Edward Anders

List of Publications by Year
in descending order

149 papers	24,298 citations	13827 67 h-index	8599 146 g-index
151 all docs	151 docs citations	151 times ranked	8826 citing authors

#	Article	IF	Citations
1	Abundances of the elements: Meteoritic and solar. Geochimica Et Cosmochimica Acta, 1989, 53, 197-214.	1.6	8,968
2	Solar-system abundances of the elements. Geochimica Et Cosmochimica Acta, 1982, 46, 2363-2380.	1.6	1,037
3	Interstellar diamonds in meteorites. Nature, 1987, 326, 160-162.	13.7	681
4	Origin, age, and composition of meteorites. Space Science Reviews, 1964, 3, 583.	3.7	664
5	Interstellar Grains in Primitive Meteorites: Diamond, Silicon Carbide, and Graphite. Meteoritics, 1993, 28, 490-514.	1.5	525
6	Chemical fractionations in meteoritesâ€”II. Abundance patterns and their interpretation. Geochimica Et Cosmochimica Acta, 1967, 31, 1239-1270.	1.6	519
7	Pre-biotic organic matter from comets and asteroids. Nature, 1989, 342, 255-257.	13.7	380
8	Noble gases in carbonaceous chondrites. Geochimica Et Cosmochimica Acta, 1970, 34, 781-824.	1.6	367
9	Meteorites and the Early Solar System. Annual Review of Astronomy and Astrophysics, 1971, 9, 1-34.	8.1	350
10	Interstellar grains in meteorites: I. Isolation of SiC, graphite and diamond; size distributions of SiC and graphite. Geochimica Et Cosmochimica Acta, 1994, 58, 459-470.	1.6	344
11	On the chemical evolution of the carbonaceous chondrites. Geochimica Et Cosmochimica Acta, 1962, 26, 1085-1114.	1.6	321
12	Chemical fractionations in meteoritesâ€”III. Major element fractionations in chondrites. Geochimica Et Cosmochimica Acta, 1970, 34, 367-387.	1.6	309
13	Evidence for interstellar SiC in the Murray carbonaceous meteorite. Nature, 1987, 330, 728-730.	13.7	306
14	Interstellar graphite in meteorites. Nature, 1990, 345, 238-240.	13.7	288
15	Distribution of gold and rhenium between nickel-iron and silicate melts: implications for the abundance of siderophile elements on the Earth and Moon. Geochimica Et Cosmochimica Acta, 1974, 38, 683-701.	1.6	244
16	Global fire at the Cretaceousâ€“ Tertiary boundary. Nature, 1988, 334, 665-669.	13.7	214
17	Interstellar grains in meteorites: II. SiC and its noble gases. Geochimica Et Cosmochimica Acta, 1994, 58, 471-494.	1.6	214
18	The Record in the Meteorites. III. on the Development of Meteorites in Asteroidal Bodies.. Astrophysical Journal, 1960, 132, 243.	1.6	212

#	Article	IF	Citations
19	Organic compounds in meteorites and their origins. Topics in Current Chemistry, 1981, , 1-37.	4.0	210
20	Isotopic anomalies of Ne, Xe, and C in meteorites. II. Interstellar diamond and SiC: Carriers of exotic noble gases. Geochimica Et Cosmochimica Acta, 1988, 52, 1235-1244.	1.6	204
21	Origin of organic matter in the early solar systemâ€"VII. The organic polymer in carbonaceous chondrites. Geochimica Et Cosmochimica Acta, 1977, 41, 1325-1339.	1.6	197
22	Properties, detectability and origin of interstellar diamonds in meteorites. Nature, 1989, 339, 117-121.	13.7	190
23	Chemical composition of Mars. Geochimica Et Cosmochimica Acta, 1979, 43, 1601-1610.	1.6	175
24	Origin of organic matter in early solar systemâ€"I. Hydrocarbons. Geochimica Et Cosmochimica Acta, 1968, 32, 151-173.	1.6	169
25	Origin of organic matter in early solar systemâ€"V. Further studies of meteoritic hydrocarbons and a discussion of their origin. Geochimica Et Cosmochimica Acta, 1972, 36, 189-215.	1.6	165
26	Abundance of 17 trace elements in carbonaceous chondrites. Geochimica Et Cosmochimica Acta, 1973, 37, 1353-1370.	1.6	149
27	Interstellar SiC in the Murchison and Murray meteorites: Isotopic composition of Ne, Xe, Si, C, and N. Geochimica Et Cosmochimica Acta, 1989, 53, 3273-3290.	1.6	149
28	Chemical fractionations in meteoritesâ€"V. Volatile and siderophile elements in achondrites and ocean ridge basalts. Geochimica Et Cosmochimica Acta, 1972, 36, 329-345.	1.6	148
29	Chemical processes in the early solar system, as inferred from meteorites. Accounts of Chemical Research, 1968, 1, 289-298.	7.6	146
30	Purines and triazines in the Murchison meteorite. Geochimica Et Cosmochimica Acta, 1975, 39, 471-488.	1.6	143
31	Chemical fractionations in meteoritesâ€"IV abundances of fourteen trace elements in L-chondrites; implications for cosmothermometry. Geochimica Et Cosmochimica Acta, 1971, 35, 337-363.	1.6	140
32	Meteoritic material at five large impact craters. Geochimica Et Cosmochimica Acta, 1978, 42, 313-323.	1.6	136
33	Meteoritic silicon carbide: pristine material from carbon stars. Nature, 1990, 348, 293-298.	13.7	136
34	Chemical fractionations in meteoritesâ€"VI. Accretion temperatures of H-, LL- and E-chondrites, from abundance of volatile trace elements. Geochimica Et Cosmochimica Acta, 1973, 37, 329-357.	1.6	130
35	Primordial noble gases in separated meteoritic mineralsâ€"I. Geochimica Et Cosmochimica Acta, 1970, 34, 1175-1198.	1.6	129
36	Large isotopic anomalies of Si, C, N and noble gases in interstellar silicon carbide from the Murray meteorite. Nature, 1987, 330, 730-732.	13.7	128

#	Article	IF	Citations
37	Elemental carbon in sediments: Determination and isotopic analysis in the presence of kerogen. Geochimica Et Cosmochimica Acta, 1989, 53, 1637-1647.	1.6	124
38	The record in the meteoritesâ€”IV. Geochimica Et Cosmochimica Acta, 1961, 24, 83-105.	1.6	120
39	Isotopic anomalies of noble gases in meteorites and their originsâ€”VI. Presolar components in the Murchison C2 chondrite. Geochimica Et Cosmochimica Acta, 1980, 44, 189-209.	1.6	120
40	Origin of organic matter in early solar systemâ€”II. Nitrogen compounds. Geochimica Et Cosmochimica Acta, 1968, 32, 175-190.	1.6	114
41	Canyon Diablo meteorite: Metallographic and mass spectrometric study of 56 fragments. Journal of Geophysical Research, 1966, 71, 619-641.	3.3	110
42	Interstellar grains in meteorites: III. Graphite and its noble gases. Geochimica Et Cosmochimica Acta, 1995, 59, 1411-1426.	1.6	110
43	Isotopic anomalies of noble gases in meteorites and their origins: 2. Separated minerals from Allende. Journal of Geophysical Research, 1977, 82, 779-792.	3.3	108
44	Noble gases in E-chondrites. Geochimica Et Cosmochimica Acta, 1981, 45, 2443-2464.	1.6	108
45	Characterisation of Q-gases and other noble gas components in the Murchison meteorite. Geochimica Et Cosmochimica Acta, 1992, 56, 2907-2921.	1.6	108
46	Further studies of trace elements in C3 chondrites. Geochimica Et Cosmochimica Acta, 1978, 42, 97-106.	1.6	107
47	Origin of organic matter in early solar systemâ€”III. Amino acids: Catalytic synthesis. Geochimica Et Cosmochimica Acta, 1971, 35, 927-938.	1.6	106
48	Moon and Earth : compositional differences inferred from siderophiles, volatiles, and alkalis in basalts. Geochimica Et Cosmochimica Acta, 1980, 44, 2111-2124.	1.6	98
49	Fragmentation history of asteroids. Icarus, 1965, 4, 399-408.	1.1	95
50	Noble gases in separated meteoritic minerals: Murchison (C2), Ornans (C3), Karoonda (C5), and Abee (E4). Journal of Geophysical Research, 1977, 82, 762-778.	3.3	92
51	Aluminum-26 in meteoritesâ€”VI. Achondrites. Geochimica Et Cosmochimica Acta, 1969, 33, 653-670.	1.6	90
52	How well do we know â€œCosmicâ€•abundances?. Geochimica Et Cosmochimica Acta, 1971, 35, 516-522.	1.6	87
53	Isotopic anomalies of noble gases in meteorites and their originsâ€”III. LL-chondrites. Geochimica Et Cosmochimica Acta, 1979, 43, 1399-1415.	1.6	87
54	Aubrites and diogenites: Trace element clues to their origin. Geochimica Et Cosmochimica Acta, 1983, 47, 2257-2270.	1.6	87

#	Article	IF	Citations
55	Meteorite Ages. Reviews of Modern Physics, 1962, 34, 287-325.	16.4	86
56	Ages of calcium-rich achondritesâ€"I. Eucrites. Geochimica Et Cosmochimica Acta, 1968, 32, 1241-1268.	1.6	85
57	Meteoritic material on the moon. The Moon, 1973, 8, 3-24.	0.4	85
58	Noble gases in â€œphase Qâ€: Closed-system etching of an Allende residue. Geochimica Et Cosmochimica Acta, 1991, 55, 1709-1722.	1.6	85
59	Do stony meteorites come from comets?. Icarus, 1975, 24, 363-371.	1.1	77
60	Isotopic, optical, and trace element properties of large single SiC grains from the Murchison meteorite. Geochimica Et Cosmochimica Acta, 1992, 56, 1715-1733.	1.6	76
61	Origin of organic matter in early solar systemâ€"IV. Amino acids: Confirmation of catalytic synthesis by mass spectrometry. Geochimica Et Cosmochimica Acta, 1971, 35, 939-951.	1.6	75
62	Chemical fractionations in meteoritesâ€"XI. C2 chondrites. Geochimica Et Cosmochimica Acta, 1980, 44, 711-717.	1.6	75
63	Meteorites with short cosmic-ray exposure ages, as determined from their Al26 content. Geochimica Et Cosmochimica Acta, 1967, 31, 1793-1809.	1.6	74
64	Noble gases in the Allende and Abee meteorites and a gas-rich mineral fraction: investigation by stepwise heating. Geochimica Et Cosmochimica Acta, 1978, 42, 183-198.	1.6	74
65	Chemical fractionations in meteoritesâ€"IX. C3 chondrites. Geochimica Et Cosmochimica Acta, 1976, 40, 1131-1139.	1.6	73
66	Absolute scale for radiation ages of stony meteorites. Geochimica Et Cosmochimica Acta, 1971, 35, 605-611.	1.6	71
67	Ages of calcium-rich achondritesâ€"II. Howardites, nakhlites, and the Angra dos Reis angrite. Geochimica Et Cosmochimica Acta, 1969, 33, 775-787.	1.6	68
68	Origin of organic matter in early solar systemâ€"VI. Catalytic synthesis of nitriles, nitrogen bases and porphyrin-like pigments. Geochimica Et Cosmochimica Acta, 1972, 36, 555-571.	1.6	68
69	A new Cretaceous-Tertiary boundary site at Flaxbourne River, New Zealand: Biostratigraphy and geochemistry. Geochimica Et Cosmochimica Acta, 1987, 51, 2769-2777.	1.6	68
70	Primordial gases in the Jodzie howardite and the origin of gas-rich meteorites. Geochimica Et Cosmochimica Acta, 1967, 31, 1441-1456.	1.6	66
71	Are C1 chondrites chemically fractionated? a trace element study. Geochimica Et Cosmochimica Acta, 1982, 46, 1849-1861.	1.6	66
72	Large amounts of extinct26Al in interstellar grains from the Murchison meteorite. Nature, 1991, 349, 51-54.	13.7	66

#	Article	IF	Citations
73	Solubilities of noble gases in magnetite: implications for planetary gases in meteorites. Geochimica Et Cosmochimica Acta, 1973, 37, 1371-1388.	1.6	62
74	Isotopic anomalies of Ne, Xe, and C in meteorites. I. Separation of carriers by density and chemical resistance. Geochimica Et Cosmochimica Acta, 1988, 52, 1221-1234.	1.6	62
75	The moon: Composition determined by nebular processes. The Moon and the Planets, 1978, 18, 465-478.	0.5	61
76	Cosmic ray exposure ages of iron meteorites by the Ne²¹/Al²⁶method. Journal of Geophysical Research, 1965, 70, 1473-1489.	3.3	59
77	Volatile elements in chondrites: metamorphism or nebular fractionation?. Geochimica Et Cosmochimica Acta, 1978, 42, 1859-1869.	1.6	58
78	Isotopic anomalies of noble gases in meteorites and their originsâ€”IV. C3 (Ornans) carbonaceous chondrites. Geochimica Et Cosmochimica Acta, 1979, 43, 1421-1432.	1.6	57
79	Isotopic anomalies of Ne, Xe, and C in meteorites. III. Local and exotic noble gas components and their interrelations. Geochimica Et Cosmochimica Acta, 1988, 52, 1245-1254.	1.6	55
80	Meteoritic silicon carbide and its stellar sources; implications for galactic chemical evolution. Nature, 1989, 339, 351-354.	13.7	55
81	Interstellar Molecules: Origin by Catalytic Reactions on Grain Surfaces?. Astrophysical Journal, 1974, 192, L101.	1.6	55
82	Fires at the K/T boundary: Carbon at the Sumbar, Turkmenia, site. Geochimica Et Cosmochimica Acta, 1990, 54, 1133-1146.	1.6	54
83	On the siting of noble gases in E-chondrites. Geochimica Et Cosmochimica Acta, 1982, 46, 2351-2361.	1.6	53
84	Enstatite chondrites: Trace element clues to their origin. Geochimica Et Cosmochimica Acta, 1983, 47, 2241-2255.	1.6	53
85	Cretaceous-Tertiary boundary event: Evidence for a short time scale. Geochimica Et Cosmochimica Acta, 1989, 53, 503-511.	1.6	52
86	Chemical fractionations in meteoritesâ€”X. Ureilites. Geochimica Et Cosmochimica Acta, 1976, 40, 1563-1571.	1.6	49
87	H-chondrites: Trace element clues to their origin. Geochimica Et Cosmochimica Acta, 1985, 49, 247-259.	1.6	48
88	Rochechouart Meteorite Crater: Identification of projectile. Journal of Geophysical Research, 1977, 82, 750-758.	3.3	47
89	Isotopic anomalies of noble gases in meteorites and their originsâ€”VII. C3V carbonaceous chondrites. Geochimica Et Cosmochimica Acta, 1980, 44, 1861-1874.	1.6	47
90	An ion microprobe study of corundum in the Murchison meteorite: Implications for 26A1 and 16O in the early solar system. Geochimica Et Cosmochimica Acta, 1991, 55, 2045-2062.	1.6	46

#	Article	IF	Citations
91	Some studies of an unusual eucrite: Ibitira. Geochimica Et Cosmochimica Acta, 1975, 39, 1205-1210.	1.6	45
92	34S/32S ratios for the different forms of sulphur in the Orgueil meteorite and their mode of formation. Geochimica Et Cosmochimica Acta, 1965, 29, 773-779.	1.6	44
93	Gas-rich minerals in the Allende meteorite: Attempted chemical characterization. Earth and Planetary Science Letters, 1977, 33, 401-406.	1.8	44
94	Laboratory simulation of meteoritic noble gases. I. Sorption of xenon on carbon: Trapping experiments. Geochimica Et Cosmochimica Acta, 1985, 49, 1035-1048.	1.6	44
95	Cosmic-ray exposure history of tektites. Journal of Geophysical Research, 1962, 67, 2913-2919.	3.3	43
96	Sorption of noble gases by solids, with reference to meteorites. I. Magnetite and carbon. Geochimica Et Cosmochimica Acta, 1982, 46, 841-860.	1.6	43
97	Search for extinct lead 205 in meteorites. Journal of Geophysical Research, 1960, 65, 3043-3048.	3.3	42
98	Interstellar silicon carbide - How much older than the solar system?. Astrophysical Journal, 1988, 335, L31.	1.6	42
99	Theories on the origin of meteorites. Journal of Chemical Education, 1961, 38, 58.	1.1	41
100	â€œMysteriteâ€•: a late condensate from the solar nebula. Geochimica Et Cosmochimica Acta, 1977, 41, 843-852.	1.6	41
101	Critique of â€œnebular condensation of moderately volatile elements and their abundances in ordinary chondritesâ€•by Chien M. Wai and John T. Wasson. Earth and Planetary Science Letters, 1977, 36, 14-20.	1.8	40
102	Sorption of noble gases by solids, with reference to meteorites. III. Sulfides, spinels, and other substances; on the origin of planetary gases. Geochimica Et Cosmochimica Acta, 1982, 46, 877-892.	1.6	40
103	Trapping of xenon in ice: implications for the origin of the Earth's noble gases. Geochimica Et Cosmochimica Acta, 1984, 48, 2373-2380.	1.6	40
104	Iodine content of meteorites and their I¹²⁹-Xe¹²⁹Ages. Journal of Geophysical Research, 1960, 65, 4181-4184.	3.3	36
105	Isotopic composition of primordial helium in carbonaceous chondrites. Geochimica Et Cosmochimica Acta, 1970, 34, 127-132.	1.6	36
106	Ureilites: Trace element clues to their origin. Geochimica Et Cosmochimica Acta, 1987, 51, 2275-2283.	1.6	36
107	Unequilibrated ordinary chondrites: A tentative subclassification based on volatile-element content. Geochimica Et Cosmochimica Acta, 1985, 49, 1281-1291.	1.6	34
108	Extinct I129 in C3 chondrites. Geochimica Et Cosmochimica Acta, 1982, 46, 2511-2525.	1.6	32

#	Article	IF	Citations
109	ON THE ORIGIN OF CARBONACEOUS CHONDRITES*. Annals of the New York Academy of Sciences, 2006, 108, 514-533.	1.8	30
110	The record in the meteorites: 6. On the chronology of the early solar system. Journal of Geophysical Research, 1961, 66, 889-898.	3.3	29
111	Interstellar Matter in Meteorites. Scientific American, 1983, 249, 66-77.	1.0	28
112	OBSERVATIONS ON THE NATURE OF THE â€œORGANIZED ELEMENTSâ€•IN CARBONACEOUS CHONDRITES. Annals of the New York Academy of Sciences, 2006, 108, 495-513.	1.8	27
113	Cohenite as a pressure indicator in iron meteorites ?. Geochimica Et Cosmochimica Acta, 1964, 28, 699-711.	1.6	26
114	Radiation age of the Norton County meteorite. Geochimica Et Cosmochimica Acta, 1971, 35, 239-244.	1.6	25
115	Farmington Meteorite: A fragment of an Apollo asteriod?. Icarus, 1976, 28, 307-324.	1.1	25
116	Critique of paper by N. L. Carter and G. C. Kennedy, â€˜Origin of diamonds in the Canyon Diablo and Novo Urei meteoritesâ€™. Journal of Geophysical Research, 1966, 71, 643-661.	3.3	24
117	Noble gases in eleven H-chondrites. Geochimica Et Cosmochimica Acta, 1973, 37, 359-362.	1.6	23
118	Serra de magÃ©: A meteorite with an unusual history. Earth and Planetary Science Letters, 1970, 8, 214-220.	1.8	21
119	Catalytic reactions in the solar nebula: Implications for interstellar molecules and organic compounds in meteorites. Origins of Life and Evolution of Biospheres, 1974, 5, 57-67.	0.6	21
120	Sorption of noble gases by solids, with reference to meteorites. II. Chromite and carbon. Geochimica Et Cosmochimica Acta, 1982, 46, 861-875.	1.6	21
121	METEORITIC HYDROCARBONS AND EXTRATERRESTRIAL LIFE*. Annals of the New York Academy of Sciences, 2006, 93, 651-657.	1.8	21
122	Meteoritic material in a Boulder from the Apollo 17 Site: Implications for its origin. The Moon, 1975, 14, 373-383.	0.4	20
123	A carbonaceous inclusion from the Krymka LL-chondrite: noble gases and trace elements. Geochimica Et Cosmochimica Acta, 1979, 43, 897-903.	1.6	20
124	Primordial noble gases in separated meteoritic minerals, II. Earth and Planetary Science Letters, 1974, 24, 173-181.	1.8	18
125	Isotopic anomalies in meteorites and their originsâ€”V. Search for fission fragment recoils in Allende sulfides. Geochimica Et Cosmochimica Acta, 1979, 43, 1743-1752.	1.6	18
126	Al-26 and O-16 in the early solar system - Clues from meteoritic Al2O3. Astrophysical Journal, 1991, 373, L77.	1.6	18

#	Article	IF	Citations
127	Meteoritic and non-meteoritic trace elements in Luna 16 samples. Earth and Planetary Science Letters, 1972, 13, 450-454.	1.8	16
128	Fission-track ages of four meteorites. Geochimica Et Cosmochimica Acta, 1976, 40, 467-477.	1.6	15
129	Interstellar Grains in Meteorites: Diamond and Silicon Carbide. , 1989, , 389-402.		15
130	Interrelations of Meteorites, Asteroids, and Comets. International Astronomical Union Colloquium, 1971, 12, 429-446.	0.1	14
131	ON THE DEPLETION OF MODERATELY VOLATILE ELEMENTS IN ORDINARY CHONDRITES. Meteoritics, 1975, 10, 283-286.	1.5	14
132	NOBLE GASES IN THE UNIQUE CHONDRITE, KAKANGARI. Meteoritics, 1977, 12, 417-424.	1.5	14
133	Luna 20 soil: abundance of 17 trace elements. Geochimica Et Cosmochimica Acta, 1973, 37, 953-961.	1.6	12
134	Origin of the Worzel Deep-Sea Ash. Nature, 1959, 184, 44-45.	13.7	10
135	Aluminum-26 in meteoritesâ€"VII. Ureilites, their unique radiation history. Geochimica Et Cosmochimica Acta, 1973, 37, 1803-1810.	1.6	10
136	Author's reply Validity of trace element cosmothermometer. Geochimica Et Cosmochimica Acta, 1975, 39, 1320-1324.	1.6	8
137	On the geochemical character of iodine in meteorites. Journal of Geophysical Research, 1961, 66, 3075-3077.	3.3	7
138	On the kinetics of volatile loss from chondrites. Geochimica Et Cosmochimica Acta, 1979, 43, 547-553.	1.6	7
139	Meteorites and the Early History of the Solar System. , 1963, , 95-142.		7
140	Notizen: Extinct Radioactivity and the Prehistory of the Solar System. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1961, 16, 520-521.	0.7	6
141	Procrustean science: Indigenous siderophiles in the lunar highlands, according to Delano and Ringwood. The Moon and the Planets, 1979, 20, 219-239.	0.5	6
142	Orbital Clues to the Nature of Meteorite Parent Bodies. Astrophysics and Space Science Library, 1969, , 559-572.	1.0	5
143	Noble gases in Allende minerals: Reply to Manuel's Critique. Journal of Geophysical Research, 1979, 84, 5685-5686.	3.3	4
144	Catalytic Reactions in the Solar Nebula: Implications for Interstellar Molecules and Organic Compounds in Meteorites. , 1974, , 57-67.		4

#	Article	IF	Citations
145	Interstellar Grains in Meteorites: Diamond and Silicon Carbide. Symposium - International Astronomical Union, 1989, 135, 389-402.	0.1	2
146	Reasons for not Having an Early Asteroid Mission. International Astronomical Union Colloquium, 1971, 12, 479-487.	0.1	1
147	Reply to â€œIsotopic Composition of the anomalous xenon in the Murchison Meteoriteâ€•by Stephen P. Smith. Geophysical Research Letters, 1979, 6, 59-61.	1.5	1
148	More Than One Star. Science, 1991, 253, 1076-1076.	6.0	0
149	Catalytic Reactions in the Solar Nebula: Implications for Interstellar Molecules and Organic Compounds in Meteorites. , 1974, , 57-67.		0