Sonia M Tikoo-Schantz

List of Publications by Year
in descending order

29 papers	1,332 citations	430874 18 h-index	501196 28 g-index
29 all docs	29 docs citations	29 times ranked	1249 citing authors

#	Article	IF	Citations
1	The formation of peak rings in large impact craters. Science, 2016, 354, 878-882.	12.6	181
2	The lunar dynamo. Science, 2014, 346, 1246753.	12.6	178
3	Rapid recovery of life at ground zero of the end-Cretaceous mass extinction. Nature, 2018, 558, 288-291.	27.8	123
4	The first day of the Cenozoic. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19342-19351.	7.1	100
5	A Long-Lived Lunar Core Dynamo. Science, 2012, 335, 453-456.	12.6	94
6	A two-billion-year history for the lunar dynamo. Science Advances, 2017, 3, e1700207.	10.3	71
7	Gigantism in unique biogenic magnetite at the Paleoceneâ€“Eocene Thermal Maximum. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17648-17653.	7.1	69
8	Probing the hydrothermal system of the Chicxulub impact crater. Science Advances, 2020, 6, eaaz3053.	10.3	69
9	Decline of the lunar core dynamo. Earth and Planetary Science Letters, 2014, 404, 89-97.	4.4	62
10	A wet, heterogeneous lunar interior: Lower mantle and core dynamo evolution. Journal of Geophysical Research E: Planets, 2014, 119, 1061-1077.	3.6	54
11	Magnetic fidelity of lunar samples and implications for an ancient core dynamo. Earth and Planetary Science Letters, 2012, 337-338, 93-103.	4.4	41
12	Magnetism of a very young lunar glass. Journal of Geophysical Research E: Planets, 2015, 120, 1720-1735.	3.6	36
13	Lunar Swirl Morphology Constrains the Geometry, Magnetization, and Origins of Lunar Magnetic Anomalies. Journal of Geophysical Research E: Planets, 2018, 123, 2223-2241.	3.6	34
14	Preservation and detectability of shockâ€induced magnetization. Journal of Geophysical Research E: Planets, 2015, 120, 1461-1475.	3.6	31
15	The Case Against an Early Lunar Dynamo Powered by Core Convection. Geophysical Research Letters, 2018, 45, 98-107.	4.0	30
16	The fate of water within Earth and super-Earths and implications for plate tectonics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20150394.	3.4	27
17	Explosive interaction of impact melt and seawater following the Chicxulub impact event. Geology, 2020, 48, 108-112.	4.4	25
18	Probing space to understand Earth. Nature Reviews Earth & Environment, 2020, 1, 170-181.	29.7	24

#	Article	IF	Citations
19	Reply to Comment on â€œPervasive remagnetization of detrital zircon host rocks in the Jack Hills, Western Australia and implications for records of the early dynamoâ€. Earth and Planetary Science Letters, 2016, 450, 409-412.	4.4	13
20	The effects of 10 to >160 GPa shock on the magnetic properties of basalt and diabase. Geochemistry, Geophysics, Geosystems, 2016, 17, 4753-4771.	2.5	13
21	The Habitat of the Nascent Chicxulub Crater. AGU Advances, 2020, 1, e2020AV000208.	5.4	12
22	A South Poleâ€“Aitken impact origin of the lunar compositional asymmetry. Science Advances, 2022, 8, eabm8475.	10.3	11
23	Dynamos in the Inner Solar System. Annual Review of Earth and Planetary Sciences, 2022, 50, 99-122.	11.0	9
24	Constraining the Decline of the Lunar Dynamo Field at â‰ˆ3.1ÂGa Through Paleomagnetic Analyses of Apollo 12 Mare Basalts. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006715.	3.6	7
25	An episodic high-intensity lunar core dynamo. Nature Astronomy, 2022, 6, 325-330.	10.1	7
26	A matter of minutes: Breccia dike paleomagnetism provides evidence for rapid crater modification. Geology, 2016, 44, 723-726.	4.4	5
27	Ocean resurge-induced impact melt dynamics on the peak-ring of the Chicxulub impact structure, Mexico. International Journal of Earth Sciences, 2021, 110, 2619-2636.	1.8	5
28	Mars as a time machine to Precambrian Earth. Journal of the Geological Society, 2022, 179, .	2.1	1
29	Reevaluating Links Between Meteorite Impacts and Early Cenozoic Global Warming. Geophysical Research Letters, 2022, 49, .	4.0	0