

Sandra Pizzarello

List of Publications by Year in descending order

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Version: 2024-02-01

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	Enantiomeric Excesses in Meteoritic Amino Acids. <i>Science</i> , 1997, 275, 951-955.	12.6	818
2	Prebiotic Amino Acids as Asymmetric Catalysts. <i>Science</i> , 2004, 303, 1151-1151.	12.6	351
3	The Organic Composition of Carbonaceous Meteorites: The Evolutionary Story Ahead of Biochemistry. <i>Cold Spring Harbor Perspectives in Biology</i> , 2010, 2, a002105-a002105.	5.5	215
4	The Chemistry of Life's Origin: A Carbonaceous Meteorite Perspective. <i>Accounts of Chemical Research</i> , 2006, 39, 231-237.	15.6	213
5	Nonracemic isovaline in the Murchison meteorite: chiral distribution and mineral association. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 1589-1595.	3.9	202
6	Radar-Enabled Recovery of the Sutter's Mill Meteorite, a Carbonaceous Chondrite Regolith Breccia. <i>Science</i> , 2012, 338, 1583-1587.	12.6	191
7	Isotopic and molecular analyses of hydrocarbons and monocarboxylic acids of the Murchison meteorite. <i>Geochimica Et Cosmochimica Acta</i> , 1992, 56, 4045-4058.	3.9	163
8	The deuterium enrichment of individual amino acids in carbonaceous meteorites: A case for the presolar distribution of biomolecule precursors. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 599-605.	3.9	146
9	Aliphatic hydrocarbons of the Murchison meteorite. <i>Geochimica Et Cosmochimica Acta</i> , 1990, 54, 2859-2868.	3.9	142
10	Molecular asymmetry in extraterrestrial chemistry: Insights from a pristine meteorite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 3700-3704.	7.1	139
11	Nitrogen-containing compounds in two CR2 meteorites: ¹⁵ N composition, molecular distribution and precursor molecules. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 2150-2162.	3.9	136
12	Molecular and compound-specific isotopic characterization of monocarboxylic acids in carbonaceous meteorites. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 1073-1084.	3.9	132
13	Large enantiomeric excesses in primitive meteorites and the diverse effects of water in cosmochemical evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11949-11954.	7.1	123
14	The peptide-catalyzed stereospecific synthesis of tetroses: A possible model for prebiotic molecular evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 12713-12717.	7.1	114
15	Amino acids of the Murchison meteorite. III. Seven carbon acyclic primary α -amino alkanonic acids. <i>Geochimica Et Cosmochimica Acta</i> , 1986, 50, 2419-2427.	3.9	106
16	¹³ C NMR spectroscopy of the insoluble carbon of carbonaceous chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 1987, 51, 299-303.	3.9	105
17	The carbon isotopic distribution of Murchison amino acids. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 4963-4969.	3.9	105
18	The insoluble carbonaceous material of CM chondrites: A possible source of discrete organic compounds under hydrothermal conditions. <i>Meteoritics and Planetary Science</i> , 2007, 42, 37-48.	1.6	87

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19	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
20	Chemical Evolution and Meteorites: An Update. Origins of Life and Evolution of Biospheres, 2004, 34, 25-34.	1.9	71
21	Molecular asymmetry in extraterrestrial organic chemistry: An analytical perspective. Geochimica Et Cosmochimica Acta, 2011, 75, 645-656.	3.9	68
22	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
23	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
24	The Chemistry That Preceded Life's Origin: A Study Guide from Meteorites. Chemistry and Biodiversity, 2007, 4, 680-693.	2.1	58
25	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
26	Amino acids of the Murchison meteorite: II. Five carbon acyclic primary $\hat{1}^2$ -, $\hat{1}^3$ -, and $\hat{1}^1$ -amino alkanolic acids. Geochimica Et Cosmochimica Acta, 1985, 49, 2259-2265.	3.9	49
27	Molecular and isotopic analyses of Tagish Lake alkyl dicarboxylic acids. Meteoritics and Planetary Science, 2002, 37, 687-696.	1.6	49
28	Stereoselective Syntheses of Pentose Sugars Under Realistic Prebiotic Conditions. Origins of Life and Evolution of Biospheres, 2010, 40, 3-10.	1.9	49
29	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
30	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
31	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
32	Enantiomeric excesses of chiral amines in ammonia-rich carbonaceous meteorites. Earth and Planetary Science Letters, 2016, 443, 176-184.	4.4	25
33	Catalytic syntheses of amino acids and their significance for nebular and planetary chemistry. Meteoritics and Planetary Science, 2012, 47, 1291-1296.	1.6	24
34	HYDROGEN CYANIDE IN THE MURCHISON METEORITE. Astrophysical Journal Letters, 2012, 754, L27.	8.3	22
35	Molecular Asymmetry in Prebiotic Chemistry: An Account from Meteorites. Life, 2016, 6, 18.	2.4	17
36	Gas chromatographic-mass spectral analysis of the five-carbon $\hat{1}^2$ -, $\hat{1}^3$ -, and $\hat{1}^1$ -amino alkanolic acids. Analytical Biochemistry, 1982, 124, 139-149.	2.4	12

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37	Sutter's Mill dicarboxylic acids as possible tracers of parent-body alteration processes. <i>Meteoritics and Planetary Science</i> , 2014, 49, 2087-2094.	1.6	12
38	Identifying Chiral Molecules and their Enantiomeric Excesses in Extraterrestrial Samples: An Experimental Journey. <i>Israel Journal of Chemistry</i> , 2016, 56, 1027-1035.	2.3	11
39	The soluble organic compounds of the Mukundpura meteorite: A new CM chondrite fall. <i>Planetary and Space Science</i> , 2018, 164, 127-131.	1.7	11
40	Question 2: Why Astrobiology?. <i>Origins of Life and Evolution of Biospheres</i> , 2007, 37, 341-344.	1.9	10
41	On the Emergence of Biochemical Homochirality: An Elusive Beginning. <i>Origins of Life and Evolution of Biospheres</i> , 2010, 40, 1-2.	1.9	9
42	THE PATH OF REDUCED NITROGEN TOWARD EARLY EARTH: THE COSMIC TRAIL AND ITS SOLAR SHORTCUTS. <i>Astrophysical Journal</i> , 2015, 814, 107.	4.5	9
43	The Aguas Zarcas (CM2) meteorite: New insights into early solar system organic chemistry. <i>Meteoritics and Planetary Science</i> , 2020, 55, 1525-1538.	1.6	9
44	THE NITROGEN ISOTOPIC COMPOSITION OF METEORITIC HCN. <i>Astrophysical Journal Letters</i> , 2014, 796, L25.	8.3	8
45	Chiral molecules in space and their possible passage to planetary bodies recorded by meteorites. <i>Earth and Planetary Science Letters</i> , 2018, 496, 198-205.	4.4	7
46	Prebiotic chemical evolution: a meteoritic perspective. <i>Rendiconti Lincei</i> , 2011, 22, 153-163.	2.2	6
47	Ab initio calculations of 6- and 7-carbon meteoritic amino acids and their diastereomers. <i>Meteoritics and Planetary Science</i> , 2010, 45, 1053-1060.	1.6	3
48	Cosmochemical evolution and the origin of life: insights from meteorites. , 0, , 98-117.		1
49	Carbonaceous Chondrites, <i>Organic Chemistry of</i> . , 2015, , 374-376.		1
50	Carbonaceous Chondrites, <i>Organic Chemistry of</i> . , 2014, , 1-3.		0