

Alan E Rubin

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184
papers

8,766
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54
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83
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202
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10,032
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
184	Progressive aqueous alteration of CM carbonaceous chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2007 , 71, 2361-2382	5.5	343
183	Ordinary chondrites: Bulk compositions, classification, lithophile-element fractionations and composition-petrographic type relationships. <i>Geochimica Et Cosmochimica Acta</i> , 1989 , 53, 2747-2767	5.5	273
182	Mineralogy of meteorite groups. <i>Meteoritics and Planetary Science</i> , 1997 , 32, 231-247	2.8	229
181	Kamacite and olivine in ordinary chondrites: Intergroup and intragroup relationships. <i>Geochimica Et Cosmochimica Acta</i> , 1990 , 54, 1217-1232	5.5	216
180	The compositional classification of chondrites: V. The Karoonda (CK) group of carbonaceous chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 1991 , 55, 881-892	5.5	188
179	The compositional classification of chondrites: VI. The CR carbonaceous chondrite group. <i>Geochimica Et Cosmochimica Acta</i> , 1994 , 58, 2873-2888	5.5	148
178	Shock metamorphism of enstatite chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 1997 , 61, 847-858	5.5	141
177	The oxygen isotopic composition of olivine and pyroxene from CI chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 1997 , 61, 835-845	5.5	140
176	A shock-metamorphic model for silicate darkening and compositionally variable plagioclase in CK and ordinary chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 1992 , 56, 1705-1714	5.5	140
175	Petrologic, geochemical and experimental constraints on models of chondrule formation. <i>Earth-Science Reviews</i> , 2000 , 50, 3-27	10.2	139
174	The compositional classification of chondrites: VII. The R chondrite group. <i>Geochimica Et Cosmochimica Acta</i> , 1996 , 60, 2243-2256	5.5	136
173	Original structures, and fragmentation and reassembly histories of asteroids: Evidence from meteorites. <i>Icarus</i> , 1987 , 69, 1-13	3.8	134
172	ALH85085: a unique volatile-poor carbonaceous chondrite with possible implications for nebular fractionation processes. <i>Earth and Planetary Science Letters</i> , 1988 , 91, 33-54	5.3	127
171	Oxygen isotopic compositions of enstatite chondrites and aubrites. <i>Journal of Geophysical Research</i> , 1984 , 89, C245		127
170	Chondrules, matrix and coarse-grained chondrule rims in the Allende meteorite: Origin, interrelationships and possible precursor components. <i>Geochimica Et Cosmochimica Acta</i> , 1987 , 51, 1923-1937	5.5	117
169	Postshock annealing and postannealing shock in equilibrated ordinary chondrites: implications for the thermal and shock histories of chondritic asteroids. <i>Geochimica Et Cosmochimica Acta</i> , 2004 , 68, 673-689	5.5	112
168	Coarse-grained chondrule rims in type 3 chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 1984 , 48, 1779-1789	5.5	112

167	Physical properties of chondrules in different chondrite groups: Implications for multiple melting events in dusty environments. <i>Geochimica Et Cosmochimica Acta</i> , 2010 , 74, 4807-4828	5.5	110
166	Impact melt products of chondritic material. <i>Reviews of Geophysics</i> , 1985 , 23, 277	23.1	104
165	Formation of metal and silicate globules in Gujba: a new Bencubbin-like meteorite fall. <i>Geochimica Et Cosmochimica Acta</i> , 2003 , 67, 3283-3298	5.5	100
164	Mineralogy and petrology of amoeboid olivine inclusions in CO3 chondrites: Relationship to parent-body aqueous alteration. <i>Meteoritics and Planetary Science</i> , 2002 , 37, 1781-1796	2.8	96
163	Non-nebular origin of dark mantles around chondrules and inclusions in CM chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2006 , 70, 1271-1290	5.5	95
162	Compound chondrules. <i>Geochimica Et Cosmochimica Acta</i> , 1995 , 59, 1847-1869	5.5	92
161	Chondrules in the Qingzhen type-3 enstatite chondrite: Possible precursor components and comparison to ordinary chondrite chondrules. <i>Geochimica Et Cosmochimica Acta</i> , 1985 , 49, 1781-1795	5.5	88
160	Progressive aqueous alteration of CR carbonaceous chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2014 , 139, 267-292	5.5	87
159	Abee and related EH chondrite impact-melt breccias. <i>Geochimica Et Cosmochimica Acta</i> , 1997 , 61, 425-435	5.5	79
158	Chromite-plagioclase assemblages as a new shock indicator; implications for the shock and thermal histories of ordinary chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2003 , 67, 2695-2709	5.5	79
157	Matrix material in type 3 chondrites? occurrence, heterogeneity and relationship with chondrules. <i>Geochimica Et Cosmochimica Acta</i> , 1984 , 48, 1741-1757	5.5	78
156	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	5.5	77
155	Metallic copper in ordinary chondrites. <i>Meteoritics</i> , 1994 , 29, 93-98		75
154	The Portales Valley meteorite breccia: evidence for impact-induced melting and metamorphism of an ordinary chondrite. <i>Geochimica Et Cosmochimica Acta</i> , 2001 , 65, 323-342	5.5	74
153	Size-frequency distributions of chondrules in CO3 chondrites. <i>Meteoritics</i> , 1989 , 24, 179-189		73
152	Collisional facilitation of aqueous alteration of CM and CV carbonaceous chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2012 , 90, 181-194	5.5	72
151	The Adhi Kot breccia and implications for the origin of chondrules and silica-rich clasts in enstatite chondrites. <i>Earth and Planetary Science Letters</i> , 1983 , 64, 201-212	5.3	72
150	Chondrules in the Murray CM2 meteorite and compositional differences between CM-CO and ordinary chondrite chondrules. <i>Geochimica Et Cosmochimica Acta</i> , 1986 , 50, 307-315	5.5	72

149	Carbonates in CM chondrites: Complex formational histories and comparison to carbonates in CI chondrites. <i>Meteoritics and Planetary Science</i> , 2010 , 45, 513-530	2.8	70
148	Mineralogy and petrology of the Abee enstatite chondrite breccia and its dark inclusions. <i>Earth and Planetary Science Letters</i> , 1983 , 62, 118-131	5.3	69
147	Compositions of large metal nodules in mesosiderites: Links to iron meteorite group IIIAB and the origin of mesosiderite subgroups. <i>Geochimica Et Cosmochimica Acta</i> , 1990 , 54, 3197-3208	5.5	67
146	Oxygen isotopes in chondrules and coarse-grained chondrule rims from the Allende meteorite. <i>Earth and Planetary Science Letters</i> , 1990 , 96, 247-255	5.3	67
145	The Blithfield meteorite and the origin of sulfide-rich, metal-poor clasts and inclusions in brecciated enstatite chondrites. <i>Earth and Planetary Science Letters</i> , 1984 , 67, 273-283	5.3	67
144	Size-frequency distributions of chondrules and chondrule fragments in LL3 chondrites: Implications for parent-body fragmentation of chondrules. <i>Meteoritics and Planetary Science</i> , 2002 , 37, 1361-1376	2.8	66
143	Evolutionary History of the Mesosiderite Asteroid: A Chronologic and Petrologic Synthesis. <i>Icarus</i> , 1993 , 101, 201-212	3.8	66
142	Ubiquitous low-FeO relict grains in type II chondrules and limited overgrowths on phenocrysts following the final melting event. <i>Geochimica Et Cosmochimica Acta</i> , 2003 , 67, 2239-2250	5.5	65
141	Meteoritic minerals and their origins. <i>Chemie Der Erde</i> , 2017 , 77, 325-385	4.3	62
140	Troilite in the chondrules of type-3 ordinary chondrites: implications for chondrule formation. <i>Geochimica Et Cosmochimica Acta</i> , 1999 , 63, 2281-2298	5.5	62
139	Paucity of sulfide in a large slab of Esquel: New perspectives on pallasite formation. <i>Meteoritics and Planetary Science</i> , 1998 , 33, 221-227	2.8	60
138	Petrogenesis of acapulcoites and lodranites: A shock-melting model. <i>Geochimica Et Cosmochimica Acta</i> , 2007 , 71, 2383-2401	5.5	59
137	Compositions and taxonomy of 15 unusual carbonaceous chondrites. <i>Meteoritics and Planetary Science</i> , 2010 , 45, 531-554	2.8	58
136	Composition of matrix in the CR chondrite LAP 02342. <i>Geochimica Et Cosmochimica Acta</i> , 2009 , 73, 1436-1460	5.5	57
135	THE COLONY METEORITE AND VARIATIONS IN CO ₃ CHONDRITE PROPERTIES. <i>Meteoritics</i> , 1985 , 20, 175-196		57
134	Pecora Escarpment 91002: A member of the new Rumuruti (R) chondrite group. <i>Meteoritics</i> , 1994 , 29, 255-264		56
133	The halite-bearing Zag and Monahans (1998) meteorite breccias: Shock metamorphism, thermal metamorphism and aqueous alteration on the H-chondrite parent body. <i>Meteoritics and Planetary Science</i> , 2002 , 37, 125-141	2.8	55
132	SIZE-FREQUENCY-DISTRIBUTIONS OF EH3 CHONDRULES. <i>Meteoritics</i> , 1987 , 22, 237-251		55

131	Classification of mafic clasts from mesosiderites: Implications for endogenous igneous processes. <i>Geochimica Et Cosmochimica Acta</i> , 1992 , 56, 827-840	5.5	54
130	Origin of metallic Fe-Ni in Renazzo and related chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 1992 , 56, 2521-2533	5.5	54
129	⁵³ Mn/ ⁵³ Cr systematics of carbonates in CM chondrites: Implications for the timing and duration of aqueous alteration. <i>Geochimica Et Cosmochimica Acta</i> , 2009 , 73, 7433-7442	5.5	52
128	Oxygen-isotopic compositions of relict and host grains in chondrules in the Yamato 81020 CO3.0 chondrite. <i>Geochimica Et Cosmochimica Acta</i> , 2004 , 68, 3599-3606	5.5	52
127	Shock, post-shock annealing, and post-annealing shock in ureilites. <i>Meteoritics and Planetary Science</i> , 2006 , 41, 125-133	2.8	51
126	Post-shock annealing of Miller Range 99301 (LL6): Implications for impact heating of ordinary chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2002 , 66, 3327-3337	5.5	51
125	The Ningqiang Meteorite: Classification and Petrology of an Anomalous CV Chondrite. <i>Meteoritics</i> , 1988 , 23, 13-23		51
124	Maskelynite in asteroidal, lunar and planetary basaltic meteorites: An indicator of shock pressure during impact ejection from their parent bodies. <i>Icarus</i> , 2015 , 257, 221-229	3.8	50
123	Correlated petrologic and geochemical characteristics of CO3 chondrites. <i>Meteoritics and Planetary Science</i> , 1998 , 33, 385-391	2.8	50
122	The Villalbeto de la Peña meteorite fall: I. Fireball energy, meteorite recovery, strewn field, and petrography. <i>Meteoritics and Planetary Science</i> , 2005 , 40, 795-804	2.8	50
121	Properties of the Guin ungrouped iron meteorite: the origin of Guin and of group-IIIE irons. <i>Earth and Planetary Science Letters</i> , 1986 , 76, 209-226	5.3	50
120	Graphite-magnetite aggregates in ordinary chondritic meteorites. <i>Nature</i> , 1981 , 291, 544-546	50.4	50
119	Fall, recovery, and characterization of the Novato L6 chondrite breccia. <i>Meteoritics and Planetary Science</i> , 2014 , 49, 1388-1425	2.8	49
118	Pyroxene-selective impact smelting in ureilites. <i>Geochimica Et Cosmochimica Acta</i> , 2010 , 74, 5109-5133	5.5	49
117	Carlisle Lakes and Allan Hills 85151: Members of a new chondrite grouplet. <i>Geochimica Et Cosmochimica Acta</i> , 1989 , 53, 3035-3044	5.5	48
116	Lewis Cliff 85332: A unique carbonaceous chondrite. <i>Meteoritics</i> , 1990 , 25, 215-225		48
115	Chondrules and matrix in the Ornans CO3 meteorite: Possible precursor components. <i>Geochimica Et Cosmochimica Acta</i> , 1988 , 52, 425-432	5.5	48
114	Formation of mesosiderites by low-velocity impacts as a natural consequence of planet formation. <i>Nature</i> , 1985 , 318, 168-170	50.4	48

113	Microchondrules in ordinary chondrites: Implications for chondrule formation. <i>Geochimica Et Cosmochimica Acta</i> , 1997 , 61, 463-473	5.5	47
112	Meteorite and meteoroid: New comprehensive definitions. <i>Meteoritics and Planetary Science</i> , 2010 , 45, 114	2.8	45
111	Oxygen isotopes in R-chondrite magnetite and olivine: links between R chondrites and ordinary chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2000 , 64, 3897-3911	5.5	45
110	Impact melting in the Cumberland Falls and Mayo Belwa aubrites. <i>Meteoritics and Planetary Science</i> , 2010 , 45, 265-275	2.8	44
109	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. <i>Geochimica Et Cosmochimica Acta</i> , 2006 , 70, 3149-3172	5.5	44
108	Composition and formation of metal nodules and veins in ordinary chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 1986 , 50, 1989-1995	5.5	44
107	New kind of type 3 chondrite with a graphite-magnetite matrix. <i>Earth and Planetary Science Letters</i> , 1981 , 56, 19-31	5.3	44
106	An American on Paris: Extent of aqueous alteration of a CM chondrite and the petrography of its refractory and amoeboid olivine inclusions. <i>Meteoritics and Planetary Science</i> , 2015 , 50, 1595-1612	2.8	43
105	Los Angeles: A tale of two stones. <i>Meteoritics and Planetary Science</i> , 2004 , 39, 137-156	2.8	43
104	Origin of the differences in refractory-lithophile-element abundances among chondrite groups. <i>Icarus</i> , 2011 , 213, 547-558	3.8	42
103	Mineralogy of meteorite groups: An update. <i>Meteoritics and Planetary Science</i> , 1997 , 32, 733-734	2.8	42
102	Nature of the H chondrite parent body regolith: Evidence from the Dimmitt breccia. <i>Journal of Geophysical Research</i> , 1983 , 88, A741		42
101	FRAGMENTAL BRECCIAS AND THE COLLISIONAL EVOLUTION OF ORDINARY CHONDRITE PARENT BODIES. <i>Meteoritics</i> , 1983 , 18, 179-196		42
100	Smyer H-chondrite impact-melt breccia and evidence for sulfur vaporization. <i>Geochimica Et Cosmochimica Acta</i> , 2002 , 66, 699-711	5.5	41
99	Reduction during metamorphism of four ordinary chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 1993 , 57, 1867-1878	5.5	41
98	Northwest Africa 5738: Multistage fluid-driven secondary alteration in an extraordinarily evolved eucrite. <i>Geochimica Et Cosmochimica Acta</i> , 2014 , 141, 199-227	5.5	40
97	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. <i>Geochimica Et Cosmochimica Acta</i> , 2005 , 69, 3831-3840	5.5	40
96	On the origin of shocked and unshocked CM clasts in H-chondrite regolith breccias. <i>Meteoritics and Planetary Science</i> , 2009 , 44, 701-724	2.8	39

95	Formation of Ureilites by Impact-Melting of Carbonaceous Chondritic Material. <i>Meteoritics</i> , 1988 , 23, 333-337		38
94	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. <i>Geochimica Et Cosmochimica Acta</i> , 2013 , 108, 45-62	5.5	37
93	The Hadley Rille enstatite chondrite and its agglutinate-like rim: Impact melting during accretion to the Moon. <i>Meteoritics and Planetary Science</i> , 1997 , 32, 135-141	2.8	36
92	A weathering index for CK and R chondrites. <i>Meteoritics and Planetary Science</i> , 2005 , 40, 1123-1130	2.8	36
91	Impact melt-rock clasts in the Hvittis Enstatite chondrite breccia: Implications for a genetic relationship between EL chondrites and aubrites. <i>Journal of Geophysical Research</i> , 1983 , 88, B293		36
90	Relationships among intrinsic properties of ordinary chondrites: Oxidation state, bulk chemistry, oxygen-isotopic composition, petrologic type, and chondrule size. <i>Geochimica Et Cosmochimica Acta</i> , 2005 , 69, 4907-4918	5.5	35
89	Fractionation of refractory siderophile elements in metal from the Rose City meteorite. <i>Meteoritics</i> , 1995 , 30, 412-417		35
88	Coolidge and Loongana 001: A new carbonaceous chondrite grouplet. <i>Meteoritics</i> , 1995 , 30, 20-27		35
87	SIZE-DISTRIBUTIONS OF CHONDRULE TYPES IN THE INMAN AND ALLAN HILLS A77011 L3 CHONDRITES. <i>Meteoritics</i> , 1984 , 19, 135-143		35
86	Shock effects in EH6 Enstatite chondrites and implications for collisional heating of the EH and EL parent asteroids. <i>Geochimica Et Cosmochimica Acta</i> , 2011 , 75, 3757-3780	5.5	34
85	Formation of large metal nodules in ordinary chondrites. <i>Journal of Geophysical Research</i> , 1999 , 104, 30799-30804		34
84	Metal in CR chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2010 , 74, 2212-2230	5.5	33
83	Clastic matrix in EH3 chondrites. <i>Meteoritics and Planetary Science</i> , 2009 , 44, 589-601	2.8	32
82	Siderophile-element anomalies in CK carbonaceous chondrites: Implications for parent-body aqueous alteration and terrestrial weathering of sulfides. <i>Geochimica Et Cosmochimica Acta</i> , 2006 , 70, 4019-4037	5.5	32
81	Northwest Africa 6693: A new type of FeO-rich, low- $\delta^{17}\text{O}$, poikilitic cumulate achondrite. <i>Geochimica Et Cosmochimica Acta</i> , 2013 , 107, 135-154	5.5	31
80	PHOSPHATE-SULFIDE ASSEMBLAGES AND Al/Ca RATIOS IN TYPE-3 CHONDRITES. <i>Meteoritics</i> , 1985 , 20, 479-489		30
79	Derivation of a heterogeneous lithic fragment in the Bovedy L-group chondrite from impact-melted porphyritic chondrules. <i>Geochimica Et Cosmochimica Acta</i> , 1981 , 45, 2213-2228	5.5	30
78	Impact features of enstatite-rich meteorites. <i>Chemie Der Erde</i> , 2015 , 75, 1-28	4.3	28

77	Non-spherical lobate chondrules in CO3.0 Y-81020: General implications for the formation of low-FeO porphyritic chondrules in CO chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2005 , 69, 211-220	5.5	28
76	Glass-rich chondrules in ordinary chondrites. <i>Meteoritics</i> , 1994 , 29, 697-707		28
75	R-chondrite bulk-chemical compositions and diverse oxides: Implications for parent-body processes. <i>Geochimica Et Cosmochimica Acta</i> , 2014 , 124, 131-151	5.5	27
74	Possible impact-induced refractory-lithophile fractionations in EL chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2009 , 73, 1523-1537	5.5	27
73	First occurrence of pyrophanite (MnTiO ₃) and baddeleyite (ZrO ₂) in an ordinary chondrite. <i>Meteoritics</i> , 1993 , 28, 232-239		27
72	Secondary melting events in Semarkona chondrules revealed by compositional zoning in low-Ca pyroxene. <i>Geochimica Et Cosmochimica Acta</i> , 2017 , 211, 256-279	5.5	26
71	Shock and annealing in the amphibole- and mica-bearing R chondrites. <i>Meteoritics and Planetary Science</i> , 2014 , 49, 1057-1075	2.8	26
70	Igneous graphite in enstatite chondrites. <i>Mineralogical Magazine</i> , 1997 , 61, 699-703	1.7	26
69	Petrography of refractory inclusions in CM2.6 QUE 97990 and the origin of melilite-free spinel inclusions in CM chondrites. <i>Meteoritics and Planetary Science</i> , 2007 , 42, 1711-1726	2.8	26
68	Aluminian low-Ca pyroxene in a Ca-Al-rich chondrule from the Semarkona meteorite. <i>American Mineralogist</i> , 2004 , 89, 867-872	2.9	26
67	Chondrules in the Sharps H3 chondrite: Evidence for intergroup compositional differences among ordinary chondrite chondrules. <i>Geochimica Et Cosmochimica Acta</i> , 1989 , 53, 187-195	5.5	26
66	First known EL5 chondrite—evidence for dual genetic sequence for enstatite chondrites. <i>Nature</i> , 1984 , 308, 257-259	50.4	26
65	Euhedral tetrataenite in the Jelica meteorite. <i>Mineralogical Magazine</i> , 1994 , 58, 215-221	1.7	25
64	Carbonaceous and noncarbonaceous iron meteorites: Differences in chemical, physical, and collective properties. <i>Meteoritics and Planetary Science</i> , 2018 , 53, 2357-2371	2.8	24
63	THE ATLANTA ENSTATITE CHONDRITE BRECCIA. <i>Meteoritics</i> , 1983 , 18, 113-121		24
62	An amoeboid olivine inclusion (AOI) in CK3 NWA 1559, comparison to AOIs in CV3 Allende, and the origin of AOIs in CK and CV chondrites. <i>Meteoritics and Planetary Science</i> , 2013 , 48, 432-444	2.8	23
61	Origin of Halogens and Nitrogen in Enstatite Chondrites. <i>Earth, Moon and Planets</i> , 2009 , 105, 41-53	0.6	23
60	Spade: An H chondrite impact-melt breccia that experienced post-shock annealing. <i>Meteoritics and Planetary Science</i> , 2003 , 38, 1507-1520	2.8	23

59	Variations in impact effects among IIIE iron meteorites. <i>Meteoritics and Planetary Science</i> , 2016 , 51, 1611-1631	2.8	22
58	Carbon-rich chondritic clast PV1 from the Plainview H-chondrite regolith breccia: Formation from H3 chondrite material by possible cometary impact. <i>Geochimica Et Cosmochimica Acta</i> , 2005 , 69, 3419-3430	2.8	22
57	Evidence in CO3.0 chondrules for a drift in the O isotopic composition of the solar nebula. <i>Meteoritics and Planetary Science</i> , 2004 , 39, 1591-1598	2.8	22
56	Equilibration temperatures of EL chondrites: A major downward revision in the ferrosilite contents of enstatite. <i>Meteoritics</i> , 1994 , 29, 658-662		22
55	Sinoite (Si ₂ N ₂ O); crystallization from EL chondrite impact melts. <i>American Mineralogist</i> , 1997 , 82, 1001-1006		22
54	Ancient porosity preserved in ordinary chondrites: Examining shock and compaction on young asteroids. <i>Meteoritics and Planetary Science</i> , 2014 , 49, 1214-1231	2.8	21
53	Multiple melting in a four-layered barred-olivine chondrule with compositionally heterogeneous glass from LL3.0 Semarkona. <i>Meteoritics and Planetary Science</i> , 2013 , 48, 445-456	2.8	21
52	What's up? Preservation of gravitational direction in the Larkman Nunatak 06299 LL impact melt breccia. <i>Meteoritics and Planetary Science</i> , 2011 , 46, 737-747	2.8	21
51	Explicating the behavior of Mn-bearing phases during shock melting and crystallization of the Abee EH-chondrite impact-melt breccia. <i>Meteoritics and Planetary Science</i> , 2008 , 43, 1481-1485	2.8	21
50	A new model for the origin of Type-B and Fluffy Type-A CAIs: Analogies to remelted compound chondrules. <i>Meteoritics and Planetary Science</i> , 2012 , 47, 1062-1074	2.8	20
49	Wassonite: A new titanium monosulfide mineral in the Yamato 691 enstatite chondrite. <i>American Mineralogist</i> , 2012 , 97, 807-815	2.9	20
48	Flattened chondrules in the LAP 04581 LL5 chondrite: Evidence for an oblique impact into LL3 material and subsequent collisional heating. <i>Meteoritics and Planetary Science</i> , 2011 , 46, 587-600	2.8	20
47	Magnetite-sulfide chondrules and nodules in CK carbonaceous chondrites: Implications for the timing of CK oxidation. <i>Meteoritics</i> , 1993 , 28, 130-135		20
46	Joegoldsteinite: A new sulfide mineral (MnCr ₂ S ₄) from the Social Circle IVA iron meteorite. <i>American Mineralogist</i> , 2016 , 101, 1217-1221	2.9	19
45	An olivine-microchondrule-bearing clast in the Krymka meteorite. <i>Meteoritics</i> , 1989 , 24, 191-192		18
44	Formation and destruction of magnetite in CO3 chondrites and other chondrite groups. <i>Chemie Der Erde</i> , 2019 , 79, 125528	4.3	17
43	NWA 10214: An LL3 chondrite breccia with an assortment of metamorphosed, shocked, and unique chondrite clasts. <i>Meteoritics and Planetary Science</i> , 2017 , 52, 372-390	2.8	16
42	Impact melting of the largest known enstatite meteorite: Al Haggounia 001, a fossil EL chondrite. <i>Meteoritics and Planetary Science</i> , 2016 , 51, 1576-1587	2.8	16

41	Shock and annealing in aubrites: Implications for parent-body history. <i>Meteoritics and Planetary Science</i> , 2015 , 50, 1217-1227	2.8	16
40	Shock effects in the Willamette ungrouped iron meteorite. <i>Meteoritics and Planetary Science</i> , 2015 , 50, 1984-1994	2.8	15
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