

Edward D Young

List of Publications by Year in descending order

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143
papers

9,747
citations

36271

51
h-index

40954

93
g-index

144
all docs

144
docs citations

144
times ranked

6569
citing authors

#	ARTICLE	IF	CITATIONS
1	Comet 81P/Wild 2 Under a Microscope. <i>Science</i> , 2006, 314, 1711-1716.	6.0	848
2	Kinetic and equilibrium mass-dependent isotope fractionation laws in nature and their geochemical and cosmochemical significance. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 1095-1104.	1.6	774
3	CO self-shielding as the origin of oxygen isotope anomalies in the early solar nebula. <i>Nature</i> , 2005, 435, 317-320.	13.7	349
4	Isotopic Compositions of Cometary Matter Returned by Stardust. <i>Science</i> , 2006, 314, 1724-1728.	6.0	343
5	Accretion and differentiation of the terrestrial planets with implications for the compositions of early-formed Solar System bodies and accretion of water. <i>Icarus</i> , 2015, 248, 89-108.	1.1	328
6	The Isotope Geochemistry and Cosmochemistry of Magnesium. <i>Reviews in Mineralogy and Geochemistry</i> , 2004, 55, 197-230.	2.2	298
7	Oxygen Reservoirs in the Early Solar Nebula Inferred from an Allende CAI. , 1998, 282, 452-455.		211
8	Extrasolar Cosmochemistry. <i>Annual Review of Earth and Planetary Sciences</i> , 2014, 42, 45-67.	4.6	210
9	Oxygen isotopic evidence for vigorous mixing during the Moon-forming giant impact. <i>Science</i> , 2016, 351, 493-496.	6.0	203
10	Radar-Enabled Recovery of the Sutterâ€™s Mill Meteorite, a Carbonaceous Chondrite Regolith Breccia. <i>Science</i> , 2012, 338, 1583-1587.	6.0	191
11	Fluid Flow in Chondritic Parent Bodies: Deciphering the Compositions of Planetesimals. <i>Science</i> , 1999, 286, 1331-1335.	6.0	178
12	High-temperature equilibrium isotope fractionation of non-traditional stable isotopes: Experiments, theory, and applications. <i>Chemical Geology</i> , 2015, 395, 176-195.	1.4	163
13	Constraints on Hadean zircon protoliths from oxygen isotopes, Ti-thermometry, and rare earth elements. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, n/a-n/a.	1.0	160
14	Early formation of the Moon 4.51 billion years ago. <i>Science Advances</i> , 2017, 3, e1602365.	4.7	156
15	The Formation of Chondrules at High Gas Pressures in the Solar Nebula. , 2000, 290, 1751-1753.		154
16	Supra-Canonical ²⁶ Al/ ²⁷ Al and the Residence Time of CAIs in the Solar Protoplanetary Disk. <i>Science</i> , 2005, 308, 223-227.	6.0	147
17	Equilibrium high-temperature Fe isotope fractionation between fayalite and magnetite: An experimental calibration. <i>Earth and Planetary Science Letters</i> , 2008, 268, 330-338.	1.8	145
18	Spinelâ€™olivine magnesium isotope thermometry in the mantle and implications for the Mg isotopic composition of Earth. <i>Earth and Planetary Science Letters</i> , 2009, 288, 524-533.	1.8	142

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19	Effects of Improved ¹⁷ O Correction on Interlaboratory Agreement in Clumped Isotope Calibrations, Estimates of Mineral-specific Offsets, and Temperature Dependence of Acid Digestion Fractionation. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 3495-3519.	1.0	134
20	Isotopic homogeneity of iron in the early solar nebula. <i>Nature</i> , 2001, 412, 311-313.	13.7	129
21	The relative abundances of resolved ¹² CH ₂ D ₂ and ¹³ CH ₃ D and mechanisms controlling isotopic bond ordering in abiotic and biotic methane gases. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 203, 235-264.	1.6	125
22	Experimentally determined Si isotope fractionation between silicate and Fe metal and implications for Earth's core formation. <i>Earth and Planetary Science Letters</i> , 2009, 288, 228-234.	1.8	115
23	The Chemical Composition of an Extrasolar Kuiper-Belt-Object*. <i>Astrophysical Journal Letters</i> , 2017, 836, L7.	3.0	112
24	The SPICE carbon isotope excursion in Siberia: a combined study of the upper Middle Cambrian-lowermost Ordovician Kulyumbe River section, northwestern Siberian Platform. <i>Geological Magazine</i> , 2008, 145, 609-622.	0.9	98
25	Samples returned from the asteroid Ryugu are similar to Ivuna-type carbonaceous meteorites. <i>Science</i> , 2023, 379, .	6.0	97
26	Metal-silicate silicon isotope fractionation in enstatite meteorites and constraints on Earth's core formation. <i>Earth and Planetary Science Letters</i> , 2010, 295, 487-496.	1.8	90
27	Oxygen fugacities of extrasolar rocks: Evidence for an Earth-like geochemistry of exoplanets. <i>Science</i> , 2019, 366, 356-359.	6.0	87
28	Mg isotope heterogeneity in the Allende meteorite measured by UV laser ablation-MC-ICPMS and comparisons with O isotopes. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 683-698.	1.6	85
29	Near-equilibrium isotope fractionation during planetesimal evaporation. <i>Icarus</i> , 2019, 323, 1-15.	1.1	84
30	Conditions for pore water convection within carbonaceous chondrite parent bodies - implications for planetesimal size and heat production. <i>Earth and Planetary Science Letters</i> , 2003, 213, 249-259.	1.8	83
31	High-temperature Si isotope fractionation between iron metal and silicate. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 7688-7697.	1.6	82
32	In situ oxygen isotope analysis with an excimer laser using F ₂ and BrF ₅ reagents and O ₂ gas as analyte. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 4229-4234.	1.6	80
33	The hydrology of carbonaceous chondrite parent bodies and the evolution of planet progenitors. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2001, 359, 2095-2110.	1.6	80
34	Early Archean crustal evolution of the Jack Hills Zircon source terrane inferred from Lu-Hf, ²⁰⁷ Pb/ ²⁰⁶ Pb, and ¹⁸ O systematics of Jack Hills zircons. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 4816-4829.	1.6	76
35	SIMS Pb-Pb and U-Pb age determination of eucrite zircons at $\sim 1/4$ m scale and the first 50Ma of the thermal history of Vesta. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 110, 152-175.	1.6	74
36	Mid-crustal Cretaceous roots of Cordilleran metamorphic core complexes. <i>Geology</i> , 1988, 16, 366.	2.0	73

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37	Carbon isotope stratigraphy of the Precambrian–Cambrian Sukharikha River section, northwestern Siberian platform. <i>Geological Magazine</i> , 2007, 144, 609-618.	0.9	71
38	A large-radius high-mass-resolution multiple-collector isotope ratio mass spectrometer for analysis of rare isotopologues of O ₂ , N ₂ , CH ₄ and other gases. <i>International Journal of Mass Spectrometry</i> , 2016, 401, 1-10.	0.7	68
39	A short timescale for changing oxygen fugacity in the solar nebula revealed by high-resolution ²⁶ Al– ²⁶ Mg dating of CAI rims. <i>Earth and Planetary Science Letters</i> , 2005, 238, 272-283.	1.8	66
40	Effects of changing solution chemistry on Fe ³⁺ /Fe ²⁺ isotope fractionation in aqueous Fe–Cl solutions. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 6669-6689.	1.6	66
41	²⁶ Al IN THE EARLY SOLAR SYSTEM: NOT SO UNUSUAL AFTER ALL. <i>Astrophysical Journal Letters</i> , 2013, 775, L41.	3.0	65
42	Methane sources and sinks in continental sedimentary systems: New insights from paired clumped isotopologues ¹³ CH ₃ D and ¹² CH ₂ D ₂ . <i>Geochimica Et Cosmochimica Acta</i> , 2019, 245, 327-351.	1.6	65
43	Non-Rayleigh oxygen isotope fractionation by mineral evaporation: theory and experiments in the system SiO ₂ . <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 3109-3116.	1.6	64
44	Astrophysics of CAI formation as revealed by silicon isotope LA-MC-ICPMS of an igneous CAI. <i>Earth and Planetary Science Letters</i> , 2007, 257, 497-510.	1.8	62
45	On the ¹⁷ O budget of atmospheric O ₂ . <i>Geochimica Et Cosmochimica Acta</i> , 2014, 135, 102-125.	1.6	62
46	The origin of correlated variations in in-situ and elemental concentrations in metamorphic garnet from southeastern Vermont, USA. <i>Geochimica Et Cosmochimica Acta</i> , 1993, 57, 2585-2597.	1.6	60
47	HIGH-PRECISION C ¹⁷ O, C ¹⁸ O, AND C ¹⁶ O MEASUREMENTS IN YOUNG STELLAR OBJECTS: ANALOGUES FOR CO SELF-SHIELDING IN THE EARLY SOLAR SYSTEM. <i>Astrophysical Journal</i> , 2009, 701, 163-175.	1.6	60
48	Eoarchean crustal evolution of the Jack Hills zircon source and loss of Hadean crust. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 146, 27-42.	1.6	59
49	Inheritance of solar short- and long-lived radionuclides from molecular clouds and the unexceptional nature of the solar system. <i>Earth and Planetary Science Letters</i> , 2014, 392, 16-27.	1.8	59
50	Biological signatures in clumped isotopes of O ₂ . <i>Science</i> , 2015, 348, 431-434.	6.0	58
51	Crystal chemical constraints on inter-mineral Fe isotope fractionation and implications for Fe isotope disequilibrium in San Carlos mantle xenoliths. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 154, 168-185.	1.6	57
52	GC/Multiple Collector-ICPMS Method for Chlorine Stable Isotope Analysis of Chlorinated Aliphatic Hydrocarbons. <i>Analytical Chemistry</i> , 2006, 78, 4663-4667.	3.2	55
53	Measurements of ¹⁸ O ¹⁸ O and ¹⁷ O ¹⁸ O in the atmosphere and the role of isotope–exchange reactions. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	55
54	Impact of diatom–diazotroph associations on carbon export in the Amazon River plume. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	53

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55	Lead isotopes by LA-MC-ICPMS: Tracking the emergence of mantle signatures in an evolving silicic magma system. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 2014-2035.	1.6	52
56	Experimental studies of equilibrium iron isotope fractionation in ferric aquo-“chloro complexes. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 2366-2381.	1.6	51
57	The isotopic effects of electron transfer: An explanation for Fe isotope fractionation in nature. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 2971-2979.	1.6	50
58	Calcium and titanium isotope fractionation in refractory inclusions: Tracers of condensation and inheritance in the early solar protoplanetary disk. <i>Earth and Planetary Science Letters</i> , 2017, 472, 277-288.	1.8	50
59	Hydrothermal ¹⁵ N/ ¹⁵ N abundances constrain the origins of mantle nitrogen. <i>Nature</i> , 2020, 580, 367-371.	13.7	50
60	Experimental determination of equilibrium magnesium isotope fractionation between spinel, forsterite, and magnesite from 600 to 800 Å°C. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 118, 18-32.	1.6	49
61	Compositions of Planetary Debris around Dusty White Dwarfs. <i>Astronomical Journal</i> , 2019, 158, 242.	1.9	48
62	Planetesimal sulfate and aqueous alteration in CM and CI carbonaceous chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 4167-4172.	1.6	46
63	Experimental determination of equilibrium nickel isotope fractionation between metal and silicate from 500Å°C to 950Å°C. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 86, 276-295.	1.6	45
64	UV laser ablation and irm-GCMS microanalysis of ¹⁸ O/ ¹⁶ O and ¹⁷ O/ ¹⁶ O with application to a calcium-aluminium-rich inclusion from the Allende meteorite. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 3161-3168.	1.6	43
65	Ceres: Astrobiological Target and Possible Ocean World. <i>Astrobiology</i> , 2020, 20, 269-291.	1.5	43
66	Assessing the implications of K isotope cosmochemistry for evaporation in the preplanetary solar nebula. <i>Earth and Planetary Science Letters</i> , 2000, 183, 321-333.	1.8	42
67	Magnesium isotopic constraints on the origin of CBb chondrites. <i>Earth and Planetary Science Letters</i> , 2007, 256, 521-533.	1.8	40
68	Early Solar System hydrothermal activity in chondritic asteroids on 1-“10-year timescales. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18306-18311.	3.3	40
69	EVIDENCE FOR AN ANHYDROUS CARBONACEOUS EXTRASOLAR MINOR PLANET. <i>Astrophysical Journal</i> , 2015, 799, 109.	1.6	39
70	Quantification of oxygen isotope SIMS matrix effects in olivine samples: Correlation with sputter rate. <i>Chemical Geology</i> , 2017, 458, 14-21.	1.4	39
71	Pre-Tommotian age of the lower Pestrosvet Formation in the Selinde section on the Siberian platform: carbon isotopic evidence. <i>Geological Magazine</i> , 2005, 142, 319-325.	0.9	37
72	HETEROGENEITY IN ¹² CO/ ¹³ CO ABUNDANCE RATIOS TOWARD SOLAR-TYPE YOUNG STELLAR OBJECTS. <i>Astrophysical Journal</i> , 2015, 813, 120.	1.6	37

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73	Time-dependent oxygen isotopic effects of CO self shielding across the solar protoplanetary disk. <i>Earth and Planetary Science Letters</i> , 2007, 262, 468-483.	1.8	35
74	High-resolution $\delta^{18}\text{O}$ analysis of tooth enamel phosphate by isotope ratio monitoring gas chromatography mass spectrometry and ultraviolet laser fluorination. <i>Chemical Geology</i> , 1999, 153, 241-248.	1.4	34
75	Biogeochemical data from well preserved 200 ka collagen and skeletal remains. <i>Earth and Planetary Science Letters</i> , 2001, 193, 143-149.	1.8	34
76	Short time interval for condensation of high-temperature silicates in the solar accretion disk. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1298-1303.	3.3	33
77	Water and the Interior Structure of Terrestrial Planets and Icy Bodies. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	33
78	Isotope-ratio-monitoring of O ₂ for microanalysis of ¹⁸ O/ ¹⁶ O and ¹⁷ O/ ¹⁶ O in geological materials. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 3087-3094.	1.6	32
79	6. The Isotope Geochemistry and Cosmochemistry of Magnesium. , 2004, , 197-230.		32
80	The first samples from Almahata Sitta showing contacts between ureilitic and chondritic lithologies: Implications for the structure and composition of asteroid 2008 TC ₃ . <i>Meteoritics and Planetary Science</i> , 2019, 54, 2769-2813.	0.7	32
81	A PILOT SEARCH FOR EVIDENCE OF EXTRASOLAR EARTH-ANALOG PLATE TECTONICS. <i>Astrophysical Journal Letters</i> , 2014, 791, L29.	3.0	31
82	Extreme enrichment in atmospheric ¹⁵ N. <i>Science Advances</i> , 2017, 3, eaao6741.	4.7	31
83	High-resolution, long-term isotopic and isotopologue variation identifies the sources and sinks of methane in a deep subsurface carbon cycle. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 294, 315-334.	1.6	31
84	Petrology of Biotite-Cordierite-Garnet Gneiss of the McCullough Range, Nevada I. Evidence for Proterozoic Low-Pressure Fluid-Absent Granulite Grade Metamorphism in the Southern Cordillera. <i>Journal of Petrology</i> , 1989, 30, 39-60.	1.1	30
85	Argon, oxygen, and boron isotopic evidence documenting ⁴⁰ ArE accumulation in phengite during water-rich high-pressure subduction metasomatism of continental crust. <i>Earth and Planetary Science Letters</i> , 2016, 446, 56-67.	1.8	30
86	Low $\delta^{13}\text{C}$ values in microbialgenetic methane result from co. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 285, 225-236.	1.6	29
87	ASTRONOMICAL OXYGEN ISOTOPIC EVIDENCE FOR SUPERNOVA ENRICHMENT OF THE SOLAR SYSTEM BIRTH ENVIRONMENT BY PROPAGATING STAR FORMATION. <i>Astrophysical Journal</i> , 2011, 729, 43.	1.6	26
88	Reclassification of Villalbeto de la Peña Occurrence of a winonaite-related fragment in a hydrothermally metamorphosed polymict chondritic breccia. <i>Meteoritics and Planetary Science</i> , 2013, 48, 628-640.	0.7	26
89	Discovery of Beryllium in White Dwarfs Polluted by Planetesimal Accretion. <i>Astrophysical Journal</i> , 2021, 914, 61.	1.6	25
90	BAYESIAN THEOREM AND EARLY SOLAR SHORT-LIVED RADIONUCLIDES: THE CASE FOR AN UNEXCEPTIONAL ORIGIN FOR THE SOLAR SYSTEM. <i>Astrophysical Journal</i> , 2016, 826, 129.	1.6	24

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91	Mass Dependence of Equilibrium Oxygen Isotope Fractionation in Carbonate, Nitrate, Oxide, Perchlorate, Phosphate, Silicate, and Sulfate Minerals. <i>Reviews in Mineralogy and Geochemistry</i> , 2021, 86, 137-178.	2.2	23
92	Implications of high-precision measurements of ^{13}C – ^{18}O bond ordering in CO_2 for thermometry in modern bivalved mollusc shells. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 142, 400-410.	1.6	22
93	On the $^{18}\text{O}/^{16}\text{O}$ record of reaction progress in open and closed metamorphic systems. <i>Earth and Planetary Science Letters</i> , 1993, 117, 147-167.	1.8	21
94	Rapid photochemical equilibration of isotope bond ordering in O_2 . <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 10552-10566.	1.2	21
95	Chemical Equilibrium between Cores, Mantles, and Atmospheres of Super-Earths and Sub-Neptunes and Implications for Their Compositions, Interiors, and Evolution. <i>Planetary Science Journal</i> , 2022, 3, 127.	1.5	21
96	A model for ^{12}C – ^{13}C and ^{12}C – ^{13}C – ^{14}C as complementary tracers for the budget of atmospheric CH_4 . <i>Global Biogeochemical Cycles</i> , 2017, 31, 1387-1407.	1.9	19
97	Geochemical, Biological, and Clumped Isotopologue Evidence for Substantial Microbial Methane Production Under Carbon Limitation in Serpentinites of the Samail Ophiolite, Oman. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006025.	1.3	19
98	Mass-independent Oxygen Isotope Variation in the Solar Nebula. <i>Reviews in Mineralogy and Geochemistry</i> , 2008, 68, 187-218.	2.2	18
99	Resetting, errorchrons and the meaning of canonical CAI initial $^{26}\text{Al}/^{27}\text{Al}$ values. <i>Earth and Planetary Science Letters</i> , 2011, 304, 468-482.	1.8	18
100	A Two-Dimensional Perspective on CH_4 Isotope Clumping. , 2019, , 388-414.		18
101	Icy Exomoons Evidenced by Spallogenic Nuclides in Polluted White Dwarfs. <i>Astrophysical Journal Letters</i> , 2021, 907, L35.	3.0	18
102	GEOCHEMISTRY: Strange Water in the Solar System. <i>Science</i> , 2007, 317, 211-212.	6.0	17
103	Geochemical evolution of Jurassic diorites from the Bristol Lake region, California, USA, and the role of assimilation. <i>Contributions To Mineralogy and Petrology</i> , 1992, 110, 68-86.	1.2	16
104	Silicon isotope systematics of acidic weathering of fresh basalts, Kilauea Volcano, Hawaii. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 169, 63-81.	1.6	16
105	Iron isotope electroplating: Diffusion-limited fractionation. <i>Chemical Geology</i> , 2009, 267, 131-138.	1.4	15
106	Effect of temperature and mass transport on transition metal isotope fractionation during electroplating. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 5187-5201.	1.6	15
107	Isotopic ordering in atmospheric O_2 as a tracer of ozone photochemistry and the tropical atmosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 12,541.	1.2	15
108	Valence state of titanium in the Warköföner rim of a Leoville CAI as a record of progressive oxidation in the early Solar Nebula. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 937-949.	1.6	14

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109	In Situ Quantification of Biological N ₂ Production Using Naturally Occurring ¹⁵ N ₂ . <i>Environmental Science & Technology</i> , 2019, 53, 5168-5175.	4.6	14
110	Iron isotope constraints on planetesimal core formation in the early solar system. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 246, 461-477.	1.6	14
111	Where Are the Extrasolar Mercuries?. <i>Astrophysical Journal</i> , 2020, 901, 10.	1.6	14
112	Evaporation from the Lunar Magma Ocean Was Not the Mechanism for Fractionation of the Moon's Moderately Volatile Elements. <i>Planetary Science Journal</i> , 2020, 1, 49.	1.5	14
113	Petrology of Biotite-Cordierite-Garnet Gneiss of the McCullough Range, Nevada II. P-T-aH ₂ O Path and Growth of Cordierite During Late Stages of Low-P Granulite-Grade Metamorphism. <i>Journal of Petrology</i> , 1989, 30, 61-78.	1.1	13
114	Relations among net-transfer reaction progress, 18O/13C depletion, and fluid infiltration in a clinohumite-bearing marble. <i>Contributions To Mineralogy and Petrology</i> , 1992, 111, 391-408.	1.2	13
115	Eliminating closure in mineral formulae with specific application to amphiboles. <i>American Mineralogist</i> , 1997, 82, 790-806.	0.9	13
116	Comment on "Experimental Test of Self-Shielding in Vacuum Ultraviolet Photodissociation of CO". <i>Science</i> , 2009, 324, 1516-1516.	6.0	13
117	Electrochemically controlled iron isotope fractionation. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 809-817.	1.6	13
118	9. Mass-independent Oxygen Isotope Variation in the Solar Nebula. , 2008, , 187-218.		12
119	Uniform Silicon Isotope Ratios Across the Milky Way Galaxy. <i>Astrophysical Journal</i> , 2017, 839, 123.	1.6	11
120	Origin and Evolution of Volatile-rich Asteroids. , 2017, , 92-114.		11
121	Fluid flow in metamorphic environments. <i>Reviews of Geophysics</i> , 1995, 33, 41.	9.0	10
122	An assessment of iron isotope fractionation during core formation. <i>Chemical Geology</i> , 2020, 554, 119800.	1.4	9
123	Experimental determination of the effect of Cr on Mg isotope fractionation between spinel and forsterite. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 296, 152-169.	1.6	9
124	Size scales over which ordinary chondrites and their parent asteroids are homogeneous in oxidation state and oxygen-isotopic composition. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 948-958.	1.6	8
125	Stable Isotope Cosmochemistry and the Evolution of Planetary Systems. <i>Elements</i> , 2011, 7, 23-28.	0.5	8
126	Silicate Melting and Volatile Loss During Differentiation in Planetesimals. , 2017, , 115-135.		8

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127	Titanium isotope systematics of refractory inclusions: Echoes of molecular cloud heterogeneity. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 324, 44-65. <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:mi mathvariant="normal">I</mml:mi><mml:msup><mml:mrow /><mml:mrow><mml:mn>13</mml:mn></mml:mrow></mml:msup><mml:msub><mml:mrow><mml:mi mathvariant="normal">CH</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:math>	1.6	7
128	High-precision determination of ¹³ Cé¹⁸O bonds in CO₂ using multicollector peak hopping. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 1185-1193.	0.7	6
130	Characterizing the Chemistry of Planetary Materials Around White Dwarf Stars. , 2018, , 1545-1566.		6
131	Planetary Evaporation. <i>Elements</i> , 2021, 17, 401-406.	0.5	5
132	Response to the Comment by S.B. Simon, L. Grossman, and S.R. Sutton on "Valence state of titanium in the Wark-Lovering rim of a Leoville CAI as a record of progressive oxidation in the early Solar Nebula". <i>Geochimica Et Cosmochimica Acta</i> , 2012, 85, 377-382.	1.6	4
133	The birth environment of the solar system constrained by the relative abundances of the solar radionuclides. <i>Proceedings of the International Astronomical Union</i> , 2018, 14, 70-77.	0.0	4
134	Isotope velocimetry: Experimental and theoretical demonstration of the potential importance of gas flow for isotope fractionation during evaporation of protoplanetary material. <i>Earth and Planetary Science Letters</i> , 2022, 589, 117575.	1.8	4
135	Reply to comment on 'Assessing the implications of K isotope cosmochemistry for evaporation in the preplanetary solar nebula' by E. Young. <i>Earth and Planetary Science Letters</i> , 2001, 192, 101-107.	1.8	3
136	Evaporating planetesimals. <i>Nature</i> , 2017, 549, 461-462.	13.7	3
137	Oxygen reservoirs in the early solar nebula inferred from an Allende CAI. <i>Science</i> , 1998, 282, 452-5.	6.0	3
138	Plutonism across the Tujunga-North American terrane boundary: A middle to upper crustal view of two juxtaposed magmatic arcs. <i>Proceedings of the International Conferences on Basement Tectonics</i> , 1992, , 205-230.	0.1	2
139	Exoplanetary oxygen fugacities from polluted white dwarf stars. <i>Proceedings of the International Astronomical Union</i> , 2019, 15, 28-32.	0.0	1
140	Characterizing the Chemistry of Planetary Materials Around White Dwarf Stars. , 2017, , 1-22.		1
141	Citation for presentation of the 2015 F. W. Clarke Award to Anat Shahar. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 172, 466-467.	1.6	0
142	Water and the Interior Structure of Terrestrial Planets and Icy Bodies. <i>Space Sciences Series of ISSI</i> , 2018, , 343-375.	0.0	0
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