

# Andrew Davis

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1415892/publications.pdf>

Version: 2024-02-01

154  
papers

12,701  
citations

15503

65  
h-index

24978

109  
g-index

157  
all docs

157  
docs citations

157  
times ranked

6910  
citing authors

#	ARTICLE	IF	CITATIONS
1	Is There a Difference between Leads and Drugs? A Historical Perspective. <i>Journal of Chemical Information and Computer Sciences</i> , 2001, 41, 1308-1315.	2.8	738
2	The Design of Leadlike Combinatorial Libraries. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 3743-3748.	13.8	719
3	The distribution of aluminum <sup>26</sup> in the early Solar System—A reappraisal. <i>Meteoritics</i> , 1995, 30, 365-386.	1.4	511
4	Ion Microprobe Study of Plagioclase-Basalt Partition Experiments at Natural Concentration Levels of Trace Elements. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 1175-1193.	3.9	409
5	Isotope fractionation by chemical diffusion between molten basalt and rhyolite. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 3905-3923.	3.9	401
6	The proto-Earth as a significant source of lunar material. <i>Nature Geoscience</i> , 2012, 5, 251-255.	12.9	335
7	Application and Limitations of X-ray Crystallographic Data in Structure-Based Ligand and Drug Design. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 2718-2736.	13.8	331
8	Clues from Fe Isotope Variations on the Origin of Early Archean BIFs from Greenland. <i>Science</i> , 2004, 306, 2077-2080.	12.6	254
9	Evolution of Bishop Tuff Rhyolitic Magma Based on Melt and Magnetite Inclusions and Zoned Phenocrysts. <i>Journal of Petrology</i> , 2000, 41, 449-473.	2.8	234
10	Gradients in H <sub>2</sub> O, CO <sub>2</sub> , and exsolved gas in a large-volume silicic magma system: Interpreting the record preserved in melt inclusions from the Bishop Tuff. <i>Journal of Geophysical Research</i> , 1999, 104, 20097-20122.	3.3	216
11	Isotope mass fractionation during evaporation of Mg <sub>2</sub> SiO <sub>4</sub> . <i>Nature</i> , 1990, 347, 655-658.	27.8	193
12	Radar-Enabled Recovery of the Sutter <sup>TM</sup> s Mill Meteorite, a Carbonaceous Chondrite Regolith Breccia. <i>Science</i> , 2012, 338, 1583-1587.	12.6	191
13	Isotopic Compositions of Strontium, Zirconium, Molybdenum, and Barium in Single Presolar SiC Grains and Asymptotic Giant Branch Stars. <i>Astrophysical Journal</i> , 2003, 593, 486-508.	4.5	182
14	Elemental and isotopic fractionation of Type B calcium-, aluminum-rich inclusions: experiments, theoretical considerations, and constraints on their thermal evolution. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 521-540.	3.9	177
15	Origin and chronology of chondritic components: A review. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 4963-4997.	3.9	171
16	Quantification of pre-eruptive exsolved gas contents in silicic magmas. <i>Nature</i> , 1995, 377, 612-616.	27.8	168
17	An Alternative Method for the Evaluation of Docking Performance: RSR vs RMSD. <i>Journal of Chemical Information and Modeling</i> , 2008, 48, 1411-1422.	5.4	166
18	Trace element partitioning between plagioclase and melt: investigation of dopant influence on partition behavior. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 2863-2878.	3.9	164

#	ARTICLE	IF	CITATIONS
19	The cosmic molybdenum-ruthenium isotope correlation. <i>Earth and Planetary Science Letters</i> , 2004, 226, 465-475.	4.4	159
20	Evidence for interstellar origin of seven dust particles collected by the Stardust spacecraft. <i>Science</i> , 2014, 345, 786-791.	12.6	152
21	Chromatographic Separation and Multicollection-ICPMS Analysis of Iron. Investigating Mass-Dependent and -Independent Isotope Effects. <i>Analytical Chemistry</i> , 2004, 76, 5855-5863.	6.5	150
22	Isotope fractionation by diffusion in molten oxides. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 2853-2861.	3.9	148
23	Condensation and fractionation of rare earths in the solar nebula. <i>Geochimica Et Cosmochimica Acta</i> , 1979, 43, 1611-1632.	3.9	146
24	Limitations and lessons in the use of X-ray structural information in drug design. <i>Drug Discovery Today</i> , 2008, 13, 831-841.	6.4	146
25	s-Process Zirconium in Presolar Silicon Carbide Grains. <i>Science</i> , 1997, 277, 1281-1284.	12.6	133
26	Major element chemical and isotopic compositions of refractory inclusions in C3 chondrites: the separate roles of condensation and evaporation. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 2879-2894.	3.9	131
27	Elemental and isotopic fractionation of Type B CAI-like liquids by evaporation. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 5544-5564.	3.9	128
28	Components of Successful Lead Generation. <i>Current Topics in Medicinal Chemistry</i> , 2005, 5, 421-439.	2.1	122
29	Calcium-48 isotopic anomalies in bulk chondrites and achondrites: Evidence for a uniform isotopic reservoir in the inner protoplanetary disk. <i>Earth and Planetary Science Letters</i> , 2014, 407, 96-108.	4.4	120
30	Chemical and isotopic fractionation during the evaporation of the FeO-MgO-SiO <sub>2</sub> -CaO-Al <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> rare earth element melt system. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 479-494.	3.9	116
31	Molybdenum Isotopic Composition of Individual Presolar Silicon Carbide Grains from the Murchison Meteorite. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 1093-1104.	3.9	114
32	Diffusion in silicate melts: I. Self diffusion in CaO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> at 1500°C and 1 GPa. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 4353-4367.	3.9	113
33	Isotopic records in CM hibonites: Implications for timescales of mixing of isotope reservoirs in the solar nebula. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 5051-5079.	3.9	113
34	Refractory inclusions in the prototypical CM chondrite, Mighei. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 5599-5625.	3.9	105
35	Zoned quartz phenocrysts from the rhyolitic Bishop Tuff. <i>American Mineralogist</i> , 2001, 86, 1034-1052.	1.9	105
36	A petrologic and ion microprobe study of a Vigarano Type B refractory inclusion: Evolution by multiple stages of alteration and melting. <i>Geochimica Et Cosmochimica Acta</i> , 1993, 57, 231-243.	3.9	102

#	ARTICLE	IF	CITATIONS
37	A stellar origin for the short-lived nuclides in the early Solar System. <i>Nature</i> , 1998, 391, 559-561.	27.8	101
38	A chemical and isotopic study of hibonite-rich refractory inclusions in primitive meteorites. <i>Geochimica Et Cosmochimica Acta</i> , 1988, 52, 2573-2598.	3.9	100
39	A new method for MC-ICPMS measurement of titanium isotopic composition: Identification of correlated isotope anomalies in meteorites. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 2197.	3.0	99
40	Predictive ADMET studies, the challenges and the opportunities. <i>Current Opinion in Chemical Biology</i> , 2004, 8, 378-386.	6.1	98
41	Fassaite composition trends during crystallization of Allende Type B refractory inclusion melts. <i>Geochimica Et Cosmochimica Acta</i> , 1991, 55, 2635-2655.	3.9	97
42	Mixing and differentiation in the Oruanui rhyolitic magma, Taupo, New Zealand: evidence from volatiles and trace elements in melt inclusions. <i>Contributions To Mineralogy and Petrology</i> , 2006, 151, 71-87.	3.1	97
43	Samples returned from the asteroid Ryugu are similar to Ivuna-type carbonaceous meteorites. <i>Science</i> , 2023, 379, .	12.6	97
44	Extinct $^{10}\text{Be}$ in Type A calcium-aluminum-rich inclusions from CV chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 3165-3179.	3.9	95
45	Short-Lived Nuclides in Hibonite Grains from Murchison: Evidence for Solar System Evolution. <i>Science</i> , 2002, 298, 2182-2185.	12.6	92
46	Iron 60 Evidence for Early Injection and Efficient Mixing of Stellar Debris in the Protosolar Nebula. <i>Astrophysical Journal</i> , 2008, 686, 560-569.	4.5	92
47	Chemical composition of HAL, an isotopically-unusual Allende inclusion. <i>Geochimica Et Cosmochimica Acta</i> , 1982, 46, 1627-1651.	3.9	90
48	Titanium isotopes and rare earth patterns in CAIs: Evidence for thermal processing and gas-dust decoupling in the protoplanetary disk. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 221, 275-295.	3.9	88
49	OXYGEN ISOTOPIC COMPOSITION OF THE SUN AND MEAN OXYGEN ISOTOPIC COMPOSITION OF THE PROTOSOLAR SILICATE DUST: EVIDENCE FROM REFRACTORY INCLUSIONS. <i>Astrophysical Journal</i> , 2010, 713, 1159-1166.	4.5	84
50	A link between oxygen, calcium and titanium isotopes in $^{26}\text{Al}$ -poor hibonite-rich CAIs from Murchison and implications for the heterogeneity of dust reservoirs in the solar nebula. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 189, 70-95.	3.9	83
51	Melt solidification and late-stage evaporation in the evolution of a FUN inclusion from the Vigarano C3V chondrite. <i>Geochimica Et Cosmochimica Acta</i> , 1991, 55, 621-637.	3.9	78
52	Multiple Generations of Refractory Inclusions in the Metal-Rich Carbonaceous Chondrites Acfer 182/214 and Isheyevo. <i>Astrophysical Journal</i> , 2008, 672, 713-721.	4.5	78
53	Extinct Technetium in Silicon Carbide Stardust Grains: Implications for Stellar Nucleosynthesis. <i>Science</i> , 2004, 303, 649-652.	12.6	77
54	Origin of compact type A refractory inclusions from CV3 carbonaceous chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 1233-1248.	3.9	75

#	ARTICLE	IF	CITATIONS
55	Analyzing individual presolar grains with CHARISMA. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 3215-3225.	3.9	75
56	Stardust in meteorites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 19142-19146.	7.1	75
57	Two forsterite-bearing FUN inclusions in the Allende meteorite. <i>Geochimica Et Cosmochimica Acta</i> , 1984, 48, 535-548.	3.9	74
58	Evaporation of single crystal forsterite: evaporation kinetics, magnesium isotope fractionation, and implications of mass-dependent isotopic fractionation of a diffusion-controlled reservoir. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 953-966.	3.9	74
59	Isotopic mass fractionation laws for magnesium and their effects on $^{26}\text{Al}$ - $^{26}\text{Mg}$ systematics in solar system materials. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 158, 245-261.	3.9	74
60	Barium isotopes in individual presolar silicon carbide grains from the Murchison meteorite. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 3201-3214.	3.9	73
61	Drug-like properties: guiding principles for design or chemical prejudice?. <i>Drug Discovery Today: Technologies</i> , 2004, 1, 189-195.	4.0	71
62	Strontium Isotopic Composition in Individual Circumstellar Silicon Carbide Grains: A Record of Pre-Process Nucleosynthesis. <i>Physical Review Letters</i> , 1998, 81, 3583-3586.	7.8	70
63	Zirconium and Molybdenum in Individual Circumstellar Graphite Grains: New Isotopic Data on the Nucleosynthesis of Heavy Elements. <i>Astrophysical Journal</i> , 1998, 504, 492-499.	4.5	70
64	CHILI the Chicago Instrument for Laser Ionization a new tool for isotope measurements in cosmochemistry. <i>International Journal of Mass Spectrometry</i> , 2016, 407, 1-15.	1.5	68
65	K, Mg, Ti and Ca isotopic compositions and refractory trace element abundances in hibonites from CM and CV meteorites: implications for early solar system processes. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 1989-2005.	3.9	67
66	EARLY SOLAR NEBULA CONDENSATES WITH CANONICAL, NOT SUPRACANONICAL, INITIAL $^{26}\text{Al}/^{27}\text{Al}$ RATIOS. <i>Astrophysical Journal Letters</i> , 2010, 711, L117-L121.	8.3	67
67	BARIUM ISOTOPIC COMPOSITION OF MAINSTREAM SILICON CARBIDES FROM MURCHISON: CONSTRAINTS FOR PRE-PROCESS NUCLEOSYNTHESIS IN ASYMPTOTIC GIANT BRANCH STARS. <i>Astrophysical Journal</i> , 2014, 786, 66.	4.5	67
68	CORRELATED STRONTIUM AND BARIUM ISOTOPIC COMPOSITIONS OF ACID-CLEANED SINGLE MAINSTREAM SILICON CARBIDES FROM MURCHISON. <i>Astrophysical Journal</i> , 2015, 803, 12.	4.5	65
69	Diffusional Gradients at the Crystal/Melt Interface and Their Effect on the Compositions of Melt Inclusions. <i>Journal of Geology</i> , 1995, 103, 591-597.	1.4	63
70	Internal $^{26}\text{Al}$ - $^{26}\text{Mg}$ isotope systematics of a Type B CAI: Remelting of refractory precursor solids. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 86, 37-51.	3.9	63
71	New constraints on the relationship between $^{26}\text{Al}$ and oxygen, calcium, and titanium isotopic variation in the early Solar System from a multielement isotopic study of spinel-hibonite inclusions. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 184, 151-172.	3.9	63
72	Atom probe analyses of nanodiamonds from Allende. <i>Meteoritics and Planetary Science</i> , 2014, 49, 453-467.	1.6	62

#	ARTICLE	IF	CITATIONS
73	Calcium-aluminum-rich inclusions with fractionation and unknown nuclear effects (FUN CAIs): I. Mineralogy, petrology, and oxygen isotopic compositions. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 145, 206-247.	3.9	57
74	Lifetimes of interstellar dust from cosmic ray exposure ages of presolar silicon carbide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 1884-1889.	7.1	57
75	A hibonite-rundum inclusion from Murchison: A first-generation condensate from the solar nebula. <i>Meteoritics and Planetary Science</i> , 2002, 37, 533-548.	1.6	56
76	Isotopically distinct reservoirs in the solar nebula: Isotope anomalies in Vigarano meteorite inclusions. <i>Astrophysical Journal</i> , 1994, 436, L193.	4.5	55
77	Timescales for the evolution of oxygen isotope compositions in the solar nebula. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 4998-5017.	3.9	53
78	Detection at the $^{39}\text{Ar}$ Abundance Level with Atom Trap Trace Analysis. <i>Physical Review Letters</i> , 2011, 106, 103001.	7.8	50
79	Heterogeneities of magnesium isotopes and $^{26}\text{Al}$ in the early Solar System inferred from in situ high-precision magnesium-isotope measurements. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 201, 6-24.	3.9	50
80	New instrument for microbeam analysis incorporating submicron imaging and resonance ionization mass spectrometry. <i>Review of Scientific Instruments</i> , 1995, 66, 3168-3176.	1.3	48
81	Constraining the $^{13}\text{C}$ neutron source in AGB stars through isotopic analysis of trace elements in presolar SiC. <i>Meteoritics and Planetary Science</i> , 2007, 42, 1103-1119.	1.6	48
82	Resonance ionization mass spectrometry for precise measurements of isotope ratios. <i>International Journal of Mass Spectrometry</i> , 2009, 288, 36-43.	1.5	47
83	Large negative Ti-50 anomalies in refractory inclusions from the Murchison carbonaceous chondrite - Evidence for incomplete mixing of neutron-rich supernova ejecta into the solar system. <i>Astrophysical Journal</i> , 1987, 313, 420.	4.5	47
84	Silicon isotopic fractionation of CAI-like vacuum evaporation residues. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 6390-6401.	3.9	46
85	Melt inclusions and crystal-liquid separation in rhyolitic magma of the Bishop Tuff. <i>Contributions To Mineralogy and Petrology</i> , 1992, 110, 113-120.	3.1	43
86	Conditions in the protoplanetary disk as seen by the type B CAIs. <i>Meteoritics and Planetary Science</i> , 2006, 41, 83-93.	1.6	43
87	THE IMPACT OF UPDATED Zr NEUTRON-CAPTURE CROSS SECTIONS AND NEW ASYMPTOTIC GIANT BRANCH MODELS ON OUR UNDERSTANDING OF THE $s$ -PROCESS AND THE ORIGIN OF STARDUST. <i>Astrophysical Journal</i> , 2014, 780, 95.	4.5	43
88	Formation of vesicles in asteroidal basaltic meteorites. <i>Earth and Planetary Science Letters</i> , 2006, 246, 102-108.	4.4	41
89	Calcium and titanium isotopic fractionations during evaporation. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 140, 365-380.	3.9	41
90	THE $^{13}\text{C}$ -POCKET STRUCTURE IN AGB MODELS: CONSTRAINTS FROM ZIRCONIUM ISOTOPE ABUNDANCES IN SINGLE MAINSTREAM SiC GRAINS. <i>Astrophysical Journal</i> , 2014, 788, 163.	4.5	40

#	ARTICLE	IF	CITATIONS
91	New Constraints on the Abundance of <sup>60</sup> Fe in the Early Solar System. <i>Astrophysical Journal Letters</i> , 2018, 857, L15.	8.3	40
92	Experimental evaporation of Mg- and Si-rich melts: Implications for the origin and evolution of FUN CAIs. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 123, 368-384.	3.9	39
93	Contrasting styles of hydrous metasomatism in the upper mantle: An ion microprobe investigation. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 1367-1385.	3.9	38
94	Differentiation history of the mesosiderite parent body: constraints from trace elements and manganese-chromium isotope systematics in Vaca Muerta silicate clasts. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 5047-5069.	3.9	37
95	A unique ultrarefractory inclusion from the Murchison meteorite. <i>Meteoritics and Planetary Science</i> , 1996, 31, 106-115.	1.6	36
96	High Precision Measurements of Non-Mass-Dependent Effects in Nickel Isotopes in Meteoritic Metal via Multicollector ICPMS. <i>Analytical Chemistry</i> , 2006, 78, 8477-8484.	6.5	36
97	Chemical compositions of refractory inclusions in the Murchison C2 chondrite. <i>Geochimica Et Cosmochimica Acta</i> , 1984, 48, 2089-2105.	3.9	35
98	Yes, Kakangari is a unique chondrite. <i>Nature</i> , 1977, 265, 230-232.	27.8	34
99	Potassic, high-silica Hadean crust. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6353-6356.	7.1	33
100	Surface Analysis by SNMS: Femtosecond Laser Postionization of Sputtered and Laser Desorbed Atoms. <i>Surface and Interface Analysis</i> , 1996, 24, 363-370.	1.8	31
101	Energetics of multicomponent diffusion in molten CaO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> . <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 635-646.	3.9	31
102	Crystallization of melilite from CMAS-liquids and the formation of the melilite mantle of Type B1 CAIs: Experimental simulations. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 2622-2642.	3.9	31
103	Mass-dependent fractionation of nickel isotopes in meteoritic metal. <i>Meteoritics and Planetary Science</i> , 2007, 42, 2067-2077.	1.6	31
104	<sup>176</sup> Lu/ <sup>176</sup> Hf: A Sensitive Test of $\epsilon$ -Process Temperature and Neutron Density in AGB Stars. <i>Astrophysical Journal</i> , 2008, 673, 434-444.	4.5	31
105	Strontium and barium isotopes in presolar silicon carbide grains measured with CHILI—two types of X grains. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 221, 109-126.	3.9	31
106	New Constraints on the Major Neutron Source in Low-mass AGB Stars. <i>Astrophysical Journal</i> , 2018, 865, 112.	4.5	29
107	Heating events in the nascent solar system recorded by rare earth element isotopic fractionation in refractory inclusions. <i>Science Advances</i> , 2021, 7, .	10.3	28
108	A multielement isotopic study of refractory FUN and F CAIs: Mass-dependent and mass-independent isotope effects. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 221, 296-317.	3.9	27

#	ARTICLE	IF	CITATIONS
109	Simultaneous iron and nickel isotopic analyses of presolar silicon carbide grains. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 221, 87-108.	3.9	27
110	Molybdenum Isotopes in Presolar Silicon Carbide Grains: Details of s-process Nucleosynthesis in Parent Stars and Implications for r- and p-processes. <i>Astrophysical Journal</i> , 2019, 877, 101.	4.5	27
111	Isotopic Analysis of Ca from Extraterrestrial Micrometer-Sized SiC by Laser Desorption and Resonant Ionization Mass Spectroscopy. <i>Analytical Chemistry</i> , 1997, 69, 1140-1146.	6.5	26
112	Refractory inclusions from the ungrouped carbonaceous chondrites MacAlpine Hills 87300 and 88107. <i>Meteoritics and Planetary Science</i> , 2000, 35, 1051-1066.	1.6	25
113	J-type Carbon Stars: A Dominant Source of $^{14}\text{N}$ -rich Presolar SiC Grains of Type AB. <i>Astrophysical Journal Letters</i> , 2017, 844, L12.	8.3	25
114	Presolar Silicon Carbide Grains of Types Y and Z: Their Molybdenum Isotopic Compositions and Stellar Origins. <i>Astrophysical Journal</i> , 2019, 881, 28.	4.5	23
115	Joersmithite, a plumbous amphibole revisited and comments on bond valences. <i>Mineralogy and Petrology</i> , 1993, 48, 97-113.	1.1	22
116	Formation of orange hibonite, as inferred from some Allende inclusions. <i>Meteoritics and Planetary Science</i> , 2001, 36, 331-350.	1.6	20
117	Mg and Si isotopic fractionation patterns in types B1 and B2 $\text{CaI}$ s: Implications for formation under different nebular conditions. <i>Meteoritics and Planetary Science</i> , 2013, 48, 1440-1458.	1.6	20
118	Condensate refractory inclusions from the CO3.00 chondrite Dominion Range 08006: Petrography, mineral chemistry, and isotopic compositions. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 246, 109-122.	3.9	20
119	Thermal beam of metastable krypton atoms produced by optical excitation. <i>Review of Scientific Instruments</i> , 2007, 78, 023103.	1.3	19
120	Stardust Interstellar Preliminary Examination $\text{II}$ : Curating the interstellar dust collector, pikokeystones, and sources of impact tracks. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1522-1547.	1.6	18
121	High early solar activity inferred from helium and neon excesses in the oldest meteorite inclusions. <i>Nature Astronomy</i> , 2018, 2, 709-713.	10.1	18
122	Nickel isotopic anomalies in troilite from iron meteorites. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	17
123	EXTINCT $^{93}\text{Zr}$ IN SINGLE PRESOLAR SiC GRAINS FROM LOW MASS ASYMPTOTIC GIANT BRANCH STARS AND CONDENSATION FROM Zr-DEPLETED GAS. <i>Astrophysical Journal</i> , 2010, 713, 212-219.	4.5	17
124	Common Occurrence of Explosive Hydrogen Burning in Type II Supernovae. <i>Astrophysical Journal</i> , 2018, 855, 144.	4.5	15
125	A unique type B inclusion from Allende with evidence for multiple stages of melting. <i>Meteoritics and Planetary Science</i> , 2005, 40, 461-475.	1.6	14
126	Mineralogy, petrography, and oxygen and aluminum-magnesium isotope systematics of grossite-bearing refractory inclusions. <i>Chemie Der Erde</i> , 2019, 79, 125529.	2.0	14



#	ARTICLE	IF	CITATIONS
127	Chemical characterization of a $\epsilon$ -mysterite-bearing clast from the Supuhee chondrite. <i>Geochimica Et Cosmochimica Acta</i> , 1977, 41, 853-856.	3.9	13
128	Calcium and titanium isotopes in refractory inclusions from CM, CO, and CR chondrites. <i>Earth and Planetary Science Letters</i> , 2018, 489, 179-190.	4.4	13
129	Atom-probe tomography and transmission electron microscopy of the kamacite-taenite interface in the fast-cooled Bristol IVA iron meteorite. <i>Meteoritics and Planetary Science</i> , 2017, 52, 2707-2729.	1.6	11
130	Iron and nickel isotope compositions of presolar silicon carbide grains from supernovae. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 221, 127-144.	3.9	11
131	Beam of metastable krypton atoms extracted from a microwave-driven discharge. <i>Review of Scientific Instruments</i> , 2006, 77, 126105.	1.3	10
132	Oxygen in the Sun. <i>Reviews in Mineralogy and Geochemistry</i> , 2008, 68, 73-92.	4.8	10
133	Molybdenum Isotope Dichotomy in Meteorites Caused by s-Process Variability. <i>Astrophysical Journal</i> , 2021, 909, 8.	4.5	9
134	Minute steps on the quest of the s-process. <i>Nuclear Physics A</i> , 2003, 718, 181-188.	1.5	8
135	Three-Color and 1 + 1 Resonance Ionization Mass Spectrometry of Zirconium Sputtered from Refractory Carbides. <i>Analytical Chemistry</i> , 1994, 66, 2647-2655.	6.5	7
136	Reassessing the thermal history of martian meteorite Shergotty and Apollo mare basalt 15555 using kinetic isotope fractionation of zoned minerals. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 295, 265-285.	3.9	7
137	400 my of Basic Magmatism in a Single Lithospheric Block during Cratonization: Ion Microprobe Study of Plagioclase Megacrysts in Mafic Rocks from Transbaikalia, Russia. <i>Journal of Petrology</i> , 1999, 40, 807-830.	2.8	6
138	The Design of Leadlike Combinatorial Libraries. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 3743-3748.	13.8	6
139	INAA determination of holmium in submilligram samples of cosmochemical and geochemical interest and the second-order activation interference. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1986, 102, 227-238.	1.5	5
140	Fall, classification, and exposure history of the Mifflin L5 chondrite. <i>Meteoritics and Planetary Science</i> , 2013, 48, 641-655.	1.6	5
141	The fall, recovery, classification, and initial characterization of the Hamburg, Michigan H4 chondrite. <i>Meteoritics and Planetary Science</i> , 2020, 55, 2341-2359.	1.6	4
142	A refractory inclusion with solar oxygen isotopes and the rarity of such objects in the meteorite record. <i>Meteoritics and Planetary Science</i> , 2020, 55, 524-534.	1.6	4
143	The Design of Leadlike Combinatorial Libraries. , 1999, 38, 3743.		4
144	The Search for Supernova Grains in an Ice Core. <i>Astrophysical Journal</i> , 2006, 652, 1763-1767.	4.5	3

#	ARTICLE	IF	CITATIONS
145	GEMS at the Galactic Cosmic-Ray Source. <i>Space Science Reviews</i> , 2007, 130, 451-456.	8.1	2
146	Ion Microscopy with Resonant Ionization Mass Spectrometry: Time-of-Flight Depth Profiling with Improved Isotopic Precision. <i>European Journal of Mass Spectrometry</i> , 2010, 16, 373-377.	1.0	2
147	Application and Limitations of X-Ray Crystallographic Data in Structure-Based Ligand and Drug Design.. <i>ChemInform</i> , 2003, 34, no.	0.0	1
148	The Search for Supernova Signatures in an Ice Core. <i>Nuclear Physics A</i> , 2005, 758, 276-279.	1.5	1
149	A breath of solar air. <i>Nature</i> , 2005, 434, 577-578.	27.8	1
150	Early Solar System Chronology. <i>Science</i> , 2009, 325, 951-952.	12.6	1
151	Atom-Probe Tomography of Meteoritic Nanodiamonds.. <i>Microscopy and Microanalysis</i> , 2014, 20, 1676-1677.	0.4	1
152	GEMS at the Galactic Cosmic-Ray Source. <i>Space Sciences Series of ISSI</i> , 2007, , 451-456.	0.0	1
153	Presolar SiC Grains and Rare Earth Element Production in AGB Stars. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	0
154	CHILL, a Nanobeam Secondary Neutral Mass Spectrometer with Extraordinary Spatial Resolution, Sensitivity, and Selectivity: First Results. <i>Microscopy and Microanalysis</i> , 2015, 21, 1143-1144.	0.4	0