

# S S Russell

## List of Publications by Year in descending order

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129  
papers

5,895  
citations

53794

45  
h-index

85541

71  
g-index

132  
all docs

132  
docs citations

132  
times ranked

3056  
citing authors

#	ARTICLE	IF	CITATIONS
1	Samples returned from the asteroid Ryugu are similar to Ivuna-type carbonaceous meteorites. <i>Science</i> , 2023, 379, .	12.6	97
2	Abundance and importance of petrological type 1 chondritic material. <i>Meteoritics and Planetary Science</i> , 2022, 57, 277-301.	1.6	5
3	Martian moons exploration MMX: sample return mission to Phobos elucidating formation processes of habitable planets. <i>Earth, Planets and Space</i> , 2022, 74, .	2.5	51
4	Asteroids accretion, differentiation, and break-up in the Vesta source region: Evidence from cosmochemistry of mesosiderites. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 329, 135-151.	3.9	4
5	The fall of the Murchison meteorite. <i>Meteoritics and Planetary Science</i> , 2021, 56, 8-10.	1.6	1
6	Shape and porosity of refractory inclusions in CV3 chondrites: A micro- $\mu$ CT study. <i>Meteoritics and Planetary Science</i> , 2021, 56, 500-514.	1.6	4
7	Definition and use of functional analogues in planetary exploration. <i>Planetary and Space Science</i> , 2021, 197, 105162.	1.7	10
8	Analytical protocols for Phobos regolith samples returned by the Martian Moons eXploration (MMX) mission. <i>Earth, Planets and Space</i> , 2021, 73, 120.	2.5	8
9	The Fe/S ratio of pyrrhotite group sulfides in chondrites: An indicator of oxidation and implications for return samples from asteroids Ryugu and Bennu. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 303, 66-91.	3.9	24
10	A Spectral Investigation of Aqueously and Thermally Altered CM, CM $\alpha$ , and CY Chondrites Under Simulated Asteroid Conditions for Comparison With OSIRIS-REx and Hayabusa2 Observations. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006827.	3.6	15
11	Tracing the earliest stages of hydrothermal alteration on the CM chondrite parent body. <i>Meteoritics and Planetary Science</i> , 2021, 56, 1708-1728.	1.6	6
12	Linking mineralogy and spectroscopy of highly aqueously altered <sc>CM</sc> and <sc>CI</sc> carbonaceous chondrites in preparation for primitive asteroid sample return. <i>Meteoritics and Planetary Science</i> , 2020, 55, 77-101.	1.6	37
13	Petrology and oxygen isotopic compositions of calcium-aluminum-rich inclusions in primitive CO3.0 $\alpha$ 3.1 chondrites. <i>Meteoritics and Planetary Science</i> , 2020, 55, 911-935.	1.6	8
14	Primordial formation of major silicates in a protoplanetary disc with homogeneous <sup>26</sup> Al/ <sup>27</sup> Al. <i>Science Advances</i> , 2020, 6, eaay9626.	10.3	21
15	Constraints on the Distances and Timescales of Solid Migration in the Early Solar System from Meteorite Magnetism. <i>Astrophysical Journal</i> , 2020, 896, 103.	4.5	21
16	Flying too close to the Sun – The viability of perihelion-induced aqueous alteration on periodic comets. <i>Icarus</i> , 2020, 351, 113956.	2.5	9
17	One of the earliest refractory inclusions and its implications for solar system history. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 286, 214-226.	3.9	7
18	The alteration history of the Jbilet Winselwan CM carbonaceous chondrite: An analog for C $\alpha$ -type asteroid sample return. <i>Meteoritics and Planetary Science</i> , 2019, 54, 521-543.	1.6	35

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19	A microchondrule-bearing micrometeorite and comparison with microchondrules in CM chondrites. <i>Meteoritics and Planetary Science</i> , 2019, 54, 1303-1324.	1.6	6
20	The vanadium isotopic composition of lunar basalts. <i>Earth and Planetary Science Letters</i> , 2019, 511, 12-24.	4.4	12
21	Carbonaceous chondrite meteorites as a record of protoplanetary disk conditions. <i>Proceedings of the International Astronomical Union</i> , 2019, 15, 135-138.	0.0	0
22	Constraining the Evolutionary History of the Moon and the Inner Solar System: A Case for New Returned Lunar Samples. <i>Space Science Reviews</i> , 2019, 215, 1.	8.1	41
23	Intense aqueous alteration on C-type asteroids: Perspectives from giant fine-grained micrometeorites. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 245, 352-373.	3.9	20
24	Spectral characterization of analog samples in anticipation of OSIRIS-REx's arrival at Bennu: A blind test study. <i>Icarus</i> , 2019, 319, 701-723.	2.5	38
25	The atmospheric entry of fine-grained micrometeorites: The role of volatile gases in heating and fragmentation. <i>Meteoritics and Planetary Science</i> , 2019, 54, 503-520.	1.6	14
26	Chronology of formation of early solar system solids from bulk Mg isotope analyses of CV3 chondrules. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 227, 19-37.	3.9	7
27	Isotopic coherence of refractory inclusions from CV and CK meteorites: Evidence from multiple isotope systems. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 228, 62-80.	3.9	24
28	The oldest magnetic record in our solar system identified using nanometric imaging and numerical modeling. <i>Nature Communications</i> , 2018, 9, 1173.	12.8	23
29	The Formation of the Solar System: A Recipe for Worlds. <i>Elements</i> , 2018, 14, 113-118.	0.5	3
30	Investigating the history of volatiles in the solar system using synchrotron infrared micro-spectroscopy. <i>Infrared Physics and Technology</i> , 2018, 94, 244-249.	2.9	2
31	Type 1 aqueous alteration in <sc>CM</sc> carbonaceous chondrites: Implications for the evolution of water-rich asteroids. <i>Meteoritics and Planetary Science</i> , 2017, 52, 1197-1215.	1.6	62
32	The origin, history and role of water in the evolution of the inner Solar System. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20170108.	3.4	5
33	The thermal decomposition of fine-grained micrometeorites, observations from mid-IR spectroscopy. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 206, 112-136.	3.9	28
34	Long-lived magnetism on chondrite parent bodies. <i>Earth and Planetary Science Letters</i> , 2017, 475, 106-118.	4.4	18
35	Shock fabrics in fine-grained micrometeorites. <i>Meteoritics and Planetary Science</i> , 2017, 52, 2258-2274.	1.6	9
36	Relationship between CAIs and chondrules: A case study of a compound chondrule from the Allende (CV3) meteorite. <i>Geochemical Journal</i> , 2017, 51, 31-43.	1.0	3

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37	Preface: Evolution of the solar system: New advances in cosmochemistry and planetary chemistry. <i>Geochemical Journal</i> , 2017, 51, 1-2.	1.0	7
38	An asteroidal origin for water in the Moon. <i>Nature Communications</i> , 2016, 7, 11684.	12.8	68
39	Characterising the CI and CI-like carbonaceous chondrites using thermogravimetric analysis and infrared spectroscopy. <i>Earth, Planets and Space</i> , 2015, 67, .	2.5	62
40	Modal mineralogy of CI and CI-like chondrites by X-ray diffraction. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 165, 148-160.	3.9	115
41	Fe and O isotope composition of meteorite fusion crusts: Possible natural analogues to chondrule formation?. <i>Meteoritics and Planetary Science</i> , 2015, 50, 229-242.	1.6	17
42	An oxygen isotope study of Warköfer rims on type A CAIs in primitive carbonaceous chondrites. <i>Earth and Planetary Science Letters</i> , 2014, 401, 327-336.	4.4	41
43	Heterogeneity in lunar anorthosite meteorites: implications for the lunar magma ocean model. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20130241.	3.4	37
44	The origin of water in the primitive Moon as revealed by the lunar highlands samples. <i>Earth and Planetary Science Letters</i> , 2014, 390, 244-252.	4.4	118
45	The texture of a fine-grained calcium-aluminium-rich inclusion (CAI) in three dimensions and implications for early solar system condensation. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 116, 52-62.	3.9	10
46	Short duration thermal metamorphism in CR chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 122, 267-279.	3.9	39
47	NEUTRON-POOR NICKEL ISOTOPE ANOMALIES IN METEORITES. <i>Astrophysical Journal</i> , 2012, 758, 59.	4.5	83
48	The Chandrayaan-1 X-ray Spectrometer: First results. <i>Planetary and Space Science</i> , 2012, 60, 217-228.	1.7	28
49	Mineral magnetism of dusty olivine: A credible recorder of pre-accretionary remanence. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	34
50	Investigation of iron sulfide impact crater residues: A combined analysis by scanning and transmission electron microscopy. <i>Meteoritics and Planetary Science</i> , 2011, 46, 1007-1024.	1.6	22
51	The oxygen isotope composition, petrology and geochemistry of mare basalts: Evidence for large-scale compositional variation in the lunar mantle. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 6885-6899.	3.9	80
52	A nebula setting as the origin for bulk chondrule Fe isotope variations in CV chondrites. <i>Earth and Planetary Science Letters</i> , 2010, 296, 423-433.	4.4	47
53	Sulfur isotopic composition of Fe-Ni sulfide grains in CI and CM carbonaceous chondrites. <i>Meteoritics and Planetary Science</i> , 2010, 45, 885-898.	1.6	27
54	Lunar meteorite regolith breccias: An in situ study of impact melt composition using LA-ICP-MS with implications for the composition of the lunar crust. <i>Meteoritics and Planetary Science</i> , 2010, 45, 917-946.	1.6	59

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55	The scientific rationale for the C1XS X-ray spectrometer on India's Chandrayaan-1 mission to the moon. <i>Planetary and Space Science</i> , 2009, 57, 725-734.	1.7	30
56	X-ray fluorescence observations of the moon by SMART-1/D-CIXS and the first detection of Ti K $\alpha$ from the lunar surface. <i>Planetary and Space Science</i> , 2009, 57, 744-750.	1.7	46
57	The C1XS X-ray Spectrometer on Chandrayaan-1. <i>Planetary and Space Science</i> , 2009, 57, 717-724.	1.7	54
58	Origin and chronology of chondritic components: A review. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 4963-4997.	3.9	171
59	An Fe isotope study of ordinary chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 7399-7413.	3.9	28
60	In situ analysis of residues resulting from laboratory impacts into aluminum 1100 foil: Implications for Stardust crater analyses. <i>Meteoritics and Planetary Science</i> , 2009, 44, 1541-1559.	1.6	24
61	The petrology and geochemistry of Miller Range 05035: A new lunar gabbroic meteorite. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 3822-3844.	3.9	58
62	Modal abundances of CAIs: Implications for bulk chondrite element abundances and fractionations. <i>Meteoritics and Planetary Science</i> , 2008, 43, 1879-1894.	1.6	123
63	The Formation of the Solar System. <i>Journal of the Geological Society</i> , 2007, 164, 481-492.	2.1	3
64	Nitrogen and Carbon Isotopic Composition of the Sun Inferred from a High-Temperature Solar Nebular Condensate. <i>Astrophysical Journal</i> , 2007, 656, L33-L36.	4.5	111
65	Geo- and cosmochemistry of the twin elements yttrium and holmium. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 4592-4608.	3.9	88
66	Oxygen and magnesium isotopic compositions of amoeboid olivine aggregates from the Semarkona LL3.0 chondrite. <i>Meteoritics and Planetary Science</i> , 2007, 42, 1241-1247.	1.6	38
67	The D-CIXS X-ray spectrometer on the SMART-1 mission to the Moon—First results. <i>Planetary and Space Science</i> , 2007, 55, 494-502.	1.7	41
68	Precise and accurate determination of iron isotopes by multi-collector inductively coupled plasma mass spectrometry. <i>Special Publication - Royal Society of Chemistry</i> , 2007, , 351-361.	0.0	1
69	Fabric analysis of Allende matrix using EBSD. <i>Meteoritics and Planetary Science</i> , 2006, 41, 989-1001.	1.6	60
70	A petrological, mineralogical, and chemical analysis of the lunar mare basalt meteorite LaPaz Icefield 02205, 02224, and 02226. <i>Meteoritics and Planetary Science</i> , 2006, 41, 1003-1025.	1.6	50
71	Hf-W evidence for rapid differentiation of iron meteorite parent bodies. <i>Earth and Planetary Science Letters</i> , 2006, 241, 530-542.	4.4	161
72	Delving into Allende's dark secrets. <i>Astronomy and Geophysics</i> , 2006, 47, 6.37-6.38.	0.2	2

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73	Searching for signatures of life on Mars: an Fe-isotope perspective. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2006, 361, 1715-1720.	4.0	25
74	A history of the meteorite collection at the Natural History Museum, London. <i>Geological Society Special Publication</i> , 2006, 256, 153-162.	1.3	4
75	Supra-Canonical $^{26}\text{Al}/^{27}\text{Al}$ and the Residence Time of CAIs in the Solar Protoplanetary Disk. <i>Science</i> , 2005, 308, 223-227.	12.6	147
76	The Meteoritical Bulletin, No. 89, 2005 September. <i>Meteoritics and Planetary Science</i> , 2005, 40, A201-A263.	1.6	73
77	On early Solar System chronology: Implications of an heterogeneous spatial distribution of $^{26}\text{Al}$ and $^{53}\text{Mn}$ . <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 3129-3144.	3.9	40
78	Hydrogen isotopic composition of water from fossil micrometeorites in howardites. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 3431-3443.	3.9	33
79	Mineralogy and texture of Fe-Ni sulfides in CI1 chondrites: Clues to the extent of aqueous alteration on the CI1 parent body. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 2687-2700.	3.9	72
80	Nebular and asteroidal modification of the iron isotope composition of chondritic components. <i>Earth and Planetary Science Letters</i> , 2005, 239, 203-218.	4.4	31
81	A short timescale for changing oxygen fugacity in the solar nebula revealed by high-resolution $^{26}\text{Al}$ - $^{26}\text{Mg}$ dating of CAI rims. <i>Earth and Planetary Science Letters</i> , 2005, 238, 272-283.	4.4	66
82	High-precision Cu and Zn isotope analysis by plasma source mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2004, 19, 218.	3.0	127
83	High-precision Cu and Zn isotope analysis by plasma source mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2004, 19, 209.	3.0	107
84	Amoeboid olivine aggregates and related objects in carbonaceous chondrites: records of nebular and asteroid processes. <i>Chemie Der Erde</i> , 2004, 64, 185-239.	2.0	122
85	Laser ablation ICP-MS study of IIIAB irons and pallasites: constraints on the behaviour of highly siderophile elements during and after planetesimal core formation. <i>Chemical Geology</i> , 2004, 208, 5-28.	3.3	25
86	NWA 1152 and Sahara 00182: New primitive carbonaceous chondrites with affinities to the CR and CV groups. <i>Meteoritics and Planetary Science</i> , 2004, 39, 2009-2032.	1.6	8
87	The Meteoritical Bulletin, No. 88, 2004 July. <i>Meteoritics and Planetary Science</i> , 2004, 39, A215.	1.6	84
88	$^{136}\text{Xe}$ measurements of CAIs and chondrules from the CV3 chondrites Mokoia and Vigarano. <i>Meteoritics and Planetary Science</i> , 2004, 39, 1387-1403.	1.6	7
89	Scientific rationale for the D-CIXS X-ray spectrometer on board ESA's SMART-1 mission to the Moon. <i>Planetary and Space Science</i> , 2003, 51, 435-442.	1.7	22
90	The D-CIXS X-ray mapping spectrometer on SMART-1. <i>Planetary and Space Science</i> , 2003, 51, 427-433.	1.7	60

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91	Down to Earth: Sara Russell. <i>Nature</i> , 2003, 422, 23-23.	27.8	0
92	The Meteoritical Bulletin, No. 87, 2003 July. <i>Meteoritics and Planetary Science</i> , 2003, 38, A189.	1.6	88
93	The Meteoritical Bulletin, No. 86, 2002 July. <i>Meteoritics and Planetary Science</i> , 2002, 37, A157.	1.6	69
94	The D-CIXS X-ray spectrometer, and its capabilities for lunar science. <i>Advances in Space Research</i> , 2002, 30, 1901-1907.	2.6	8
95	A New Astrophysical Setting for Chondrule Formation. <i>Science</i> , 2001, 291, 1776-1779.	12.6	84
96	Exposure age, terrestrial age and pre-atmospheric radius of the Chinguetti mesosiderite: Not part of a much larger mass. <i>Meteoritics and Planetary Science</i> , 2001, 36, 939-946.	1.6	10
97	Aluminum-26 in calcium-aluminum-rich inclusions and chondrules from unequilibrated ordinary chondrites. <i>Meteoritics and Planetary Science</i> , 2001, 36, 975-997.	1.6	150
98	Refractory calcium-aluminum-rich inclusions and aluminum-diopside-rich chondrules in the metal-rich chondrites Hammadah al Hamra 237 and Queen Alexandra Range 94411. <i>Meteoritics and Planetary Science</i> , 2001, 36, 1189-1216.	1.6	81
99	Chemical and isotopic characteristics of the Didwana-Rajod (H5) chondrite. <i>Meteoritics and Planetary Science</i> , 2001, 36, 1249-1256.	1.6	9
100	16 O-rich melilite in CO3.0 chondrites: possible formation of common, 16 O-poor melilite by aqueous alteration. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 4539-4549.	3.9	75
101	Theories of planetary formation: constraints from the study of meteorites. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2001, 359, 2077-2093.	3.4	19
102	Origin of short-lived radionuclides. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2001, 359, 1991-2004.	3.4	33
103	Rock blasts in from the past. <i>Physics World</i> , 2000, 13, 25-26.	0.0	0
104	16 O enrichments in aluminum-rich chondrules from ordinary chondrites. <i>Earth and Planetary Science Letters</i> , 2000, 184, 57-74.	4.4	65
105	Refractory inclusions from the ungrouped carbonaceous chondrites MacAlpine Hills 87300 and 88107. <i>Meteoritics and Planetary Science</i> , 2000, 35, 1051-1066.	1.6	25
106	Sorting stardust. <i>Nature</i> , 1998, 395, 325-327.	27.8	2
107	The origin of chondritic macromolecular organic matter: A carbon and nitrogen isotope study. <i>Meteoritics and Planetary Science</i> , 1998, 33, 603-622.	1.6	174
108	The Burnwell, Kentucky, low iron oxide chondrite fall: Description, classification and origin. <i>Meteoritics and Planetary Science</i> , 1998, 33, 853-856.	1.6	26

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109	An Isotopic and Petrologic Study of Calcium-Aluminum-Rich Inclusions from CO <sub>3</sub> Meteorites. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 689-714.	3.9	153
110	Oxygen Isotopic Abundances in Calcium- Aluminum-Rich Inclusions from Ordinary Chondrites: Implications for Nebular Heterogeneity. <i>Science</i> , 1998, 280, 414-418.	12.6	116
111	Oxygen Reservoirs in the Early Solar Nebula Inferred from an Allende CAI. , 1998, 282, 452-455.		211
112	Presolar silicon carbide from the Indarch (EH4) meteorite: Comparison with silicon carbide populations from other meteorite classes. <i>Meteoritics and Planetary Science</i> , 1997, 32, 719-732.	1.6	31
113	Evidence for Widespread <sup>26</sup> Al in the Solar Nebula and Constraints for Nebula Time Scales. <i>Science</i> , 1996, 273, 757-762.	12.6	241
114	A carbon and nitrogen isotope study of diamond from primitive chondrites. <i>Meteoritics and Planetary Science</i> , 1996, 31, 343-355.	1.6	103
115	Nierite (Si <sub>3</sub> N <sub>4</sub> ), a new mineral from ordinary and enstatite chondrites. <i>Meteoritics</i> , 1995, 30, 387-398.	1.4	61
116	The isotopic composition and origins of silicon nitride from ordinary and enstatite chondrites. <i>Meteoritics</i> , 1995, 30, 399-404.	1.4	21
117	Carbon and Nitrogen Isotopes in Type II Supernova Diamonds. <i>Astrophysical Journal</i> , 1995, 447, 894.	4.5	68
118	Interstellar SiC grains in meteorites. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993, 89, 2297.	1.7	14
119	A New Type of Meteoritic Diamond in the Enstatite Chondrite Abee. <i>Science</i> , 1992, 256, 206-209.	12.6	62
120	Evidence for Multiple Sources of Diamond from Primitive Chondrites. <i>Science</i> , 1991, 254, 1188-1191.	12.6	82
121	Multiple Mechanisms of Transient Heating Events in the Protoplanetary Disk. , 0, , 11-56.		16
122	Composition of Chondrules and Matrix and Their Complementary Relationship in Chondrites. , 0, , 91-121.		17
123	Vaporâ€Melt Exchange. , 0, , 151-174.		10
124	Oxygen Isotope Characteristics of Chondrules from Recent Studies by Secondary Ion Mass Spectrometry. , 0, , 196-246.		17
125	<sup>26</sup> Alâ€ <sup>26</sup> Mg Systematics of Chondrules. , 0, , 247-275.		12
126	Tungsten Isotopes and the Origin of Chondrules and Chondrites. , 0, , 276-299.		7



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127	The Absolute Pb-Pb Isotope Ages of Chondrules. , 0, , 300-323.		5
128	Records of Magnetic Fields in the Chondrule Formation Environment. , 0, , 324-340.		3
129	Formation of Chondrules by Shock Waves. , 0, , 375-399.		8