Edward Anders

List of Publications by Year
in descending order

149 papers	24,298 citations	15880 67 h-index	9865 146 g-index
151 all docs	151 docs citations	151 times ranked	9650 citing authors

#	Article	IF	Citations
1	METEORITIC HYDROCARBONS AND EXTRATERRESTRIAL LIFE*. Annals of the New York Academy of Sciences, 2006, 93, 651-657.	1.8	21
2	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
3	ON THE ORIGIN OF CARBONACEOUS CHONDRITES*. Annals of the New York Academy of Sciences, 2006, 108, 514-533.	1.8	30
4	Interstellar grains in meteorites: III. Graphite and its noble gases. Geochimica Et Cosmochimica Acta, 1995, 59, 1411-1426.	1.6	110
5	Interstellar grains in meteorites: II. SiC and its noble gases. Geochimica Et Cosmochimica Acta, 1994, 58, 471-494.	1.6	214
6	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
7	Interstellar Grains in Primitive Meteorites: Diamond, Silicon Carbide, and Graphite. Meteoritics, 1993, 28, 490-514.	1.5	525
8	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
9	Characterisation of Q-gases and other noble gas components in the Murchison meteorite. Geochimica Et Cosmochimica Acta, 1992, 56, 2907-2921.	1.6	108
10	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
11	Noble gases in â€œphase Qâ€• Closed-system etching of an Allende residue. Geochimica Et Cosmochimica Acta, 1991, 55, 1709-1722.	1.6	85
12	More Than One Star. Science, 1991, 253, 1076-1076.	6.0	0
13	Large amounts of extinct26Al in interstellar grains from the Murchison meteorite. Nature, 1991, 349, 51-54.	13.7	66
14	Al-26 and O-16 in the early solar system - Clues from meteoritic Al2O3. Astrophysical Journal, 1991, 373, L77.	1.6	18
15	Interstellar graphite in meteorites. Nature, 1990, 345, 238-240.	13.7	288
16	Meteoritic silicon carbide: pristine material from carbon stars. Nature, 1990, 348, 293-298.	13.7	136
17	Fires at the K/T boundary: Carbon at the Sumbar, Turkmenia, site. Geochimica Et Cosmochimica Acta, 1990, 54, 1133-1146.	1.6	54
18	Interstellar Grains in Meteorites: Diamond and Silicon Carbide. Symposium - International Astronomical Union, 1989, 135, 389-402.	0.1	2

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19	Properties, detectability and origin of interstellar diamonds in meteorites. Nature, 1989, 339, 117-121.	13.7	190
20	Meteoritic silicon carbide and its stellar sources; implications for galactic chemical evolution. Nature, 1989, 339, 351-354.	13.7	55
21	Pre-biotic organic matter from comets and asteroids. Nature, 1989, 342, 255-257.	13.7	380
22	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
23	Elemental carbon in sediments: Determination and isotopic analysis in the presence of kerogen. Geochimica Et Cosmochimica Acta, 1989, 53, 1637-1647.	1.6	124
24	Abundances of the elements: Meteoritic and solar. Geochimica Et Cosmochimica Acta, 1989, 53, 197-214.	1.6	8,968
25	Cretaceous-Tertiary boundary event: Evidence for a short time scale. Geochimica Et Cosmochimica Acta, 1989, 53, 503-511.	1.6	52
26	Interstellar Grains in Meteorites: Diamond and Silicon Carbide. , 1989, , 389-402.		15
27	Global fire at the Cretaceousâ€“ Tertiary boundary. Nature, 1988, 334, 665-669.	13.7	214
28	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
29	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
30	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
31	Interstellar silicon carbide - How much older than the solar system?. Astrophysical Journal, 1988, 335, L31.	1.6	42
32	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
33	Ureilites: Trace element clues to their origin. Geochimica Et Cosmochimica Acta, 1987, 51, 2275-2283.	1.6	36
34	Interstellar diamonds in meteorites. Nature, 1987, 326, 160-162.	13.7	681
35	Evidence for interstellar SiC in the Murray carbonaceous meteorite. Nature, 1987, 330, 728-730.	13.7	306
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

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37	Unequilibrated ordinary chondrites: A tentative subclassification based on volatile-element content. Geochimica Et Cosmochimica Acta, 1985, 49, 1281-1291.	1.6	34
38	H-chondrites: Trace element clues to their origin. Geochimica Et Cosmochimica Acta, 1985, 49, 247-259.	1.6	48
39	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
40	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
41	Interstellar Matter in Meteorites. Scientific American, 1983, 249, 66-77.	1.0	28
42	Enstatite chondrites: Trace element clues to their origin. Geochimica Et Cosmochimica Acta, 1983, 47, 2241-2255.	1.6	53
43	Aubrites and diogenites: Trace element clues to their origin. Geochimica Et Cosmochimica Acta, 1983, 47, 2257-2270.	1.6	87
44	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
45	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
46	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
47	Are C1 chondrites chemically fractionated? a trace element study. Geochimica Et Cosmochimica Acta, 1982, 46, 1849-1861.	1.6	66
48	On the siting of noble gases in E-chondrites. Geochimica Et Cosmochimica Acta, 1982, 46, 2351-2361.	1.6	53
49	Solar-system abundances of the elements. Geochimica Et Cosmochimica Acta, 1982, 46, 2363-2380.	1.6	1,037
50	Extinct I129 in C3 chondrites. Geochimica Et Cosmochimica Acta, 1982, 46, 2511-2525.	1.6	32
51	Noble gases in E-chondrites. Geochimica Et Cosmochimica Acta, 1981, 45, 2443-2464.	1.6	108
52	Organic compounds in meteorites and their origins. Topics in Current Chemistry, 1981, , 1-37.	4.0	210
53	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
54	Chemical fractionations in meteoritesâ€”XI. C2 chondrites. Geochimica Et Cosmochimica Acta, 1980, 44, 711-717.	1.6	75

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55	Moon and Earth : compositional differences inferred from siderophiles, volatiles, and alkalis in basalts. Geochimica Et Cosmochimica Acta, 1980, 44, 2111-2124.	1.6	98
56	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
57	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
58	Noble gases in Allende minerals: Reply to Manuel's Critique. Journal of Geophysical Research, 1979, 84, 5685-5686.	3.3	4
59	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
60	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
61	Isotopic anomalies of noble gases in meteorites and their originsâ€"III. LL-chondrites. Geochimica Et Cosmochimica Acta, 1979, 43, 1399-1415.	1.6	87
62	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
63	On the kinetics of volatile loss from chondrites. Geochimica Et Cosmochimica Acta, 1979, 43, 547-553.	1.6	7
64	Chemical composition of Mars. Geochimica Et Cosmochimica Acta, 1979, 43, 1601-1610.	1.6	175
65	A carbonaceous inclusion from the Krymka LL-chondrite: noble gases and trace elements. Geochimica Et Cosmochimica Acta, 1979, 43, 897-903.	1.6	20
66	The moon: Composition determined by nebular processes. The Moon and the Planets, 1978, 18, 465-478.	0.5	61
67	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
68	Meteoritic material at five large impact craters. Geochimica Et Cosmochimica Acta, 1978, 42, 313-323.	1.6	136
69	Further studies of trace elements in C3 chondrites. Geochimica Et Cosmochimica Acta, 1978, 42, 97-106.	1.6	107
70	Volatile elements in chondrites: metamorphism or nebular fractionation?. Geochimica Et Cosmochimica Acta, 1978, 42, 1859-1869.	1.6	58
71	NOBLE GASES IN THE UNIQUE CHONDRITE, KAKANGARI. Meteoritics, 1977, 12, 417-424.	1.5	14
72	Rochechouart Meteorite Crater: Identification of projectile. Journal of Geophysical Research, 1977, 82, 750-758.	3.3	47

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73	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
74	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
75	Gas-rich minerals in the Allende meteorite: Attempted chemical characterization. Earth and Planetary Science Letters, 1977, 33, 401-406.	1.8	44
76	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
77	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
78	â€œMysteriteâ€•: a late condensate from the solar nebula. Geochimica Et Cosmochimica Acta, 1977, 41, 843-852.	1.6	41
79	Fission-track ages of four meteorites. Geochimica Et Cosmochimica Acta, 1976, 40, 467-477.	1.6	15
80	Chemical fractionations in meteoritesâ€”IX. C3 chondrites. Geochimica Et Cosmochimica Acta, 1976, 40, 1131-1139.	1.6	73
81	Chemical fractionations in meteoritesâ€”X. Ureilites. Geochimica Et Cosmochimica Acta, 1976, 40, 1563-1571.	1.6	49
82	Farmington Meteorite: A fragment of an Apollo asteriod?. Icarus, 1976, 28, 307-324.	1.1	25
83	ON THE DEPLETION OF MODERATELY VOLATILE ELEMENTS IN ORDINARY CHONDRITES. Meteoritics, 1975, 10, 283-286.	1.5	14
84	Do stony meteorites come from comets?. Icarus, 1975, 24, 363-371.	1.1	77
85	Meteoritic material in a Boulder from the Apollo 17 Site: Implications for its origin. The Moon, 1975, 14, 373-383.	0.4	20
86	Purines and triazines in the Murchison meteorite. Geochimica Et Cosmochimica Acta, 1975, 39, 471-488.	1.6	143
87	Some studies of an unusual eucrite: Ibitira. Geochimica Et Cosmochimica Acta, 1975, 39, 1205-1210.	1.6	45
88	Author's reply Validity of trace element cosmothermometer. Geochimica Et Cosmochimica Acta, 1975, 39, 1320-1324.	1.6	8
89	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
90	Primordial noble gases in separated meteoritic minerals, II. Earth and Planetary Science Letters, 1974, 24, 173-181.	1.8	18

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91	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
92	Interstellar Molecules: Origin by Catalytic Reactions on Grain Surfaces?. Astrophysical Journal, 1974, 192, L101.	1.6	55
93	Catalytic Reactions in the Solar Nebula: Implications for Interstellar Molecules and Organic Compounds in Meteorites. , 1974, , 57-67.		4
94	Catalytic Reactions in the Solar Nebula: Implications for Interstellar Molecules and Organic Compounds in Meteorites. , 1974, , 57-67.		0
95	Meteoritic material on the moon. The Moon, 1973, 8, 3-24.	0.4	85
96	Solubilities of noble gases in magnetite: implications for planetary gases in meteorites. Geochimica Et Cosmochimica Acta, 1973, 37, 1371-1388.	1.6	62
97	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
98	Noble gases in eleven H-chondrites. Geochimica Et Cosmochimica Acta, 1973, 37, 359-362.	1.6	23
99	Aluminum-26 in meteoritesâ€"VII. Ureilites, their unique radiation history. Geochimica Et Cosmochimica Acta, 1973, 37, 1803-1810.	1.6	10
100	Luna 20 soil: abundance of 17 trace elements. Geochimica Et Cosmochimica Acta, 1973, 37, 953-961.	1.6	12
101	Abundance of 17 trace elements in carbonaceous chondrites. Geochimica Et Cosmochimica Acta, 1973, 37, 1353-1370.	1.6	149
102	Meteoritic and non-meteoritic trace elements in Luna 16 samples. Earth and Planetary Science Letters, 1972, 13, 450-454.	1.8	16
103	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
104	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
105	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
106	Meteorites and the Early Solar System. Annual Review of Astronomy and Astrophysics, 1971, 9, 1-34.	8.1	350
107	Origin of organic matter in early solar systemâ€"III. Amino acids: Catalytic synthesis. Geochimica Et Cosmochimica Acta, 1971, 35, 927-938.	1.6	106
108	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

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109	How well do we know â€œCosmicâ€•abundances?. Geochimica Et Cosmochimica Acta, 1971, 35, 516-522.	1.6	87
110	Radiation age of the Norton County meteorite. Geochimica Et Cosmochimica Acta, 1971, 35, 239-244.	1.6	25
111	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
112	Absolute scale for radiation ages of stony meteorites. Geochimica Et Cosmochimica Acta, 1971, 35, 605-611.	1.6	71
113	Reasons for not Having an Early Asteroid Mission. International Astronomical Union Colloquium, 1971, 12, 479-487.	0.1	1
114	Interrelations of Meteorites, Asteroids, and Comets. International Astronomical Union Colloquium, 1971, 12, 429-446.	0.1	14
115	Serra de magÃ©: A meteorite with an unusual history. Earth and Planetary Science Letters, 1970, 8, 214-220.	1.8	21
116	Noble gases in carbonaceous chondrites. Geochimica Et Cosmochimica Acta, 1970, 34, 781-824.	1.6	367
117	Primordial noble gases in separated meteoritic mineralsâ€”I. Geochimica Et Cosmochimica Acta, 1970, 34, 1175-1198.	1.6	129
118	Chemical fractionations in meteoritesâ€”III. Major element fractionations in chondrites. Geochimica Et Cosmochimica Acta, 1970, 34, 367-387.	1.6	309
119	Isotopic composition of primordial helium in carbonaceous chondrites. Geochimica Et Cosmochimica Acta, 1970, 34, 127-132.	1.6	36
120	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
121	Aluminum-26 in meteoritesâ€”VI. Achondrites. Geochimica Et Cosmochimica Acta, 1969, 33, 653-670.	1.6	90
122	Orbital Clues to the Nature of Meteorite Parent Bodies. Astrophysics and Space Science Library, 1969, , 559-572.	1.0	5
123	Ages of calcium-rich achondritesâ€”I. Eucrites. Geochimica Et Cosmochimica Acta, 1968, 32, 1241-1268.	1.6	85
124	Chemical processes in the early solar system, as inferred from meteorites. Accounts of Chemical Research, 1968, 1, 289-298.	7.6	146
125	Origin of organic matter in early solar systemâ€”I. Hydrocarbons. Geochimica Et Cosmochimica Acta, 1968, 32, 151-173.	1.6	169
126	Origin of organic matter in early solar systemâ€”II. Nitrogen compounds. Geochimica Et Cosmochimica Acta, 1968, 32, 175-190.	1.6	114

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127	Primordial gases in the Jodzie howardite and the origin of gas-rich meteorites. Geochimica Et Cosmochimica Acta, 1967, 31, 1441-1456.	1.6	66
128	Meteorites with short cosmic-ray exposure ages, as determined from their Al26 content. Geochimica Et Cosmochimica Acta, 1967, 31, 1793-1809.	1.6	74
129	Chemical fractionations in meteoritesâ€"II. Abundance patterns and their interpretation. Geochimica Et Cosmochimica Acta, 1967, 31, 1239-1270.	1.6	519
130	Canyon Diablo meteorite: Metallographic and mass spectrometric study of 56 fragments. Journal of Geophysical Research, 1966, 71, 619-641.	3.3	110
131	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
132	Fragmentation history of asteroids. Icarus, 1965, 4, 399-408.	1.1	95
133	Cosmic ray exposure ages of iron meteorites by the Ne²¹/Al²⁶method. Journal of Geophysical Research, 1965, 70, 1473-1489.	3.3	59
134	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
135	Origin, age, and composition of meteorites. Space Science Reviews, 1964, 3, 583.	3.7	664
136	Cohenite as a pressure indicator in iron meteorites ?. Geochimica Et Cosmochimica Acta, 1964, 28, 699-711.	1.6	26
137	Meteorites and the Early History of the Solar System. , 1963, , 95-142.		7
138	Meteorite Ages. Reviews of Modern Physics, 1962, 34, 287-325.	16.4	86
139	Cosmic-ray exposure history of tektites. Journal of Geophysical Research, 1962, 67, 2913-2919.	3.3	43
140	On the chemical evolution of the carbonaceous chondrites. Geochimica Et Cosmochimica Acta, 1962, 26, 1085-1114.	1.6	321
141	The record in the meteoritesâ€"IV. Geochimica Et Cosmochimica Acta, 1961, 24, 83-105.	1.6	120
142	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
143	On the geochemical character of iodine in meteorites. Journal of Geophysical Research, 1961, 66, 3075-3077.	3.3	7
144	Theories on the origin of meteorites. Journal of Chemical Education, 1961, 38, 58.	1.1	41

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145	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
146	Search for extinct lead 205 in meteorites. Journal of Geophysical Research, 1960, 65, 3043-3048.	3.3	42
147	Iodine content of meteorites and their I¹²⁹-Xe¹²⁹Ages. Journal of Geophysical Research, 1960, 65, 4181-4184.	3.3	36
148	The Record in the Meteorites. III. on the Development of Meteorites in Asteroidal Bodies.. Astrophysical Journal, 1960, 132, 243.	1.6	212
149	Origin of the Worzel Deep-Sea Ash. Nature, 1959, 184, 44-45.	13.7	10