Sandra Pizzarello

List of Publications by Year
in descending order

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50 papers	4,406 citations	147801 31 h-index	214800 47 g-index
52 all docs	52 docs citations	52 times ranked	2518 citing authors

#	Article	IF	Citations
1	The Aguas Zarcas (CM2) meteorite: New insights into early solar system organic chemistry. Meteoritics and Planetary Science, 2020, 55, 1525-1538.	1.6	9
2	The soluble organic compounds of the Mukundpura meteorite: A new CM chondrite fall. Planetary and Space Science, 2018, 164, 127-131.	1.7	11
3	Chiral molecules in space and their possible passage to planetary bodies recorded by meteorites. Earth and Planetary Science Letters, 2018, 496, 198-205.	4.4	7
4	Carbonaceous Chondrite Meteorites: the Chronicle of a Potential Evolutionary Path between Stars and Life. Origins of Life and Evolution of Biospheres, 2017, 47, 249-260.	1.9	46
5	Molecular Asymmetry in Prebiotic Chemistry: An Account from Meteorites. Life, 2016, 6, 18.	2.4	17
6	Enantiomeric excesses of chiral amines in ammonia-rich carbonaceous meteorites. Earth and Planetary Science Letters, 2016, 443, 176-184.	4.4	25
7	Identifying Chiral Molecules and their Enantiomeric Excesses in Extraterrestrial Samples: An Experimental Journey. Israel Journal of Chemistry, 2016, 56, 1027-1035.	2.3	11
8	THE PATH OF REDUCED NITROGEN TOWARD EARLY EARTH: THE COSMIC TRAIL AND ITS SOLAR SHORTCUTS. Astrophysical Journal, 2015, 814, 107.	4.5	9
9	Carbonaceous Chondrites, Organic Chemistry of. , 2015, , 374-376.		1
10	THE NITROGEN ISOTOPIC COMPOSITION OF METEORITIC HCN. Astrophysical Journal Letters, 2014, 796, L25.	8.3	8
11	Sutter's Mill dicarboxylic acids as possible tracers of parentâ€body alteration processes. Meteoritics and Planetary Science, 2014, 49, 2087-2094.	1.6	12
12	Carbonaceous Chondrites, Organic Chemistry of. , 2014, , 1-3.		0
13	Processing of meteoritic organic materials as a possible analog of early molecular evolution in planetary environments. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15614-15619.	7.1	34
14	Large enantiomeric excesses in primitive meteorites and the diverse effects of water in cosmochemical evolution. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11949-11954.	7.1	123
15	HYDROGEN CYANIDE IN THE MURCHISON METEORITE. Astrophysical Journal Letters, 2012, 754, L27.	8.3	22
16	Catalytic syntheses of amino acids and their significance for nebular and planetary chemistry. Meteoritics and Planetary Science, 2012, 47, 1291-1296.	1.6	24
17	Radar-Enabled Recovery of the Sutterâ€™s Mill Meteorite, a Carbonaceous Chondrite Regolith Breccia. Science, 2012, 338, 1583-1587.	12.6	191
18	Molecular asymmetry in extraterrestrial organic chemistry: An analytical perspective. Geochimica Et Cosmochimica Acta, 2011, 75, 645-656.	3.9	68

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19	The soluble organic compounds of the Bells meteorite: Not a unique or unusual composition. Geochimica Et Cosmochimica Acta, 2011, 75, 7585-7595.	3.9	41
20	Prebiotic chemical evolution: a meteoritic perspective. Rendiconti Lincei, 2011, 22, 153-163.	2.2	6
21	Abundant ammonia in primitive asteroids and the case for a possible exobiology. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4303-4306.	7.1	85
22	Stereoselective Syntheses of Pentose Sugars Under Realistic Prebiotic Conditions. Origins of Life and Evolution of Biospheres, 2010, 40, 3-10.	1.9	49
23	On the Emergence of Biochemical Homochirality: An Elusive Beginning. Origins of Life and Evolution of Biospheres, 2010, 40, 1-2.	1.9	9
24	The Organic Composition of Carbonaceous Meteorites: The Evolutionary Story Ahead of Biochemistry. Cold Spring Harbor Perspectives in Biology, 2010, 2, a002105-a002105.	5.5	215
25	A comparative study of the hydroxy acids from the Murchison, GRA 95229 and LAP 02342 meteorites. Geochimica Et Cosmochimica Acta, 2010, 74, 6206-6217.	3.9	60
26	Ab initio calculations of 6- and 7-carbon meteoritic amino acids and their diastereomers. Meteoritics and Planetary Science, 2010, 45, 1053-1060.	1.6	3
27	Nitrogen-containing compounds in two CR2 meteorites: 15N composition, molecular distribution and precursor molecules. Geochimica Et Cosmochimica Acta, 2009, 73, 2150-2162.	3.9	136
28	Molecular asymmetry in extraterrestrial chemistry: Insights from a pristine meteorite. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3700-3704.	7.1	139
29	The insoluble carbonaceous material of CM chondrites: A possible source of discrete organic compounds under hydrothermal conditions. Meteoritics and Planetary Science, 2007, 42, 37-48.	1.6	87
30	The Chemistry That Preceded Life's Origin: A Study Guide from Meteorites. Chemistry and Biodiversity, 2007, 4, 680-693.	2.1	58
31	Question 2: Why Astrobiology?. Origins of Life and Evolution of Biospheres, 2007, 37, 341-344.	1.9	10
32	The distribution of chiral asymmetry in meteorites: An investigation using asymmetric autocatalytic chiral sensors. Geochimica Et Cosmochimica Acta, 2006, 70, 5395-5402.	3.9	58
33	The Chemistry of Life's Origin:â€‰ A Carbonaceous Meteorite Perspective. Accounts of Chemical Research, 2006, 39, 231-237.	15.6	213
34	The peptide-catalyzed stereospecific synthesis of tetroses: A possible model for prebiotic molecular evolution. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 12713-12717.	7.1	114
35	Molecular and compound-specific isotopic characterization of monocarboxylic acids in carbonaceous meteorites. Geochimica Et Cosmochimica Acta, 2005, 69, 1073-1084.	3.9	132
36	The deuterium enrichment of individual amino acids in carbonaceous meteorites: A case for the presolar distribution of biomolecule precursors. Geochimica Et Cosmochimica Acta, 2005, 69, 599-605.	3.9	146

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37	Prebiotic Amino Acids as Asymmetric Catalysts. Science, 2004, 303, 1151-1151.	12.6	351
38	Chemical Evolution and Meteorites: An Update. Origins of Life and Evolution of Biospheres, 2004, 34, 25-34.	1.9	71
39	The carbon isotopic distribution of Murchison amino acids. Geochimica Et Cosmochimica Acta, 2004, 68, 4963-4969.	3.9	105
40	Nonracemic isovaline in the Murchison meteorite: chiral distribution and mineral association. Geochimica Et Cosmochimica Acta, 2003, 67, 1589-1595.	3.9	202
41	Molecular and isotopic analyses of Tagish Lake alkyl dicarboxylic acids. Meteoritics and Planetary Science, 2002, 37, 687-696.	1.6	49
42	Molecular and chiral analyses of some protein amino acid derivatives in the Murchison and Murray meteorites. Meteoritics and Planetary Science, 2001, 36, 897-909.	1.6	53
43	Enantiomeric Excesses in Meteoritic Amino Acids. Science, 1997, 275, 951-955.	12.6	818
44	Isotopic and molecular analyses of hydrocarbons and monocarboxylic acids of the Murchison meteorite. Geochimica Et Cosmochimica Acta, 1992, 56, 4045-4058.	3.9	163
45	Aliphatic hydrocarbons of the Murchison meteorite. Geochimica Et Cosmochimica Acta, 1990, 54, 2859-2868.	3.9	142
46	13C NMR spectroscopy of the insoluble carbon of carbonaceous chondrites. Geochimica Et Cosmochimica Acta, 1987, 51, 299-303.	3.9	105
47	Amino acids of the Murchison meteorite. III. Seven carbon acyclic primary Î±-amino alkanoic acids1. Geochimica Et Cosmochimica Acta, 1986, 50, 2419-2427.	3.9	106
48	Amino acids of the Murchison meteorite: II. Five carbon acyclic primary Î²-, Î³-, and Î´-amino alkanoic acids. Geochimica Et Cosmochimica Acta, 1985, 49, 2259-2265.	3.9	49
49	Gas chromatographic-mass spectral analysis of the five-carbon Î²-, Î³-, and Î´-amino alkanoic acids. Analytical Biochemistry, 1982, 124, 139-149.	2.4	12
50	Cosmochemical evolution and the origin of life: insights from meteorites. , 0, , 98-117.		1