John T Wasson

List of Publications by Year
in descending order

206	14,307	9756 73	24915 109
papers	citations	h-index	g-index

207	207	207	2932
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Progressive aqueous alteration of CM carbonaceous chondrites. Geochimica Et Cosmochimica Acta, 2007, 71, 2361-2382.	1.6	421
2	The origin of KREEP. Reviews of Geophysics, 1979, 17, 73-88.	9.0	405
3	Ordinary chondrites: Bulk compositions, classification, lithophile-element fractionations and composition-petrographic type relationships. Geochimica Et Cosmochimica Acta, 1989, 53, 2747-2767.	1.6	315
4	The compositional classification of chondritesâ€"I. The carbonaceous chondrite groups. Geochimica Et Cosmochimica Acta, 1981, 45, 1217-1230.	1.6	309
5	Classification and properties of iron meteorites. Reviews of Geophysics, 1975, 13, 527-546.	9.0	262
6	Nebular condensation of moderately volatile elements and their abundances in ordinary chondrites. Earth and Planetary Science Letters, 1977, 36, 1-13.	1.8	243
7	Meteorites. Minerals and Rocks, 1974, , .	0.3	228
8	The compositional classification of chondrites: V. The Karoonda (CK) group of carbonaceous chondrites. Geochimica Et Cosmochimica Acta, 1991, 55, 881-892.	1.6	223
9	the IAB iron-meteorite complex: A group, five subgroups, numerous grouplets, closely related, mainly formed by crystal segregation in rapidly cooling melts. Geochimica Et Cosmochimica Acta, 2002, 66, 2445-2473.	1.6	223
10	The compositional classification of chondrites: VI. The CR carbonaceous chondrite group. Geochimica Et Cosmochimica Acta, 1994, 58, 2873-2888.	1.6	184
11	Siderophile-enriched sediments from the Cretaceousâ€"Tertiary boundary. Nature, 1980, 288, 651-656.	13.7	178
12	Composition of the metal phases in ordinary chondrites: implications regarding classification and metamorphism. Geochimica Et Cosmochimica Acta, 1980, 44, 431-446.	1.6	170
13	The compositional classification of chondrites: VII. The R chondrite group. Geochimica Et Cosmochimica Acta, 1996, 60, 2243-2256.	1.6	157
14	Formation of ordinary chondrites. Reviews of Geophysics, 1972, 10, 711-759.	9.0	147
15	Classification and origin of IAB and IIICD iron meteorites. Geochimica Et Cosmochimica Acta, 1995, 59, 593-612.	1.6	146
16	The compositional classification of chondrites: II The enstatite chondrite groups. Geochimica Et Cosmochimica Acta, 1982, 46, 597-608.	1.6	139
17	Chondrules, matrix and coarse-grained chondrule rims in the Allende meteorite: Origin, interrelationships and possible precursor components. Geochimica Et Cosmochimica Acta, 1987, 51, 1923-1937.	1.6	137
18	Carbide-magnetite assemblages in type-3 ordinary chondrites. Geochimica Et Cosmochimica Acta, 1997, 61, 219-237.	1.6	133

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19	Petrology and chemistry of two â€œlargeâ€•granite clasts from the moon. Earth and Planetary Science Letters, 1983, 64, 175-185.	1.8	132
20	Chemical classification of iron meteoritesâ€”VIII. Groups IC. IIE, IIIF and 97 other irons. Geochimica Et Cosmochimica Acta, 1976, 40, 103-115.	1.6	130
21	Compositions of enstatite (EH3, EH4,5 and EL6) chondrites: Implications regarding their formation. Geochimica Et Cosmochimica Acta, 1986, 50, 2153-2164.	1.6	130
22	Ru, Re, Os, Pt and Au in iron meteorites. Geochimica Et Cosmochimica Acta, 1987, 51, 1717-1726.	1.6	130
23	The origin and history of the metal and sulfide components of chondrules. Geochimica Et Cosmochimica Acta, 1985, 49, 925-939.	1.6	128
24	FRACTIONATION OF MODERATELY VOLATILE ELEMENTS IN ORDINARY CHONDRITES. Meteoritics, 1974, 9, 69-84.	1.5	127
25	The chemical classification of iron meteoritesâ€”VII. A reinvestigation of irons with Ge concentrations between 25 and 80 ppm. Geochimica Et Cosmochimica Acta, 1973, 37, 1957-1983.	1.6	125
26	Elemental fractionations among enstatite chondrites. Geochimica Et Cosmochimica Acta, 1975, 39, 735-765.	1.6	125
27	Composition of the metal, schreibersite and perryite of enstatite achondrites and the origin of enstatite chondrites and achondrites. Geochimica Et Cosmochimica Acta, 1970, 34, 169-184.	1.6	122
28	Extreme oxygen-isotope compositions in magnetite from unequilibrated ordinary chondrites. Nature, 1998, 392, 577-579.	13.7	122
29	Formation of metal and silicate globules in Gujba: a new Bencubbin-like meteorite fall. Geochimica Et Cosmochimica Acta, 2003, 67, 3283-3298.	1.6	121
30	Chemical classification of iron meteoritesâ€”X. Multielement studies of 43 irons, resolution of group IIIE from IIIAB, and evaluation of Cu as a taxonomic parameter. Geochimica Et Cosmochimica Acta, 1984, 48, 785-804.	1.6	116
31	Mineralogy and petrology of amoeboid olivine inclusions in CO3 chondrites: Relationship to parentâ€body aqueous alteration. Meteoritics and Planetary Science, 2002, 37, 1781-1796.	0.7	116
32	Chemical classification of iron meteorites: XI. Multi-element studies of 38 new irons and the high abundance of ungrouped irons from Antarctica. Geochimica Et Cosmochimica Acta, 1989, 53, 735-744.	1.6	115
33	Refractory precursor components of Semarkona chondrules and the fractionation of refractory elements among chondrites. Geochimica Et Cosmochimica Acta, 1983, 47, 759-771.	1.6	114
34	Main-group pallasites. Geochimica Et Cosmochimica Acta, 2003, 67, 3079-3096.	1.6	114
35	A nonmagmatic origin of group-IIE iron meteorites. Geochimica Et Cosmochimica Acta, 1986, 50, 725-732.	1.6	113
36	Trapped melt in IIIAB irons; solid/liquid elemental partitioning during the fractionation of the IIIAB magma. Geochimica Et Cosmochimica Acta, 1999, 63, 2875-2889.	1.6	113

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37	Progressive aqueous alteration of CR carbonaceous chondrites. Geochimica Et Cosmochimica Acta, 2014, 139, 267-292.	1.6	113
38	The chemical classification of iron meteoritesâ€"II. Irons and pallasites with germanium concentrations between 8 and 100 ppm. Geochimica Et Cosmochimica Acta, 1967, 31, 2065-2093.	1.6	111
39	Non-nebular origin of dark mantles around chondrules and inclusions in CM chondrites. Geochimica Et Cosmochimica Acta, 2006, 70, 1271-1290.	1.6	111
40	Evidence for primitive nebular components in chondrules from the Chainpur chondrite. Geochimica Et Cosmochimica Acta, 1982, 46, 1081-1099.	1.6	109
41	Siderophile interelement variations in the Cretaceous-Tertiary boundary sediments from Caravaca, Spain. Earth and Planetary Science Letters, 1985, 73, 183-195.	1.8	109
42	The chemical classification of iron meteoritesâ€"III. Hexahedrites and other irons with germanium concentrations between 80 and 200 ppm. Geochimica Et Cosmochimica Acta, 1969, 33, 859-876.	1.6	107
43	The compositional classification of chondrites: III. Ungrouped carbonaceous chondrites. Geochimica Et Cosmochimica Acta, 1982, 46, 2217-2228.	1.6	106
44	Initial 26Al/27Al in carbonaceous-chondrite chondrules: too little 26Al to melt asteroids. Geochimica Et Cosmochimica Acta, 2004, 68, 2947-2957.	1.6	106
45	Chemical classification of iron meteoritesâ€"IX. A new group (IIF), revision of IAB and IIICD, and data on 57 additional irons. Geochimica Et Cosmochimica Acta, 1980, 44, 773-787.	1.6	105
46	Chondrules in the Qingzhen type-3 enstatite chondrite: Possible precursor components and comparison to ordinary chondrite chondrules. Geochimica Et Cosmochimica Acta, 1985, 49, 1781-1795.	1.6	105
47	Fractionation trends among IVA iron meteorites: contrasts with IIIAB trends. Geochimica Et Cosmochimica Acta, 2001, 65, 951-970.	1.6	102
48	Gallium, germanium, indium and iridium variations in a suite of L-group chondrites. Geochimica Et Cosmochimica Acta, 1968, 32, 1087-1109.	1.6	101
49	Compound chondrules. Geochimica Et Cosmochimica Acta, 1995, 59, 1847-1869.	1.6	100
50	Formation of IIAB iron meteorites. Geochimica Et Cosmochimica Acta, 2007, 71, 760-781.	1.6	100
51	Origin of Iron Meteorite Groups IAB and IIICD. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1980, 35, 781-795.	0.7	98
52	Metal and associated phases in Bishunpur, a highly unequilibrated ordinary chondrite. Geochimica Et Cosmochimica Acta, 1981, 45, 1001-1015.	1.6	97
53	Compositional evidence regarding the influx of interplanetary materials onto the lunar surface. The Moon, 1975, 13, 121-141.	0.4	93
54	The Portales Valley meteorite breccia: evidence for impact-induced melting and metamorphism of an ordinary chondrite. Geochimica Et Cosmochimica Acta, 2001, 65, 323-342.	1.6	93

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55	The chemical classification of iron meteorites. Icarus, 1970, 12, 407-423.	1.1	92
56	The chemical classification of iron meteorites: I. A study of iron meteorites with low concentrations of gallium and germanium. Geochimica Et Cosmochimica Acta, 1967, 31, 161-180.	1.6	91
57	Metalâ€“silicate silicon isotope fractionation in enstatite meteorites and constraints on Earth's core formation. Earth and Planetary Science Letters, 2010, 295, 487-496.	1.8	90
58	Classification of and elemental fractionation among ureilites. Geochimica Et Cosmochimica Acta, 1976, 40, 1449-1458.	1.6	88
59	Allan Hills 85085: A subchondritic meteorite of mixed nebular and regolithic heritage. Earth and Planetary Science Letters, 1990, 101, 148-161.	1.8	88
60	Constraints on chondrule origins. Meteoritics, 1993, 28, 14-28.	1.5	86
61	Extremely rapid cooling of a carbonaceous-chondrite chondrule containing very 16O-rich olivine and a 26Mg-excess. Geochimica Et Cosmochimica Acta, 2002, 66, 4355-4363.	1.6	86
62	Pt-Re-Os systematics of group IIAB and IIIAB iron meteorites 1 1Associate editor: G. Herzog. Geochimica Et Cosmochimica Acta, 2004, 68, 1413-1431.	1.6	86
63	Compositions of large metal nodules in mesosiderites: Links to iron meteorite group IIIAB and the origin of mesosiderite subgroups. Geochimica Et Cosmochimica Acta, 1990, 54, 3197-3208.	1.6	83
64	Chondrules in the Murray CM2 meteorite and compositional differences between CM-CO and ordinary chondrite chondrules. Geochimica Et Cosmochimica Acta, 1986, 50, 307-315.	1.6	82
65	Chemical Classification of Iron Meteorites: XII. New Members of the Magmatic Groups. Geochimica Et Cosmochimica Acta, 1998, 62, 715-724.	1.6	82
66	The compositional classification of chondrites: IV. Ungrouped chondritic meteorites and clasts. Geochimica Et Cosmochimica Acta, 1985, 49, 261-270.	1.6	81
67	Carbonates in CM chondrites: Complex formational histories and comparison to carbonates in CI chondrites. Meteoritics and Planetary Science, 2010, 45, 513-530.	0.7	79
68	Allende inclusions: volatile-element distribution and evidence for incomplete volatilization of presolar solids. Geochimica Et Cosmochimica Acta, 1976, 40, 85-94.	1.6	76
69	High noble metal concentrations in a late Pliocene sediment. Nature, 1981, 292, 417-420.	13.7	75
70	16 O-rich melilite in CO3.0 chondrites: possible formation of common, 16 O-poor melilite by aqueous alteration. Geochimica Et Cosmochimica Acta, 2001, 65, 4539-4549.	1.6	75
71	Beryllium-10 in Australasian tektites: Constraints on the location of the source crater. Geochimica Et Cosmochimica Acta, 2004, 68, 3883-3896.	1.6	75
72	Paucity of sulfide in a large slab of Esquel: New perspectives on pallasite formation. Meteoritics and Planetary Science, 1998, 33, 221-227.	0.7	74

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73	Oxygen isotopes in chondrules and coarse-grained chondrule rims from the Allende meteorite. Earth and Planetary Science Letters, 1990, 96, 247-255.	1.8	72
74	Troilite in the chondrules of type-3 ordinary chondrites: implications for chondrule formation. Geochimica Et Cosmochimica Acta, 1999, 63, 2281-2298.	1.6	72
75	Compositions and taxonomy of 15 unusual carbonaceous chondrites. Meteoritics and Planetary Science, 2010, 45, 531-554.	0.7	71
76	Mariboâ€"A new CM fall from Denmark. Meteoritics and Planetary Science, 2012, 47, 30-50.	0.7	71
77	Nebular condensation of Ga, Ge and Sb and the chemical classification of iron meteorites. Nature, 1979, 282, 790-793.	13.7	70
78	Igneous rims on low-FeO and high-FeO chondrules in ordinary chondrites. Geochimica Et Cosmochimica Acta, 1995, 59, 4951-4966.	1.6	70
79	Ubiquitous low-FeO relict grains in type II chondrules and limited overgrowths on phenocrysts following the final melting event. Geochimica Et Cosmochimica Acta, 2003, 67, 2239-2250.	1.6	70
80	Large Aerial Bursts: An Important Class of Terrestrial Accretionary Events. Astrobiology, 2003, 3, 163-179.	1.5	70
81	Fine, nickel-poor Fe-Ni grains in the olivine of unequilibrated ordinary chondrites. Geochimica Et Cosmochimica Acta, 1982, 46, 929-939.	1.6	69
82	The role of S in the evolution of the parental cores of the iron meteorites. Geochimica Et Cosmochimica Acta, 1982, 46, 2419-2426.	1.6	68
83	Composition of matrix in the CR chondrite LAP 02342. Geochimica Et Cosmochimica Acta, 2009, 73, 1436-1460.	1.6	68
84	Origin of magnetite in oxidized CV chondrites: in situ measurement of oxygen isotope compositions of Allende magnetite and olivine. Earth and Planetary Science Letters, 1997, 146, 337-349.	1.8	66
85	Origin of metallic Fe-Ni in Renazzo and related chondrites. Geochimica Et Cosmochimica Acta, 1992, 56, 2521-2533.	1.6	65
86	Layered tektites: a multiple impact origin for the Australasian tektites. Earth and Planetary Science Letters, 1991, 102, 95-109.	1.8	63
87	Distribution of Ni, Ga, Ge and Ir between metal and silicate portions of H-group chondrites. Geochimica Et Cosmochimica Acta, 1973, 37, 2159-2171.	1.6	61
88	Formation of the Bencubbin polymict meteoritic breccia. Geochimica Et Cosmochimica Acta, 1978, 42, 507-515.	1.6	61
89	53Mnâ€"53Cr systematics of carbonates in CM chondrites: Implications for the timing and duration of aqueous alteration. Geochimica Et Cosmochimica Acta, 2009, 73, 7433-7442.	1.6	61
90	Properties of the Guin ungrouped iron meteorite: the origin of Guin and of group-IIE irons. Earth and Planetary Science Letters, 1986, 76, 209-226.	1.8	59

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91	Relationship between siderophilic-element content and oxidation state of ordinary chondrites. Geochimica Et Cosmochimica Acta, 1971, 35, 1121-1137.	1.6	58
92	Oxygen-isotopic compositions of relict and host grains in chondrules in the Yamato 81020 CO3.0 chondrite. Geochimica Et Cosmochimica Acta, 2004, 68, 3599-3606.	1.6	58
93	Massive chromite in the Brenham pallasite and the fractionation of Cr during the crystallization of asteroidal cores. Geochimica Et Cosmochimica Acta, 1999, 63, 1219-1232.	1.6	57
94	The chemical classification of iron meteoritesâ€"V groups IIIC and IIID and other irons with germanium concentrations between 1 and 25 ppm. Icarus, 1971, 14, 59-70.	1.1	56
95	Contribution of the mantle to the lunar asymmetry. Icarus, 1980, 44, 752-771.	1.1	56
96	Chondrules and matrix in the Ornans CO3 meteorite: Possible precursor components. Geochimica Et Cosmochimica Acta, 1988, 52, 425-432.	1.6	56
97	The Ningqiang Meteorite: Classification and Petrology of an Anomalous CV Chondrite. Meteoritics, 1988, 23, 13-23.	1.5	56
98	Silica and pyroxene in IVA irons; possible formation of the IVA magma by impact melting and reduction of L-LL-chondrite materials followed by crystallization and cooling. Geochimica Et Cosmochimica Acta, 2006, 70, 3149-3172.	1.6	56
99	Formation of mesosiderites by low-velocity impacts as a natural consequence of planet formation. Nature, 1985, 318, 168-170.	13.7	55
100	Composition and formation of metal nodules and veins in ordinary chondrites. Geochimica Et Cosmochimica Acta, 1986, 50, 1989-1995.	1.6	55
101	Systematic compositional variations in the Cape York iron meteorite. Geochimica Et Cosmochimica Acta, 1982, 46, 1913-1920.	1.6	54
102	Reduction during metamorphism of four ordinary chondrites. Geochimica Et Cosmochimica Acta, 1993, 57, 1867-1878.	1.6	54
103	Oxygen isotopes in magnetite and fayalite in CV chondrites Kaba and Mokoia. Meteoritics and Planetary Science, 2000, 35, 1239-1248.	0.7	54
104	Metal and associated phases in Krymka and Chainpur: Nebular formational processes. Geochimica Et Cosmochimica Acta, 1984, 48, 1885-1897.	1.6	53
105	Seventh Foray: Whitlockiteâ€rich lithologies, a diopsideâ€bearing troctolitic anorthosite, Ferroan anorthosites, and KREEP. Journal of Geophysical Research, 1983, 88, B151.	3.3	52
106	Sixth foray for pristine nonmare rocks and an assessment of the diversity of lunar anorthosites. Journal of Geophysical Research, 1983, 88, A615.	3.3	52
107	Compositional trends and cooling rates of group IVB iron meteorites. Geochimica Et Cosmochimica Acta, 1984, 48, 805-813.	1.6	52
108	The IIG iron meteorites: Probable formation in the IIAB core. Geochimica Et Cosmochimica Acta, 2009, 73, 4879-4890.	1.6	52

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109	The Lodran meteorite and its relationship to the ureilites. Mineralogical Magazine, 1976, 40, 721-735.	0.6	51
110	Mesosiderites and howardites: igneous formation and possible genetic relationships. Geochimica Et Cosmochimica Acta, 1979, 43, 673-688.	1.6	51
111	THE PARSA ENSTATITE CHONDRITE. Meteoritics, 1980, 15, 225-233.	1.5	51
112	Composition and origin of clasts and inclusions in the Abee enstatite chondrite breccia. Earth and Planetary Science Letters, 1983, 62, 180-192.	1.8	51
113	Ni, Ga, Ge and Ir in the metal of iron-meteorites-with-silicate-inclusions. Geochimica Et Cosmochimica Acta, 1970, 34, 957-964.	1.6	50
114	The histories of ordinary chondrite parent bodies: U,Thâ€He age distributions. Meteoritics, 1991, 26, 161-167.	1.5	50
115	Mesosideritesâ€"I. Compositions of their metallic portions and possible relationship to other metal-rich meteorite groups. Geochimica Et Cosmochimica Acta, 1974, 38, 135-149.	1.6	49
116	Silicaâ€•merrihueite/roedderiteâ€•bearing chondrules and clasts in ordinary chondrites: New occurrences and possible origin. Meteoritics, 1994, 29, 707-718.	1.5	48
117	Oxygen isotopes in R-chondrite magnetite and olivine: links between R chondrites and ordinary chondrites. Geochimica Et Cosmochimica Acta, 2000, 64, 3897-3911.	1.6	46
118	Shock effects in â€œEH6â€•enstatite chondrites and implications for collisional heating of the EH and EL parent asteroids. Geochimica Et Cosmochimica Acta, 2011, 75, 3757-3780.	1.6	46
119	Oxygen-isotopic evolution of the solar nebula. Reviews of Geophysics, 2000, 38, 491-512.	9.0	44
120	Vesta and extensively melted asteroids: Why HED meteorites are probably not from Vesta. Earth and Planetary Science Letters, 2013, 381, 138-146.	1.8	44
121	Oxygen-isotopic compositions of low-FeO relicts in high-FeO host chondrules in Acfer 094, a type 3.0 carbonaceous chondrite closely related to CM. Geochimica Et Cosmochimica Acta, 2005, 69, 3831-3840.	1.6	43
122	Formation of non-magmatic iron-meteorite group IIE. Geochimica Et Cosmochimica Acta, 2017, 197, 396-416.	1.6	43
123	Compositional and petrographic similarities of CV and CK chondrites: A single group with variations in textures and volatile concentrations attributable to impact heating, crushing and oxidation. Geochimica Et Cosmochimica Acta, 2013, 108, 45-62.	1.6	42
124	Clastic matrix in EH3 chondrites. Meteoritics and Planetary Science, 2009, 44, 589-601.	0.7	41
125	Cooling rates of group IVA iron meteorites. Earth and Planetary Science Letters, 1978, 40, 141-150.	1.8	39
126	Compositional trends among IID irons; their possible formation from the P-rich lower magma in a two-layer core. Geochimica Et Cosmochimica Acta, 2006, 70, 6153-6167.	1.6	39

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127	Explanation for the very low Ga and Ge concentrations in some iron meteorite groups. Nature, 1976, 261, 114-116.	13.7	38
128	Metal in CR chondrites. Geochimica Et Cosmochimica Acta, 2010, 74, 2212-2230.	1.6	38
129	Neutron Activation Determination of Iridium in Meteorites. Radiochimica Acta, 1968, 10, 69-76.	0.5	37
130	Volatiles in chainpur chondrules. Geophysical Research Letters, 1979, 6, 597-600.	1.5	36
131	BOCAIUVAâ€"A SILICATEâ€INCLUSION BEARING IRON METEORITE RELATED TO THE EAGLEâ€STATION PALLASITES. Meteoritics, 1985, 20, 259-273.	1.5	36
132	R-chondrite bulk-chemical compositions and diverse oxides: Implications for parent-body processes. Geochimica Et Cosmochimica Acta, 2014, 124, 131-151.	1.6	36
133	Trace Element Partitioning between Taenite and Kamacite; Relationship to the Cooling Rates of Iron Meteorites. Meteoritics, 1988, 23, 107-112.	1.5	35
134	Iridium anomaly associated with the Australasian tektite-producing impact: Masses of the impactor and of the Australasian tektites. Geochimica Et Cosmochimica Acta, 1993, 57, 4851-4859.	1.6	35
135	Siderophile-element anomalies in CK carbonaceous chondrites: Implications for parent-body aqueous alteration and terrestrial weathering of sulfides. Geochimica Et Cosmochimica Acta, 2006, 70, 4019-4037.	1.6	35
136	Silicon concentrations in the metal of iron meteorites. Geochimica Et Cosmochimica Acta, 1969, 33, 1465-1471.	1.6	34
137	Secondary melting events in Semarkona chondrules revealed by compositional zoning in low-Ca pyroxene. Geochimica Et Cosmochimica Acta, 2017, 211, 256-279.	1.6	34
138	Si-rich Feâ€"Ni grains in highly unequilibrated chondrites. Nature, 1980, 287, 817-820.	13.7	33
139	Possible impact-induced refractory-lithophile fractionations in EL chondrites. Geochimica Et Cosmochimica Acta, 2009, 73, 1523-1537.	1.6	33
140	Variations in impact effects among <scp>IIIE</scp> iron meteorites. Meteoritics and Planetary Science, 2016, 51, 1611-1631.	0.7	33
141	Compositional evidence regarding the origins of rims on Semarkona chondrules. Geochimica Et Cosmochimica Acta, 1987, 51, 3003-3011.	1.6	32
142	Evaporation of nebular fines during chondrule formation. Icarus, 2008, 195, 895-907.	1.1	32
143	Non-spherical lobate chondrules in CO3.0 Y-81020: General implications for the formation of low-FeO porphyritic chondrules in CO chondrites. Geochimica Et Cosmochimica Acta, 2005, 69, 211-220.	1.6	31
144	Carbon-rich chondritic clast PV1 from the Plainview H-chondrite regolith breccia: Formation from H3 chondrite material by possible cometary impact. Geochimica Et Cosmochimica Acta, 2005, 69, 3419-3430.	1.6	31

#	Article	IF	Citations
145	Reply to Edward Anders: A discussion of alternative models for explaining the distribution of moderately volatile elements in ordinary chondrites. Earth and Planetary Science Letters, 1977, 36, 21-28.	1.8	28
146	Fayalite-silica association in unequilibrated ordinary chondrites: Evidence for aqueous alteration on a parent body. Earth and Planetary Science Letters, 1994, 122, 403-416.	1.8	28
147	Compositional range in the Canyon Diablo meteoroid. Geochimica Et Cosmochimica Acta, 1990, 54, 3175-3183.	1.6	27
148	Relationship between iron-meteorite composition and size: Compositional distribution of irons from North Africa. Geochimica Et Cosmochimica Acta, 2011, 75, 1757-1772.	1.6	27
149	Possible Sources of Meteoritic Material from Hopewell Indian Burial Mounds. Nature, 1969, 222, 22-24.	13.7	25
150	Equilibration temperatures of EL chondrites: A major downward revision in the ferrosilite contents of enstatite. Meteoritics, 1994, 29, 658-662.	1.5	25
151	AN EQUATION FOR THE DETERMINATION OF IRONâ€METEORITE COOLING RATES. Meteoritics, 1971, 6, 139-147.	1.5	24
152	The origin of chromitic chondrules and the volatility of Cr under a range of nebular conditions. Earth and Planetary Science Letters, 1993, 119, 569-584.	1.8	24
153	Excavation and analysis of layered tektites from northeast Thailand: Results of 1994 field expedition. Meteoritics and Planetary Science, 1996, 31, 36-41.	0.7	24
154	Silicon in the Nedagolla ataxite and the relationship between Si and Cr in reduced iron meteorites. Geochimica Et Cosmochimica Acta, 1970, 34, 408-410.	1.6	23
155	Evidence in CO3.0 chondrules for a drift in the O isotopic composition of the solar nebula. Meteoritics and Planetary Science, 2004, 39, 1591-1598.	0.7	23
156	Shock effects in the Willamette ungrouped iron meteorite. Meteoritics and Planetary Science, 2015, 50, 1984-1994.	0.7	22
157	Instrumental Meutron Activation Analysis of Iron Meteorites. Radiochimica Acta, 1981, 29, 45-52.	0.5	21
158	Microscale oxygen isotopic exchange and magnetite formation in the Ningqiang anomalous carbonaceous chondrite. Geochimica Et Cosmochimica Acta, 2003, 67, 4655-4660.	1.6	21
159	Determination by Neutron Activation of Gallium and Germanium in Iron Meteorites. Radiochimica Acta, 1966, 5, 170-174.	0.5	20
160	A core origin for group IVA iron meteorites: a reply to Moren and Goldstein. Earth and Planetary Science Letters, 1978, 40, 162-167.	1.8	20
161	Exposing metal and silicate charges to electrical discharges: Did chondrules form by nebular lightning?. Icarus, 2008, 195, 504-510.	1.1	20
162	Tektites and climate. Journal of Geophysical Research, 1993, 98, 3043-3052.	3.3	19

#	Article	IF	Citations
163	Volatile elements on the earth and the moon. Earth and Planetary Science Letters, 1971, 11, 219-225.	1.8	17
164	Concentrations of nickel, gallium, germanium, and iridium in Canyon Diablo and other Arizona octahedrites. Journal of Geophysical Research, 1968, 73, 3207-3211.	3.3	15
165	The Twannberg (Switzerland) IIG iron meteorites: Mineralogy, chemistry, and CRE ages. Meteoritics and Planetary Science, 2009, 44, 187-199.	0.7	15
166	Matrix and whole-rock fractionations in the Acfer 094 type 3.0 ungrouped carbonaceous chondrite. Meteoritics and Planetary Science, 2010, 45, 73.	0.7	15
167	Notizen: Messung der Einfanggamma- und RÃ¶ntgen-Spektren von Sm und Gd. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1960, 15, 276-276.	0.7	14
168	Concentrations of Ni, Ga, and Ge in a series of Canyon Diablo and Odessa meteorite specimens. Journal of Geophysical Research, 1967, 72, 721-730.	3.3	14
169	Siderophiles and volatiles in Apollo-16 rocks and soils. Geochimica Et Cosmochimica Acta, 1975, 39, 1475-1485.	1.6	14
170	Geochemical constraints on the nature of large accretionary events. Special Paper of the Geological Society of America, 1982, , 235-242.	0.5	14
171	Chondrules in the LEW85332 ungrouped carbonaceous chondrite: fractionation processes in the solar nebula. Geochimica Et Cosmochimica Acta, 2000, 64, 1279-1290.	1.6	14
172	Co/Ni ratios at taenite/kamacite interfaces and relative cooling rates in iron meteorites. Geochimica Et Cosmochimica Acta, 2012, 84, 508-524.	1.6	14
173	The VicÃªncia meteorite fall: A new unshocked (S1) weakly metamorphosed (3.2) <scp>LL</scp> chondrite. Meteoritics and Planetary Science, 2015, 50, 1089-1111.	0.7	14
174	Element distribution in size fractions of Apollo-16 soils: Evidence for element mobility during regolith processes. Earth and Planetary Science Letters, 1976, 29, 21-33.	1.8	13
175	Compositional Study of a Suite of Samples from the 28â€‰Armanty (Xinjiang) Iron Meteorite. Meteoritics, 1988, 23, 365-369.	1.5	13
176	Field recovery of layered tektites in northeast Thailand. Journal of Geophysical Research, 1995, 100, 14383.	3.3	13
177	Primordial Rare Gases in the Atmosphere of the Earth. Nature, 1969, 223, 163-165.	13.7	12
178	A AB-complex iron meteorite containing low-Ca clinopyroxene. Geochimica Et Cosmochimica Acta, 2002, 66, 3657-3671.	1.6	12
179	Low-Ir IAB irons from Morasko and other locations in central Europe: One fall, possibly distinct from IAB-MG. Meteoritics and Planetary Science, 2013, 48, 2531-2541.	0.7	12
180	Extralunar materials in Apollo 16 soils and the decay rate of the extralunar flux 4.0 Gy ago. Earth and Planetary Science Letters, 1972, 17, 79-83.	1.8	11

#	Article	IF	Citations
181	New Chilean iron meteorites: Medium octahedrites from Northern Chile are unique. Meteoritics and Planetary Science, 1998, 33, 175-179.	0.7	11
182	Composition and classification of clasts in the St. Mesmin LL chondrite breccia. Earth and Planetary Science Letters, 1981, 54, 367-378.	1.8	9
183	Fractionated matrix composition in CV3 Vigarano and alteration processes on the CV parent asteroid. Meteoritics and Planetary Science, 2012, 47, 1035-1048.	0.7	9
184	Formation of the Treysa quintet and the main-group pallasites by impact-generated processes in the IIIAB asteroid. Meteoritics and Planetary Science, 2016, 51, 773-784.	0.7	9
185	The Anoka, Minnesota iron meteorite as parent to Hopewell meteoritic metal beads from Havana, Illinois. Journal of Archaeological Science, 2017, 81, 13-22.	1.2	9
186	Comparison of Iron Meteoritic Material From Ohio and Illinois Hopewellian Burial Mounds. American Antiquity, 1976, 41, 489-491.	0.6	8
187	FOUR NEW IRON METEORITE FINDS. Meteoritics, 1977, 12, 425-436.	1.5	8
188	Neutron Activation Determination of Indium in Meteorites. Radiochimica Acta, 1967, 8, 184-188.	0.5	7
189	Refractory element fractionations among carbonaceous chondrite groups. Nature, 1979, 282, 827-829.	13.7	7
190	Absence of matrixâ€like chondrule rims in <scp>CR</scp>2 <scp>LAP</scp> 02342. Meteoritics and Planetary Science, 2014, 49, 245-260.	0.7	7
191	On the origin of lunar soil 12033. Earth and Planetary Science Letters, 1971, 10, 361-364.	1.8	6
192	A 10.8â€kg layered (Muongâ€Nongâ€type) tektite from Wenchang, Hainan, China. Meteoritics, 1993, 28, 136-137.	1.5	6
193	Willow Grove: A unique nickelâ€rich ataxite from Victoria, Australia. Meteoritics and Planetary Science, 2001, 36, A247.	0.7	6
194	Distribution of 28 elements in size fractions of lunar mare and highlands soils. Geochimica Et Cosmochimica Acta, 1977, 41, 1073-1082.	1.6	5
195	Mbosi: An anomalous iron with unique silicate inclusions. Meteoritics and Planetary Science, 1996, 31, 633-639.	0.7	5
196	Campo del Cielo: A Campo by any other name. Meteoritics and Planetary Science, 2019, 54, 280-289.	0.7	5
197	The compositional classification of some Chinese iron meteorites. Geochemistry, 1983, 2, 34-44.	0.1	5
198	Differentiated meteorites. Eos, 1971, 52, IUGG441.	0.1	4

#	Article	IF	Citations
199	Extralunar materials in Cone-Crater soil 14141. Geochimica Et Cosmochimica Acta, 1973, 37, 2349-2353.	1.6	4
200	Differences of Composition among Australian Iron Meteorites. Nature, 1967, 216, 880-880.	13.7	3
201	Indium, gallium and germanium concentration levels in high-purity silica. Analytica Chimica Acta, 1968, 41, 397-399.	2.6	1
202	Meteorite research. Reviews of Geophysics, 1975, 13, 113-116.	9.0	1
203	Naked stars and hot meteorites. Nature, 1990, 345, 208-209.	13.7	1
204	A superâ€refractory inclusion containing nonstoichiometric spinel from the CO3.0 chondrite Yamato 81020. Meteoritics and Planetary Science, 0, , .	0.7	1
205	Cutting the Old Woman Meteorite. Eos, 1979, 60, 522.	0.1	0
206	Memorial: George West Wetherill (1925â€“2006). Meteoritics and Planetary Science, 2007, 42, 149-150.	0.7	0