

Stephen J Mojzsis

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7181245/publications.pdf>

Version: 2024-02-01

104
papers

7,611
citations

57758

44
h-index

53230

85
g-index

115
all docs

115
docs citations

115
times ranked

4731
citing authors

#	ARTICLE	IF	CITATIONS
1	Spontaneous Formation of Prebiotic Compartment Colonies on Hadean Earth and Pre- <i>Noachian</i> Mars**. <i>ChemSystemsChem</i> , 2022, 4, .	2.6	3
2	Eoarchean subduction-like magmatism recorded in 3750- <i>Ma mafic</i> "ultramafic rocks of the Ukaliq supracrustal belt (Q _u Å©bec). <i>Contributions To Mineralogy and Petrology</i> , 2022, 177, 1.	3.1	9
3	Evidence of a primordial isotopic gradient in the inner region of the solar protoplanetary disc. <i>Astronomy and Astrophysics</i> , 2022, 660, A36.	5.1	2
4	A Model Earth-sized Planet in the Habitable Zone of $\hat{\pm}$ Centauri A/B. <i>Astrophysical Journal</i> , 2022, 927, 134.	4.5	4
5	Effects of pebble accretion on the growth and composition of planetesimals in the inner Solar system. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 158-175.	4.4	6
6	Spontaneous Formation of Prebiotic Compartment Colonies on Hadean Earth and Pre- <i>Noachian</i> Mars. <i>ChemSystemsChem</i> , 2022, 4, .	2.6	0
7	Catalytic Synthesis of Polyribonucleic Acid on Prebiotic Rock Glasses. <i>Astrobiology</i> , 2022, 22, 629-636.	3.0	28
8	Tracing the Early Emergence of Microbial Sulfur Metabolisms. <i>Geomicrobiology Journal</i> , 2021, 38, 66-86.	2.0	9
9	Earth, Formation, and Early Evolution. , 2021, , 1-10.		0
10	Reply: The Isua (Greenland) "relict stromatolites" cannot be confidently interpreted as original sedimentary structures. <i>Earth and Planetary Science Letters</i> , 2021, 562, 116851.	4.4	0
11	A new estimate for the age of highly-siderophile element retention in the lunar mantle from late accretion. <i>Icarus</i> , 2021, 361, 114389.	2.5	5
12	Habitable potentials. <i>Nature Astronomy</i> , 2021, 5, 1083-1085.	10.1	5
13	Impact bombardment chronology of the terrestrial planets from 4.5- <i>Ga</i> to 3.5- <i>Ga</i> . <i>Icarus</i> , 2020, 338, 113514.	2.5	38
14	When Did Life Likely Emerge on Earth in an RNA- <i>First</i> Process?. <i>ChemSystemsChem</i> , 2020, 2, e1900035.	2.6	71
15	Geochemical and textural investigations of the Eoarchean Ukaliq supracrustals, Northern Q _u Å©bec (Canada). <i>Lithos</i> , 2020, 372-373, 105673.	1.4	4
16	Supply of phosphate to early Earth by photogeochemistry after meteoritic weathering. <i>Nature Geoscience</i> , 2020, 13, 344-348.	12.9	45
17	Reappraisal of purported ca. 3.7 Ga stromatolites from the Isua Supracrustal Belt (West Greenland) from detailed chemical and structural analysis. <i>Earth and Planetary Science Letters</i> , 2020, 545, 116409.	4.4	21
18	The partitioning of the inner and outer Solar System by a structured protoplanetary disk. <i>Nature Astronomy</i> , 2020, 4, 492-499.	10.1	73

#	ARTICLE	IF	CITATIONS
19	Biogenesis of the Neoproterozoic kremydilite manganese ores from Urucum (Brazil) – A new manganese ore type. <i>Precambrian Research</i> , 2020, 340, 105624.	2.7	19
20	Widespread poly-metamorphosed Archean granitoid gneisses and supracrustal enclaves of the southern Inukjuak Domain, QuĂ©bec (Canada). <i>Lithos</i> , 2020, 364-365, 105520.	1.4	8
21	Europium as a lodestar: diagnosis of radiogenic heat production in terrestrial exoplanets. <i>Astronomy and Astrophysics</i> , 2020, 644, A19.	5.1	5
22	Onset of Giant Planet Migration before 4480 Million Years Ago. <i>Astrophysical Journal</i> , 2019, 881, 44.	4.5	82
23	Mars in the aftermath of a colossal impact. <i>Icarus</i> , 2019, 333, 87-95.	2.5	8
24	The Assean Lake Complex. , 2019, , 703-722.		0
25	The Martian subsurface as a potential window into the origin of life. <i>Nature Geoscience</i> , 2018, 11, 21-26.	12.9	91
26	Thermal effects of late accretion to the crust and mantle of Mercury. <i>Earth and Planetary Science Letters</i> , 2018, 482, 536-544.	4.4	3
27	Late accretion to the Moon recorded in zircon (UĂ©Th)/He thermochronometry. <i>Earth and Planetary Science Letters</i> , 2018, 482, 222-235.	4.4	16
28	The curious case of Mars’s formation. <i>Astronomy and Astrophysics</i> , 2018, 617, A17.	5.1	17
29	Jupiter’s Influence on the Building Blocks of Mars and Earth. <i>Geophysical Research Letters</i> , 2018, 45, 5908-5917.	4.0	27
30	Thermodynamics, Disequilibrium, Evolution: Far-From-Equilibrium Geological and Chemical Considerations for Origin-Of-Life Research. <i>Origins of Life and Evolution of Biospheres</i> , 2017, 47, 39-56.	1.9	54
31	Evaluating an impact origin for Mercury’s high-magnesium region. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 614-632.	3.6	19
32	The Great Mars Climate Paradox Redux: REPLY. <i>Geology</i> , 2017, 45, e410-e410.	4.4	1
33	The cool and distant formation of Mars. <i>Earth and Planetary Science Letters</i> , 2017, 468, 85-93.	4.4	37
34	A colossal impact enriched Mars’ mantle with noble metals. <i>Geophysical Research Letters</i> , 2017, 44, 5978-5985.	4.0	26
35	The terrestrial late veneer from core disruption of a lunar-sized impactor. <i>Earth and Planetary Science Letters</i> , 2017, 480, 25-32.	4.4	95
36	Sluggish Hadean geodynamics: Evidence from coupled 146,147 SmĂ© 142,143 Nd systematics in Eoarchean supracrustal rocks of the Inukjuak domain (QuĂ©bec). <i>Earth and Planetary Science Letters</i> , 2017, 457, 23-37.	4.4	43

#	ARTICLE	IF	CITATIONS
37	ANALYSIS OF TERRESTRIAL PLANET FORMATION BY THE GRAND TACK MODEL: SYSTEM ARCHITECTURE AND TACK LOCATION. <i>Astrophysical Journal</i> , 2016, 821, 75.	4.5	73
38	Thermal effects of impact bombardments on Noachian Mars. <i>Earth and Planetary Science Letters</i> , 2016, 442, 108-120.	4.4	28
39	Late veneer and late accretion to the terrestrial planets. <i>Earth and Planetary Science Letters</i> , 2016, 455, 85-93.	4.4	57
40	Chemical and textural overprinting of ancient stromatolites: Timing, processes, and implications for their use as paleoenvironmental proxies. <i>Precambrian Research</i> , 2016, 278, 145-160.	2.7	31
41	Highly siderophile element abundances in Eoarchean komatiite and basalt protoliths. <i>Contributions To Mineralogy and Petrology</i> , 2016, 171, 1.	3.1	9
42	Correlated chemostratigraphy of Mn-carbonate microbialites (ÁšrkÅt, Hungary). <i>Gondwana Research</i> , 2016, 29, 278-289.	6.0	22
43	Tungsten isotope composition of the Acasta Gneiss Complex. <i>Earth and Planetary Science Letters</i> , 2015, 419, 168-177.	4.4	80
44	Micrometer-scale Uâ€Pb age domains in eucrite zircons, impact re-setting, and the thermal history of the HED parent body. <i>Icarus</i> , 2015, 245, 367-378.	2.5	32
45	A protracted timeline for lunar bombardment from mineral chemistry, Ti thermometry and Uâ€Pb geochronology of Apollo 14 melt breccia zircons. <i>Contributions To Mineralogy and Petrology</i> , 2015, 169, 1.	3.1	61
46	<i>Earth, Formation and Early Evolution.</i> , 2015, , 689-698.		0
47	Cobalt and marine redox evolution. <i>Earth and Planetary Science Letters</i> , 2014, 390, 253-263.	4.4	95
48	Luâ€Hf isotope systematics of the Hadeanâ€Eoarchean Acasta Gneiss Complex (Northwest Territories,) Tj ETQq0,0,0 rgBT /Qverlock 1	3.9	41
49	Component geochronology in the polyphase ca. 3920 Ma Acasta Gneiss. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 133, 68-96.	3.9	75
50	A radiogenic heating evolution model for cosmochemically Earth-like exoplanets. <i>Icarus</i> , 2014, 243, 274-286.	2.5	63
51	Combined ^{147,146} Smâ€ ^{143,142} Nd constraints on the longevity and residence time of early terrestrial crust. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 2329-2345.	2.5	58
52	<i>Earth, Formation and Early Evolution.</i> , 2014, , 1-11.		0
53	Geochemistry of pyrite from diamictites of the Boolgeeda Iron Formation, Western Australia with implications for the GOE and Paleoproterozoic ice ages. <i>Chemical Geology</i> , 2013, 362, 131-142.	3.3	19
54	The impact environment of the Hadean Earth. <i>Chemie Der Erde</i> , 2013, 73, 227-248.	2.0	60

#	ARTICLE	IF	CITATIONS
55	Reduced, reused and recycled: Detrital zircons define a maximum age for the Eoarchean (ca. 3750–3780) Tj ETQq1 1 0.784314 rgBT / Overlock 10 Tf 50 283-293.	4.4	60
56	Chemical sedimentary protoliths in the >3.75Ga Nuvvuagittuq Supracrustal Belt (QuÃ©bec, Canada). Gondwana Research, 2013, 23, 574-594.	6.0	26
57	Inherited 142Nd anomalies in Eoarchean protoliths. Earth and Planetary Science Letters, 2013, 361, 50-57.	4.4	91
58	A legacy of Hadean silicate differentiation inferred from Hf isotopes in Eoarchean rocks of the Nuvvuagittuq supracrustal belt (QuÃ©bec, Canada). Earth and Planetary Science Letters, 2013, 362, 171-181.	4.4	43
59	A search for thermal excursions from ancient extraterrestrial impacts using Hadean zircon Ti-U-Th-Pb depth profiles. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 13486-13492.	7.1	40
60	The composition of Earth's oldest iron formations: The Nuvvuagittuq Supracrustal Belt (QuÃ©bec,) Tj ETQq0 0 0 rgBT / Overlock 10 Tf 50 4.4	4.4	99
61	Hafnium isotope evidence from Archean granitic rocks for deep-mantle origin of continental crust. Earth and Planetary Science Letters, 2012, 337-338, 211-223.	4.4	169
62	Geology, age and field relations of Hadean zircon-bearing supracrustal rocks from Quad Creek, eastern Beartooth Mountains (Montana and Wyoming, USA). Chemical Geology, 2012, 312-313, 47-57.	3.3	20
63	Aerobic bacterial pyrite oxidation and acid rock drainage during the Great Oxidation Event. Nature, 2011, 478, 369-373.	27.8	299
64	Abodes for life in carbonaceous asteroids?. Icarus, 2011, 213, 273-279.	2.5	29
65	Leftover lithosphere. Nature Geoscience, 2010, 3, 148-149.	12.9	5
66	Ancient graphite in the Eoarchean quartzÃ©pyroxene rocks from Akilia in southern West Greenland I: Petrographic and spectroscopic characterization. Geochimica Et Cosmochimica Acta, 2010, 74, 5862-5883.	3.9	55
67	Microbial habitability of the Hadean Earth during the late heavy bombardment. Nature, 2009, 459, 419-422.	27.8	247
68	Metamorphic zircon, trace elements and Neoproterozoic metamorphism in the ca. 3.75Ga Nuvvuagittuq supracrustal belt, QuÃ©bec (Canada). Chemical Geology, 2009, 261, 99-114.	3.3	49
69	Application of precise 142Nd/144Nd analysis of small samples to inclusions in diamonds (Finsch, South) Tj ETQq1 1 0.784314 rgBT / Overlock 10 Tf 50 3.3	3.3	25
70	Chapter 7.5 Sulphur on the Early Earth. Neoproterozoic-Cambrian Tectonics, Global Change and Evolution: A Focus on South Western Gondwana, 2007, 15, 923-970.	0.2	17
71	Pre-3750Ma supracrustal rocks from the Nuvvuagittuq supracrustal belt, northern QuÃ©bec. Earth and Planetary Science Letters, 2007, 255, 9-21.	4.4	102
72	Identification of chemical sedimentary protoliths using iron isotopes in the >3750Ma Nuvvuagittuq supracrustal belt, Canada. Earth and Planetary Science Letters, 2007, 254, 358-376.	4.4	112

#	ARTICLE	IF	CITATIONS
73	Multiple sulfur isotopes from Paleoproterozoic Huronian interglacial sediments and the rise of atmospheric oxygen. <i>Earth and Planetary Science Letters</i> , 2007, 255, 188-212.	4.4	127
74	Pu-238, U-238, U-235, Pb chronology and isotope systematics of ancient zircons from Western Australia. <i>Earth and Planetary Science Letters</i> , 2007, 261, 491-499.	4.4	46
75	Thermal events documented in Hadean zircons by ion microprobe depth profiles. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 4044-4065.	3.9	64
76	Constraints on Hadean zircon protoliths from oxygen isotopes, Ti-thermometry, and rare earth elements. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, n/a-n/a.	2.5	160
77	Chemical and isotopic evidence for widespread Eoarchean metasedimentary enclaves in southern West Greenland. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 4229-4257.	3.9	51
78	Mass-independent fractionation of sulfur isotopes in sulfides from the pre-3770 Ma Isua Supracrustal Belt, West Greenland. <i>Geobiology</i> , 2006, 4, 227-238.	2.4	30
79	Response to Comment on "Heterogeneous Hadean Hafnium: Evidence of Continental Crust at 4.4 to 4.5 Ga". <i>Science</i> , 2006, 312, 1139b-1139b.	12.6	13
80	Geology, Age and Origin of Supracrustal Rocks at Akilia, West Greenland. <i>Numerische Mathematik</i> , 2006, 306, 303-366.	1.4	81
81	Composition and Structure of Microbial Communities from Stromatolites of Hamelin Pool in Shark Bay, Western Australia. <i>Applied and Environmental Microbiology</i> , 2005, 71, 4822-4832.	3.1	203
82	Multiple sulfur isotopes of sulfides from sediments in the aftermath of Paleoproterozoic glaciations. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 5033-5060.	3.9	76
83	Nitrogen isotopic composition of ammoniated phyllosilicates: case studies from Precambrian metamorphosed sedimentary rocks. <i>Chemical Geology</i> , 2005, 216, 37-58.	3.3	86
84	Heterogeneous Hadean Hafnium: Evidence of Continental Crust at 4.4 to 4.5 Ga. <i>Science</i> , 2005, 310, 1947-1950.	12.6	476
85	Extinct ²⁴⁴ Pu in Ancient Zircons. <i>Science</i> , 2004, 306, 89-91.	12.6	57
86	The first billion years: new insights from geochemistry. <i>Precambrian Research</i> , 2004, 135, 245-250.	2.7	2
87	Probing early atmospheres. <i>Nature</i> , 2003, 425, 249-250.	27.8	3
88	Mass-independent isotope effects in Archean (2.5 to 3.8 Ga) sedimentary sulfides determined by ion microprobe analysis. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 1635-1658.	3.9	190
89	Ion Microprobe U-238/Pb Age Determinations on Zircon from the Late Archean Granulite Facies Transition Zone of Southern India. <i>Journal of Geology</i> , 2003, 111, 407-425.	1.4	62
90	Origin and Significance of Archean Quartzose Rocks at Akilia, Greenland. <i>Science</i> , 2002, 298, 917a-917.	12.6	41

#	ARTICLE	IF	CITATIONS
91	Establishment of a 3.83-Ga magmatic age for the Akilia tonalite (southern West Greenland). <i>Earth and Planetary Science Letters</i> , 2002, 202, 563-576.	4.4	143
92	Extraterrestrial iridium, sediment accumulation and the habitability of the early Earth's surface. <i>Journal of Geophysical Research</i> , 2001, 106, 3219-3236.	3.3	60
93	Oxygen-isotope evidence from ancient zircons for liquid water at the Earth's surface 4,300±Myr ago. <i>Nature</i> , 2001, 409, 178-181.	27.8	747
94	Accretion to Earth and Moon ~4.35 Ga. , 2001, , 423-446.		3
95	Sulfur isotopic compositions of individual sulfides in Martian meteorites ALH84001 and Nakhla: implications for crustal-regolith exchange on Mars. <i>Earth and Planetary Science Letters</i> , 2000, 184, 23-35.	4.4	74
96	Heavy Bombardment of the Earth at ~3.85 Ga. , 2000, , 475-492.		49
97	Origin of life from apatite dating?. <i>Nature</i> , 1999, 400, 127-128.	27.8	27
98	Phosphates and carbon on Mars: Exobiological implications and sample return considerations. <i>Journal of Geophysical Research</i> , 1998, 103, 28495-28511.	3.3	29
99	<title>Early Mars and early Earth: paleoenvironments for the emergence of life</title>. , 1997, , .		3
100	Recognition of ~3850 Ma water-lain sediments in West Greenland and their significance for the early Archaean Earth. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 2475-2484.	3.9	186
101	Entropy and Charge in Molecular Evolution—the Case of Phosphate. <i>Journal of Theoretical Biology</i> , 1997, 187, 503-522.	1.7	78
102	Extraterrestrial life: Life on Mars — then and now. <i>Current Biology</i> , 1996, 6, 1213-1216.	3.9	20
103	Evidence for life on Earth before 3,800 million years ago. <i>Nature</i> , 1996, 384, 55-59.	27.8	1,188
104	Detailed chemical compositions of planet-hosting stars: II. Exploration of the interiors of terrestrial-type exoplanets. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	4