

Edward R D Scott

List of Publications by Year in descending order

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34016

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2763
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#	ARTICLE	IF	CITATIONS
1	Cooling rates and impact histories of group IAB and other IAB complex iron meteorites inferred from zoned taenite and the cloudy zone. <i>Meteoritics and Planetary Science</i> , 2022, 57, 238-260.	0.7	6
2	Complementary nucleosynthetic isotope anomalies of Mo and W in chondrules and matrix in the Allende carbonaceous chondrite: The case for hydrothermal metamorphism and its implications. <i>Meteoritics and Planetary Science</i> , 2022, 57, 450-471.	0.7	5
3	Discovery and Implications of Hidden Atomic-Scale Structure in a Metallic Meteorite. <i>Nano Letters</i> , 2021, 21, 8135-8142.	4.5	4
4	David J. Barber (1935–2020). <i>Meteoritics and Planetary Science</i> , 2020, 55, 2794-2796.	0.7	0
5	Isotopic Dichotomy among Meteorites and Its Bearing on the Protoplanetary Disk. <i>Astrophysical Journal</i> , 2018, 854, 164.	1.6	76
6	ISOTOPIC DICHOTOMY AMONG METEORITES AND IMPLICATIONS FOR THE EVOLUTION OF THE PROTOPLANETARY DISK. <i>Proceedings of the ... Lunar and Planetary Science Conference.</i> , 2018, 2018, .	0.0	0
7	NEBULAR HISTORY OF DIFFERENTIATED AND CHONDRITIC PLANETESIMALS. <i>Meteoritics and Planetary Science</i> , 2018, 81, 6168.	0.7	0
8	Ion microprobe analyses of carbon in Fe–Ni metal in iron meteorites and mesosiderites. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 200, 367-407.	1.6	23
9	Origin of mass-independent oxygen isotope variation among ureilites: Clues from chondrites and primitive achondrites. <i>Meteoritics and Planetary Science</i> , 2017, 52, 690-708.	0.7	39
10	Iron and Stony-iron Meteorites: Evidence for the Formation, Crystallization, and Early Impact Histories of Differentiated Planetesimals. , 2017, , 136-158.		5
11	Joseph I. Goldstein (1939–2015). <i>Meteoritics and Planetary Science</i> , 2016, 51, 438-440.	0.7	0
12	Oxygen isotope and petrological study of silicate inclusions in IIE iron meteorites and their relationship with H chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 173, 97-113.	1.6	28
13	Dating the Moon-forming impact event with asteroidal meteorites. <i>Science</i> , 2015, 348, 321-323.	6.0	94
14	Geochemistry and oxygen isotope composition of main-group pallasites and olivine-rich clasts in mesosiderites: Implications for the “Great Dunite Shortage” and HED-mesosiderite connection. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 169, 115-136.	1.6	48
15	Thermal and impact history of the H chondrite parent asteroid during metamorphism: Constraints from metallic Fe–Ni. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 136, 13-37.	1.6	59
16	Possible mechanism for explaining the origin and size distribution of Martian hematite spherules. <i>Planetary and Space Science</i> , 2014, 92, 16-23.	0.9	13
17	The oxygen isotope composition of diogenites: Evidence for early global melting on a single, compositionally diverse, HED parent body. <i>Earth and Planetary Science Letters</i> , 2014, 390, 165-174.	1.8	50
18	Thermal and collisional history of Tishomingo iron meteorite: More evidence for early disruption of differentiated planetesimals. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 124, 34-53.	1.6	32

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19	Determining cooling rates of iron and stony-iron meteorites from measurements of Ni and Co at kamacite-taenite interfaces. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 140, 297-320.	1.6	42
20	The pressures and temperatures of meteorite impact: Evidence from micro-Raman mapping of mineral phases in the strongly shocked Taiban ordinary chondrite. <i>American Mineralogist</i> , 2013, 98, 859-869.	0.9	29
21	<i>Handbook of Iron Meteorites</i> by Vagn F. Buchwald, 1975: Electronic edition. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2608-2608.	0.7	6
22	Evidence for a Dynamo in the Main Group Pallasite Parent Body. <i>Science</i> , 2012, 338, 939-942.	6.0	108
23	The origin of chondrules and chondrites: Debris from low-velocity impacts between molten planetesimals?. <i>Meteoritics and Planetary Science</i> , 2012, 47, 2170-2192.	0.7	97
24	Workshop on Formation of the First Solids in the Solar System—Honoring Klaus Keil for his Distinguished Career in Meteoritics and Cosmochemistry. <i>Meteoritics and Planetary Science</i> , 2012, 47, 1889-1890.	0.7	1
25	ON THE EFFECT OF GIANT PLANETS ON THE SCATTERING OF PARENT BODIES OF IRON METEORITE FROM THE TERRESTRIAL PLANET REGION INTO THE ASTEROID BELT: A CONCEPT STUDY. <i>Astrophysical Journal</i> , 2012, 749, 113.	1.6	27
26	Thermal and impact histories of reheated group IVA, IVB, and ungrouped iron meteorites and their parent asteroids. <i>Meteoritics and Planetary Science</i> , 2011, 46, 1227-1252.	0.7	31
27	Impact histories of angrites, eucrites, and their parent bodies. <i>Meteoritics and Planetary Science</i> , 2011, 46, 1878-1887.	0.7	29
28	Meteorites: An Overview. <i>Elements</i> , 2011, 7, 47-48.	0.5	7
29	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.	1.6	84
30	Thermal history and origin of the IVB iron meteorites and their parent body. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 4493-4506.	1.6	42
31	Main-group pallasites: Thermal history, relationship to IIIAB irons, and origin. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 4471-4492.	1.6	99
32	Thermal histories of IVA iron meteorites from transmission electron microscopy of the cloudy zone microstructure. <i>Meteoritics and Planetary Science</i> , 2009, 44, 343-358.	0.7	35
33	Implications of the carbonaceous chondrite Mn-Cr isochron for the formation of early refractory planetesimals and chondrules. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 5137-5149.	1.6	13
34	Oxygen isotopic constraints on the origin and parent bodies of eucrites, diogenites, and howardites. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 5835-5853.	1.6	148
35	Metallographic cooling rates and origin of IVA iron meteorites. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 3043-3061.	1.6	77
36	Chondrites and the Protoplanetary Disk. <i>Annual Review of Earth and Planetary Sciences</i> , 2007, 35, 577-620.	4.6	201

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37	Iron meteorite evidence for early formation and catastrophic disruption of protoplanets. <i>Nature</i> , 2007, 446, 888-891.	13.7	137
38	Shock and thermal history of Martian meteorite Allan Hills 84001 from transmission electron microscopy. <i>Meteoritics and Planetary Science</i> , 2006, 41, 643-662.	0.7	21
39	Nature and Origins of Meteoritic Breccias. , 2006, , 679-712.		184
40	Meteoritic and other constraints on the internal structure and impact history of small asteroids. <i>Icarus</i> , 2005, 174, 46-53.	1.1	15
41	Evolution of Oxygen Isotopic Composition in the Inner Solar Nebula. <i>Astrophysical Journal</i> , 2005, 622, 1333-1342.	1.6	77
42	Thermal Processing of Silicate Dust in the Solar Nebula: Clues from Primitive Chondrite Matrices. <i>Astrophysical Journal</i> , 2005, 623, 571-578.	1.6	74
43	Geochemistry of target rocks, impact-melt particles, and metallic spherules from Meteor Crater, Arizona: Empirical evidence on the impact process. , 2005, , .		9
44	Remote Raman and laser-induced fluorescence (RLIF) emission instrument for detection of mineral, organic, and biogenic materials on Mars to 100 meters radial distance. , 2004, 5660, 128.		10
45	Ureilitic breccias: clues to the petrologic structure and impact disruption of the ureilite parent asteroid. <i>Chemie Der Erde</i> , 2004, 64, 283-327.	0.8	149
46	A possible source for the Martian crustal magnetic field. <i>Earth and Planetary Science Letters</i> , 2004, 220, 83-90.	1.8	37
47	Transmission electron microscopy of minerals in the martian meteorite Allan Hills 84001. <i>Meteoritics and Planetary Science</i> , 2003, 38, 831-848.	0.7	25
48	Existence of an 16O-Rich Gaseous Reservoir in the Solar Nebula. <i>Science</i> , 2002, 295, 1051-1054.	6.0	105
49	Origin of supposedly biogenic magnetite in the Martian meteorite Allan Hills 84001. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 6556-6561.	3.3	91
50	Meteorite Evidence for the Accretion and Collisional Evolution of Asteroids. , 2002, , 697-710.		20
51	Oxygen isotopic compositions and origins of calcium&aluminum&rich inclusions and chondrules. <i>Meteoritics and Planetary Science</i> , 2001, 36, 1307-1319.	0.7	26
52	Formation of mesosiderites by fragmentation and reaccretion of a large differentiated asteroid. <i>Meteoritics and Planetary Science</i> , 2001, 36, 869-881.	0.7	82
53	Formation of feldspathic and metallic melts by shock in enstatite chondrite Reckling Peak A80259. <i>Meteoritics and Planetary Science</i> , 2000, 35, 319-329.	0.7	41
54	Origin of a unique impact&melt rock&the L&chondrite Ramsdorf. <i>Meteoritics and Planetary Science</i> , 1999, 34, 49-59.	0.7	29

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55	Mineralogy, petrography, bulk chemical, iodine-xenon, and oxygen-isotopic compositions of dark inclusions in the reduced CV3 chondrite Efremovka. <i>Meteoritics and Planetary Science</i> , 1999, 34, 67-89.	0.7	60
56	Comment on "Petrologic evidence for low-temperature, possibly flood-evaporitic origin of carbonates in the ALH84001 meteorite" by Paul H. Warren. <i>Journal of Geophysical Research</i> , 1999, 104, 24211-24215.	3.3	6
57	Origin of carbonate-magnetite-sulfide assemblages in Martian meteorite ALH84001. <i>Journal of Geophysical Research</i> , 1999, 104, 3803-3813.	3.3	38
58	Vibrational spectroscopic study of minerals in the Martian meteorite ALH 84001. <i>American Mineralogist</i> , 1999, 84, 1569-1576.	0.9	76
59	Secondary calcium-iron-rich minerals in the Bali-like and Allende-like oxidized CV3 chondrites and Allende dark inclusions. <i>Meteoritics and Planetary Science</i> , 1998, 33, 623-645.	0.7	95
60	Carbonates in fractures of Martian meteorite Allan Hills 84001: Petrologic evidence for impact origin. <i>Meteoritics and Planetary Science</i> , 1998, 33, 709-719.	0.7	50
61	Progressive alteration in CV3 chondrites: More evidence for asteroidal alteration. <i>Meteoritics and Planetary Science</i> , 1998, 33, 1065-1085.	0.7	272
62	Carbide-magnetite assemblages in type-3 ordinary chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 219-237.	1.6	133
63	Shock metamorphism of enstatite chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 847-858.	1.6	168
64	Origin of fayalitic olivine rims and lath-shaped matrix olivine in the CV3 chondrite Allende and its dark inclusions. <i>Meteoritics and Planetary Science</i> , 1997, 32, 31-49.	0.7	130
65	Constraints on the role of impact heating and melting in asteroids. <i>Meteoritics and Planetary Science</i> , 1997, 32, 349-363.	0.7	181
66	Petrological evidence for shock melting of carbonates in the martian meteorite ALH84001. <i>Nature</i> , 1997, 387, 377-379.	13.7	102
67	Core crystallization and silicate-metal mixing in the parent body of the IVA iron and stony-iron meteorites. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 1615-1631.	1.6	57
68	Thermal and shock history of mesosiderites and their large parent asteroid. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 2609-2619.	1.6	49
69	Thermal histories of IVA stony-iron and iron meteorites: Evidence for asteroid fragmentation and reaccrction. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 3103-3113.	1.6	48
70	Meteoritic, Asteroidal, and Theoretical Constraints on the 500 Ma Disruption of the Chondrite Parent Body. <i>Icarus</i> , 1996, 119, 182-191.	1.1	79
71	Mineralogical and chemical modification of components in CV3 chondrites: Nebular or asteroidal processing?. <i>Meteoritics</i> , 1995, 30, 748-775.	1.5	343
72	Electrical Discharge Heating of Chondrules in the Solar Nebula. <i>Icarus</i> , 1995, 115, 97-108.	1.1	19

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73	Classification, metamorphic history, and pre-metamorphic composition of chondrules. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 1203-1209.	1.6	28
74	Origin of ureilite meteorites and implications for planetary accretion. <i>Geophysical Research Letters</i> , 1993, 20, 415-418.	1.5	88
75	Chemical fractionations in Group IIIAB iron meteorites: Origin by dendritic crystallization of an asteroidal core. <i>Geochimica Et Cosmochimica Acta</i> , 1993, 57, 3457-3472.	1.6	65
76	Asteroid Differentiation: Pyroclastic Volcanism to Magma Oceans. <i>Meteoritics</i> , 1993, 28, 34-52.	1.5	96
77	Genesis of the IIIAB iron meteorites: Evidence from silicate-bearing inclusions. <i>Meteoritics</i> , 1993, 28, 552-560.	1.5	42
78	Asteroid core crystallization by inward dendritic growth. <i>Journal of Geophysical Research</i> , 1992, 97, 14727-14734.	3.3	60
79	Shock metamorphism of carbonaceous chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 1992, 56, 4281-4293.	1.6	238
80	Composition of chondrule silicates in LL3-5 chondrites and implications for their nebular history and parent body metamorphism. <i>Geochimica Et Cosmochimica Acta</i> , 1991, 55, 601-619.	1.6	86
81	Disentangling nebular and asteroidal features of C3 carbonaceous chondrite meteorites. <i>Geochimica Et Cosmochimica Acta</i> , 1990, 54, 2485-2502.	1.6	159
82	Chemical, isotopic and mineralogical evidence for the origin of matrix in ordinary chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 1989, 53, 2081-2093.	1.6	56
83	Planetary Compositions - Clues from Meteorites and Asteroids. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1989, 44, 924-934.	0.7	8
84	A new kind of primitive chondrite, Allan Hills 85085. <i>Earth and Planetary Science Letters</i> , 1988, 91, 1-18.	1.8	107
85	NAZARETH METEORITES: CLASSIFICATION AND NOMENCLATURE. <i>Meteoritics</i> , 1987, 22, 173-177.	1.5	1
86	Original structures, and fragmentation and reassembly histories of asteroids: Evidence from meteorites. <i>Icarus</i> , 1987, 69, 1-13.	1.1	156
87	Accretion, metamorphism, and brecciation of ordinary chondrites: Evidence from petrologic studies of meteorites from Roosevelt County, New Mexico. <i>Journal of Geophysical Research</i> , 1986, 91, E115.	3.3	52
88	Ubiquitous brecciation after metamorphism in equilibrated ordinary chondrites. <i>Journal of Geophysical Research</i> , 1985, 90, 137-148.	3.3	28
89	Petrology of types 4-6 carbonaceous chondrites. <i>Journal of Geophysical Research</i> , 1985, 90, C699.	3.3	18
90	Meteorology: Origins of stony-iron meteorites. <i>Nature</i> , 1984, 311, 708-708.	13.7	0

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91	Relict and other anomalous grains in chondrules: Implications for chondrule formation. <i>Journal of Geophysical Research</i> , 1984, 89, B559.	3.3	38
92	Composition and origin of enstatite in E chondrites. <i>Journal of Geophysical Research</i> , 1984, 89, B567.	3.3	18
93	Matrix material in type 3 chondrites? occurrence, heterogeneity and relationship with chondrules. <i>Geochimica Et Cosmochimica Acta</i> , 1984, 48, 1741-1757.	1.6	99
94	Meteoritics: Iron meteorites and the nature of asteroidal cores. <i>Nature</i> , 1983, 304, 216-217.	13.7	2
95	Chondrules and other components in C, O, and E chondrites: Similarities in their properties and origins. <i>Journal of Geophysical Research</i> , 1983, 88, B275.	3.3	107
96	Nature of the H chondrite parent body regolith: Evidence from the Dimmitt breccia. <i>Journal of Geophysical Research</i> , 1983, 88, A741.	3.3	51
97	A NEW LL3 CHONDRITE, ALLAN HILLS A79003, AND OBSERVATIONS ON MATRICES IN ORDINARY CHONDRITES. <i>Meteoritics</i> , 1982, 17, 65-75.	1.5	24
98	Origin of rapidly solidified metal-troilite grains in chondrites and iron meteorites. <i>Geochimica Et Cosmochimica Acta</i> , 1982, 46, 813-823.	1.6	128
99	Microchondrule-bearing clast in the Piancaldoli LL3 meteorite: a new kind of type 3 chondrite and its relevance to the history of chondrules. <i>Geochimica Et Cosmochimica Acta</i> , 1982, 46, 1763-1776.	1.6	92
100	Isotopic anomalies in meteorites. <i>Nature</i> , 1982, 297, 361-362.	13.7	1
101	New kind of type 3 chondrite with a graphite-magnetite matrix. <i>Earth and Planetary Science Letters</i> , 1981, 56, 19-31.	1.8	54
102	Polycrystalline taenite and metallographic cooling rates of chondrites: reply to comments of A. W. R. Bevan and H. J. Axon (1981). <i>Geochimica Et Cosmochimica Acta</i> , 1981, 45, 1959.	1.6	4
103	Metallic minerals, thermal histories and parent bodies of some xenolithic, ordinary chondrite meteorites. <i>Geochimica Et Cosmochimica Acta</i> , 1981, 45, 53-67.	1.6	124
104	Graphite-magnetite aggregates in ordinary chondritic meteorites. <i>Nature</i> , 1981, 291, 544-546.	13.7	67
105	Ordering of FeNi in clear taenite from meteorites. <i>Nature</i> , 1980, 287, 255-255.	13.7	5
106	Origin of anomalous iron meteorites. <i>Mineralogical Magazine</i> , 1979, 43, 415-421.	0.6	23
107	Identification of clear taenite in meteorites as ordered FeNi. <i>Nature</i> , 1979, 281, 360-362.	13.7	29
108	Primary fractionation of elements among iron meteorites. <i>Geochimica Et Cosmochimica Acta</i> , 1978, 42, 1447-1458.	1.6	19

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109	Iron meteorites with low Ga and Ge concentrations—composition, structure and genetic relationships. <i>Geochimica Et Cosmochimica Acta</i> , 1978, 42, 1243-1251.	1.6	26
110	Tungsten in iron meteorites. <i>Earth and Planetary Science Letters</i> , 1978, 39, 363-370.	1.8	17
111	FOUR NEW IRON METEORITE FINDS. <i>Meteoritics</i> , 1977, 12, 425-436.	1.5	8
112	Composition, mineralogy and origin of group IC iron meteorites. <i>Earth and Planetary Science Letters</i> , 1977, 37, 273-284.	1.8	27
113	Formation of olivine-metal textures in pallasite meteorites. <i>Geochimica Et Cosmochimica Acta</i> , 1977, 41, 693-710.	1.6	79
114	Pallasites—metal composition, classification and relationships with iron meteorites. <i>Geochimica Et Cosmochimica Acta</i> , 1977, 41, 349-360.	1.6	99
115	4. Parent Bodies of Iron Meteorites. <i>International Astronomical Union Colloquium</i> , 1977, 39, 439-444.	0.1	2
116	Geochemical relationships between some pallasites and iron meteorites. <i>Mineralogical Magazine</i> , 1977, 41, 265-272.	0.6	66
117	Chemical classification of iron meteorites—VIII. Groups IC, IIE, IIIF and 97 other irons. <i>Geochimica Et Cosmochimica Acta</i> , 1976, 40, 103-115.	1.6	130
118	Classification and properties of iron meteorites. <i>Reviews of Geophysics</i> , 1975, 13, 527-546.	9.0	262
119	Structure and formation of the San Cristobal meteorite, other IB irons and group III CD. <i>Geochimica Et Cosmochimica Acta</i> , 1974, 38, 1379-1391.	1.6	42
120	The nature of dark-etching rims in meteoritic taenite. <i>Geochimica Et Cosmochimica Acta</i> , 1973, 37, 2283-2294.	1.6	48
121	The chemical classification of iron meteorites—VII. A reinvestigation of irons with Ge concentrations between 25 and 80 ppm. <i>Geochimica Et Cosmochimica Acta</i> , 1973, 37, 1957-1983.	1.6	125
122	New Carbide, (Fe,Ni) ₂₃ C ₆ , found in Iron Meteorites. <i>Nature: Physical Science</i> , 1971, 229, 61-62.	0.8	18
123	First Nitride (CrN) in Iron Meteorites. <i>Nature: Physical Science</i> , 1971, 233, 113-114.	0.8	31
124	Making Chondrules by Splashing Molten Planetesimals. , 0, , 361-374.		8