

# Arya Udry

## List of Publications by Citations

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35  
papers

391  
citations

12  
h-index

19  
g-index

49  
ext. papers

530  
ext. citations

4.4  
avg, IF

3.99  
L-index

#	Paper	IF	Citations
35	Petrology and trace element geochemistry of Tissint, the newest shergottite fall. <i>Meteoritics and Planetary Science</i> , <b>2015</b> , 50, 63-85	2.8	38
34	1.34 billion-year-old magmatism on Mars evaluated from the co-genetic nakhlite and chassignite meteorites. <i>Geochimica Et Cosmochimica Acta</i> , <b>2018</b> , 238, 292-315	5.5	33
33	Paired nakhlites MIL 090030, 090032, 090136, and 03346: Insights into the Miller Range parent meteorite. <i>Meteoritics and Planetary Science</i> , <b>2012</b> , 47, 1575-1589	2.8	31
32	Petrogenesis of a vitrophyre in the martian meteorite breccia NWA 7034. <i>Geochimica Et Cosmochimica Acta</i> , <b>2014</b> , 141, 281-293	5.5	30
31	Shock-transformation of whitlockite to merrillite and the implications for meteoritic phosphate. <i>Nature Communications</i> , <b>2017</b> , 8, 14667	17.4	24
30	Formation of Evolved Rocks at Gale Crater by Crystal Fractionation and Implications for Mars Crustal Composition. <i>Journal of Geophysical Research E: Planets</i> , <b>2018</b> , 123, 1525-1540	4.1	23
29	Martian magmatism from plume metasomatized mantle. <i>Nature Communications</i> , <b>2018</b> , 9, 4799	17.4	21
28	What Martian Meteorites Reveal About the Interior and Surface of Mars. <i>Journal of Geophysical Research E: Planets</i> , <b>2020</b> , 125, e2020JE006523	4.1	20
27	Petrogenesis of the NWA 7320 enriched martian gabbroic shergottite: Insight into the martian crust. <i>Geochimica Et Cosmochimica Acta</i> , <b>2017</b> , 204, 1-18	5.5	18
26	Exploring fractionation models for Martian magmas. <i>Journal of Geophysical Research E: Planets</i> , <b>2014</b> , 119, 1-18	4.1	15
25	Shergottite Northwest Africa 6963: A Pyroxene-Cumulate Martian Gabbro. <i>Journal of Geophysical Research E: Planets</i> , <b>2018</b> , 123, 1823-1841	4.1	14
24	Trace elements in olivine and the petrogenesis of the intermediate, olivine-phyric shergottite NWA 10170. <i>Meteoritics and Planetary Science</i> , <b>2017</b> , 52, 391-409	2.8	13
23	Petrogenesis of basaltic shergottite Northwest Africa 8657: Implications for fO <sub>2</sub> correlations and element redistribution during shock melting in shergottites. <i>Meteoritics and Planetary Science</i> , <b>2018</b> , 53, 249-267	2.8	12
22	Petrology of the enriched poikilitic shergottite Northwest Africa 10169: Insight into the martian interior. <i>Geochimica Et Cosmochimica Acta</i> , <b>2019</b> , 266, 435-462	5.5	11
21	Constraining Ancient Magmatic Evolution on Mars Using Crystal Chemistry of Detrital Igneous Minerals in the Sedimentary Bradbury Group, Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , <b>2020</b> , 125, e2020JE006467	4.1	10
20	Reclassification of four aubrites as enstatite chondrite impact melts: Potential geochemical analogs for Mercury. <i>Meteoritics and Planetary Science</i> , <b>2019</b> , 54, 785-810	2.8	8
19	Preliminary Planning for Mars Sample Return (MSR) Curation Activities in a Sample Receiving Facility.. <i>Astrobiology</i> , <b>2021</b> ,	3.7	7

18	Mantle source to near-surface emplacement of enriched and intermediate poikilitic shergottites in Mars. <i>Geochimica Et Cosmochimica Acta</i> , <b>2019</b> , 266, 463-496	5.5	6
17	Post-landing major element quantification using SuperCam laser induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2022</b> , 188, 106347	3.1	5
16	Uniform oxygen fugacity of shergottite mantle sources and an oxidized martian lithosphere. <i>Earth and Planetary Science Letters</i> , <b>2021</b> , 564, 116876	5.3	5
15	Lithium isotopes and light lithophile element abundances in shergottites: Evidence for both magmatic degassing and subsolidus diffusion. <i>Meteoritics and Planetary Science</i> , <b>2016</b> , 51, 80-104	2.8	5
14	Craters of the Moon National Monument basalts as unshocked compositional and weathering analogs for martian rocks and meteorites. <i>American Mineralogist</i> , <b>2018</b> , 103, 502-516	2.9	5
13	Time-Sensitive Aspects of Mars Sample Return (MSR) Science.. <i>Astrobiology</i> , <b>2021</b> ,	3.7	5
12	Planning Implications Related to Sterilization-Sensitive Science Investigations Associated with Mars Sample Return (MSR).. <i>Astrobiology</i> , <b>2021</b> ,	3.7	5
11	Final Report of the MSR Science Planning Group 2 (MSPG2).. <i>Astrobiology</i> , <b>2021</b> ,	3.7	4
10	The Scientific Importance of Returning Airfall Dust as a Part of Mars Sample Return (MSR).. <i>Astrobiology</i> , <b>2021</b> ,	3.7	4
9	Science and Curation Considerations for the Design of a Mars Sample Return (MSR) Sample Receiving Facility.. <i>Astrobiology</i> , <b>2021</b> ,	3.7	4
8	Application of non-extensive statistical physics on Martian nakhlites: A first-order approach on the crystal size distribution of pyroxene using Tsallis entropy. <i>Europhysics Letters</i> , <b>2014</b> , 108, 58002	1.6	3
7	Highly siderophile elements in shergottite sulfides and the sulfur content of the martian mantle. <i>Geochimica Et Cosmochimica Acta</i> , <b>2021</b> , 293, 379-398	5.5	3
6	Rationale and Proposed Design for a Mars Sample Return (MSR) Science Program.. <i>Astrobiology</i> , <b>2021</b> ,	3.7	3
5	Effects of Organic Compounds on Dissolution of the Phosphate Minerals Chlorapatite, Whitlockite, Merrilite, and Fluorapatite: Implications for Interpreting Past Signatures of Organic Compounds in Rocks, Soils and Sediments. <i>Astrobiology</i> , <b>2018</b> , 18, 1543-1558	3.7	1
4	Melt inclusions in chassignite NWA 2737: A link between processes recorded in Martian meteorites and rocks at Gale crater. <i>Meteoritics and Planetary Science</i> , <b>2021</b> , 56, 1328-1349	2.8	1
3	Nickel-manganese variability in olivine and Al-in-olivine thermometry for olivine-phyric shergottites. <i>Meteoritics and Planetary Science</i> , <b>2021</b> , 56, 1597-1618	2.8	1
2	Caleta el Cobre 022 Martian meteorite: Increasing nakhlite diversity. <i>Meteoritics and Planetary Science</i> , <b>2020</b> , 55, 1539-1563	2.8	0
1	The role of assimilation and fractional crystallization in the evolution of the Mars crust. <i>Earth and Planetary Science Letters</i> , <b>2022</b> , 585, 117514	5.3	0

