

# Laurette Piani

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7590394/publications.pdf>

Version: 2024-02-01

27  
papers

1,070  
citations

430874

18  
h-index

552781

26  
g-index

27  
all docs

27  
docs citations

27  
times ranked

1047  
citing authors

#	ARTICLE	IF	CITATIONS
1	Earth's water may have been inherited from material similar to enstatite chondrite meteorites. <i>Science</i> , 2020, 369, 1110-1113.	12.6	164
2	Titan trace gaseous composition from CIRS at the end of the Cassini-Huygens prime mission. <i>Icarus</i> , 2010, 207, 461-476.	2.5	161
3	Samples returned from the asteroid Ryugu are similar to Ivuna-type carbonaceous meteorites. <i>Science</i> , 2023, 379, .	12.6	97
4	Origin and abundance of water in carbonaceous asteroids. <i>Earth and Planetary Science Letters</i> , 2018, 482, 23-32.	4.4	59
5	Oxygen isotopic diversity of chondrule precursors and the nebular origin of chondrules. <i>Earth and Planetary Science Letters</i> , 2018, 496, 132-141.	4.4	58
6	Hydrogen in chondrites: Influence of parent body alteration and atmospheric contamination on primordial components. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 281, 53-66.	3.9	58
7	Micron-scale D/H heterogeneity in chondrite matrices: A signature of the pristine solar system water?. <i>Earth and Planetary Science Letters</i> , 2015, 415, 154-164.	4.4	53
8	A dual origin for water in carbonaceous asteroids revealed by CM chondrites. <i>Nature Astronomy</i> , 2018, 2, 317-323.	10.1	43
9	Magmatic sulfides in the porphyritic chondrules of EH enstatite chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 195, 84-99.	3.9	37
10	Structure, composition, and location of organic matter in the enstatite chondrite Sahara 97096 (EH3). <i>Meteoritics and Planetary Science</i> , 2012, 47, 8-29.	1.6	33
11	Redox control on nitrogen isotope fractionation during planetary core formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14485-14494.	7.1	33
12	Liquid-like behavior of UV-irradiated interstellar ice analog at low temperatures. <i>Science Advances</i> , 2017, 3, eaao2538.	10.3	32
13	Thermal recalcitrance of the organic D-rich component of ordinary chondrites. <i>Earth and Planetary Science Letters</i> , 2016, 435, 36-44.	4.4	27
14	Chondrules in Enstatite Chondrites. , 0, , 175-195.		27
15	Origin of hydrogen isotopic variations in chondritic water and organics. <i>Earth and Planetary Science Letters</i> , 2021, 567, 117008.	4.4	26
16	Determination of the H Isotopic Composition of Individual Components in Fine-Scale Mixtures of Organic Matter and Phyllosilicates with the Nanoscale Secondary Ion Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 10199-10206.	6.5	21
17	Early scattering of the solar protoplanetary disk recorded in meteoritic chondrules. <i>Science Advances</i> , 2016, 2, e1601001.	10.3	21
18	Primordial water and dust of the Solar System: Insights from in situ oxygen measurements of CI chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 269, 451-464.	3.9	21

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19	Triple Oxygen Isotope Measurements by Multi-Collector Secondary Ion Mass Spectrometry. <i>Frontiers in Earth Science</i> , 2021, 8, .	1.8	21
20	Ultraviolet-photon fingerprints on chondritic large organic molecules. <i>Geochemical Journal</i> , 2019, 53, 21-32.	1.0	19
21	Evolution of Morphological and Physical Properties of Laboratory Interstellar Organic Residues with Ultraviolet Irradiation. <i>Astrophysical Journal</i> , 2017, 837, 35.	4.5	17
22	Hydrogen isotopic composition of water in CV-type carbonaceous chondrites. <i>Earth and Planetary Science Letters</i> , 2018, 504, 64-71.	4.4	14
23	The Piancaldoli meteorite: A forgotten primitive LL3.10 ordinary chondrite. <i>Meteoritics and Planetary Science</i> , 2020, 55, .	1.6	11
24	NORTHWEST AFRICA (NWA) 12563 and ungrouped C2 chondrites: Alteration styles and relationships to asteroids. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 311, 238-273.	3.9	7
25	Bulk chemical characteristics of soluble polar organic molecules formed through condensation of formaldehyde: Comparison with soluble organic molecules in Murchison meteorite. <i>Geochemical Journal</i> , 2019, 53, 41-51.	1.0	7
26	The tumultuous childhood of the Solar System. <i>Nature Astronomy</i> , 2019, 3, 889-890.	10.1	2
27	Preface: Evolution of molecules in space: From interstellar clouds to protoplanetary nebulae. <i>Geochemical Journal</i> , 2019, 53, 1-3.	1.0	1