	Global-scale modelling of melting and isotopic evolution of Earth's mantle: melting modules for TERRA. Geoscientific Model Development, 2016, 9, 1399-1411.	1.3	6
27	Thorium isotope evidence for melting of the mafic oceanic crust beneath the Izu arc. Geochimica Et Cosmochimica Acta, 2016, 186, 49-70.	1.6	24
28	Tracing subducted black shales in the Lesser Antilles arc using molybdenum isotope ratios. Geology, 2016, 44, 987-990.	2.0	67
29	High-Precision Mass-Dependent Molybdenum Isotope Variations in Magmatic Rocks Determined by Double-Spike MC-ICP-MS. Geostandards and Geoanalytical Research, 2016, , n/a-n/a.	1.7	9
30	High-Precision Mass-Dependent Molybdenum Isotope Variations in Magmatic Rocks Determined by Double-Spike MC-ICP-MS. Geostandards and Geoanalytical Research, 2015, , n/a-n/a.	1.7	9
31	The influence of melt infiltration on the Li and Mg isotopic composition of the Horoman Peridotite Massif. Geochimica Et Cosmochimica Acta, 2015, 164, 318-332.	1.6	75
32	Selenium isotope evidence for progressive oxidation of the Neoproterozoic biosphere. Nature Communications, 2015, 6, 10157.	5.8	72
33	COMPOSITIONAL EVOLUTION DURING ROCKY PROTOPLANET ACCRETION. Astrophysical Journal, 2015, 813, 72.	1.6	77
34	The terrestrial uranium isotope cycle. Nature, 2015, 517, 356-359.	13.7	142
35	A collisional origin to Earthâ€™s non-chondritic composition?. Icarus, 2015, 247, 291-300.	1.1	72
36	Geodynamic controls on the contamination of Cenozoic arc magmas in the southern Central Andes: Insights from the O and Hf isotopic composition of zircon. Geochimica Et Cosmochimica Acta, 2015, 164, 386-402.	1.6	64

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37	Molybdenum mobility and isotopic fractionation during subduction at the Mariana arc. Earth and Planetary Science Letters, 2015, 432, 176-186.	1.8	116
38	Temporal variations in the influence of the subducting slab on Central Andean arc magmas: Evidence from boron isotope systematics. Earth and Planetary Science Letters, 2014, 408, 390-401.	1.8	35
39	Analysis of mass dependent and mass independent selenium isotope variability in black shales. Journal of Analytical Atomic Spectrometry, 2014, 29, 1648-1659.	1.6	23
40	Continental weathering following a Cryogenian glaciation: Evidence from calcium and magnesium isotopes. Earth and Planetary Science Letters, 2014, 396, 66-77.	1.8	84
41	Speed metal. Science, 2014, 344, 1086-1087.	6.0	0
42	Deep water formation in the North Pacific and deglacial CO₂rise. Paleoceanography, 2014, 29, 645-667.	3.0	99
43	Melting versus contamination effects on 238Uâ€“230Thâ€“226Ra and 235Uâ€“231Pa disequilibria in lavas from SÃ£o Miguel, Azores. Chemical Geology, 2014, 381, 94-109.	1.4	20
44	High pressure phase relations of subducted volcaniclastic sediments from the west pacific and their implications for the geochemistry of Mariana arc magmas. Chemical Geology, 2013, 342, 94-109.	1.4	33
45	Shadows cast on Moon's origin. Nature, 2013, 504, 90-91.	13.7	4
46	Interlaboratory comparison of boron isotope analyses of boric acid, seawater and marine CaCO3 by MC-ICPMS and NTIMS. Chemical Geology, 2013, 358, 1-14.	1.4	112
47	Calibration of the boron isotope proxy in the planktonic foraminifera Globigerinoides ruber for use in palaeo-CO2 reconstruction. Earth and Planetary Science Letters, 2013, 364, 111-122.	1.8	149
48	Lithium and its isotopes as tracers of subduction zone fluids and metasomatic processes: Evidence from the Catalina Schist, California, USA. Geochimica Et Cosmochimica Acta, 2012, 77, 530-545.	1.6	84
49	Galvanized lunacy. Nature, 2012, 490, 346-347.	13.7	0
50	NEUTRON-POOR NICKEL ISOTOPE ANOMALIES IN METEORITES. Astrophysical Journal, 2012, 758, 59.	1.6	83
51	The tungsten isotopic composition of the Earthâ€™s mantle before the terminal bombardment. Nature, 2011, 477, 195-198.	13.7	256
52	Variations of Li and Mg isotope ratios in bulk chondrites and mantle xenoliths. Geochimica Et Cosmochimica Acta, 2011, 75, 5247-5268.	1.6	252
53	Confirmation of mass-independent Ni isotopic variability in iron meteorites. Geochimica Et Cosmochimica Acta, 2011, 75, 7906-7925.	1.6	96
54	Boron isotopes and B/Ca in benthic foraminifera: Proxies for the deep ocean carbonate system. Earth and Planetary Science Letters, 2011, 302, 403-413.	1.8	252

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55	Hard core constraints on accretion. Nature Geoscience, 2010, 3, 382-383.	5.4	5
56	The accuracy of Î´11B measurements of foraminifers. Chemical Geology, 2010, 274, 187-195.	1.4	25
57	Fractionation of lithium isotopes in magmatic systems as a natural consequence of cooling. Earth and Planetary Science Letters, 2009, 278, 286-296.	1.8	55
58	Origin of Nucleosynthetic Isotope Heterogeneity in the Solar Protoplanetary Disk. Science, 2009, 324, 374-376.	6.0	454
59	Restoration of the noble gases. Nature, 2009, 459, 520-521.	13.7	0
60	Assessment of USGS BCRâ€2 as a Reference Material for Silicate Rock Uâ€Pa Disequilibrium Measurements. Geostandards and Geoanalytical Research, 2008, 32, 55-63.	2.0	22
61	An Interâ€Laboratory Assessment of the Thorium Isotopic Composition of Synthetic and Rock Reference Materials. Geostandards and Geoanalytical Research, 2008, 32, 65-91.	2.0	130
62	The evolution of He Isotopes in the convecting mantle and the preservation of high 3He/4He ratios. Earth and Planetary Science Letters, 2008, 269, 175-185.	1.8	71
63	Nickel isotope heterogeneity in the early Solar System. Earth and Planetary Science Letters, 2008, 272, 330-338.	1.8	174
64	Measurement of Femtogram Quantities of Protactinium in Silicate Rock Samples by Multicollector Inductively Coupled Plasma Mass Spectrometry. Analytical Chemistry, 2008, 80, 344-344.	3.2	10
65	The lithium isotopic composition of orogenic eclogites and deep subducted slabs. Earth and Planetary Science Letters, 2007, 262, 563-580.	1.8	192
66	The origin of enriched mantle beneath SÃ£o Miguel, Azores. Geochimica Et Cosmochimica Acta, 2007, 71, 219-240.	1.6	104
67	A core top assessment of proxies for the ocean carbonate system in surfaceâ€dwelling foraminifers. Paleoceanography, 2007, 22, .	3.0	93
68	Procedures for accurate U and Th isotope measurements by high precision MC-ICPMS. International Journal of Mass Spectrometry, 2007, 264, 97-109.	0.7	161
69	Silicon-enhanced core. Nature, 2007, 447, 1060-1061.	13.7	0
70	The amount of recycled crust in sources of mantle-derived melts. Science, 2007, 316, 412-7.	6.0	822
71	Hfâ€“W evidence for rapid differentiation of iron meteorite parent bodies. Earth and Planetary Science Letters, 2006, 241, 530-542.	1.8	161
72	Accurate and precise isotopic measurement of sub-nanogram sized samples of foraminiferal hosted boron by total evaporation NTIMS. Chemical Geology, 2006, 230, 161-174.	1.4	64

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73	Lithium isotope evidence for subduction-enriched mantle in the source of mid-ocean-ridge basalts. Nature, 2006, 443, 565-568.	13.7	192
74	Characterisation of secondary electron multiplier nonlinearity using MC-ICPMS. International Journal of Mass Spectrometry, 2005, 244, 97-108.	0.7	49
75	Unleaded high-performance. Nature, 2005, 437, 485-486.	13.7	2
76	Lithium Isotope Composition of Basalt Glass Reference Material. Analytical Chemistry, 2005, 77, 5251-5257.	3.2	82
77	Tungsten isotope evidence that mantle plumes contain no contribution from the Earth's core. Nature, 2004, 427, 234-237.	13.7	121
78	Precise/ Small Sample Size Determinations of Lithium Isotopic Compositions of Geological Reference Materials and Modern Seawater by MC-ICP-MS. Geostandards and Geoanalytical Research, 2004, 28, 161-172.	2.0	161
79	Lithium inputs to subduction zones. Chemical Geology, 2004, 212, 59-79.	1.4	152
80	The terrestrial Li isotope cycle: light-weight constraints on mantle convection. Earth and Planetary Science Letters, 2004, 220, 231-245.	1.8	158
81	Tracers of the slab. Geophysical Monograph Series, 2003, , 23-45.	0.1	181
82	GEOPHYSICS: Caught Offside. Science, 2002, 295, 55-57.	6.0	4
83	Crystallization history of rhyolites at Long Valley, California, inferred from combined U-series and Rb-Sr isotope systematics. Geochimica Et Cosmochimica Acta, 2002, 66, 1821-1837.	1.6	47
84	Melt evolution beneath thick lithosphere: a magmatic inclusion study of La Palma, Canary Islands. Chemical Geology, 2002, 183, 169-193.	1.4	26
85	Lead isotope composition of tree rings as bio-geochemical tracers of heavy metal pollution: a reconnaissance study from Firenze, Italy. Applied Geochemistry, 2000, 15, 891-900.	1.4	66
86	Exploring the kappa conundrum: the role of recycling in the lead isotope evolution of the mantle. Earth and Planetary Science Letters, 1999, 169, 129-145.	1.8	107
87	Element transport from slab to volcanic front at the Mariana arc. Journal of Geophysical Research, 1997, 102, 14991-15019.	3.3	1,204
88	Fractionation of U and Th during mantle melting: a reprise. Chemical Geology, 1997, 139, 165-183.	1.4	85
89	Os isotope systematics of La Palma, Canary Islands: Evidence for recycled crust in the mantle source of HIMU ocean islands. Earth and Planetary Science Letters, 1995, 133, 397-410.	1.8	121
90	Consequences of melt transport for uranium series disequilibrium in young lavas. Earth and Planetary Science Letters, 1993, 118, 1-20.	1.8	290