

Alan W Schwartz

List of Publications by Year in descending order

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65
papers

2,436
citations

236612

25
h-index

205818

48
g-index

67
all docs

67
docs citations

67
times ranked

1372
citing authors

#	ARTICLE	IF	CITATIONS
1	Extraterrestrial nucleobases in the Murchison meteorite. <i>Earth and Planetary Science Letters</i> , 2008, 270, 130-136.	1.8	317
2	Uracil in carbonaceous meteorites. <i>Nature</i> , 1979, 282, 709-710.	13.7	181
3	Nitrogen-heterocyclic compounds in meteorites: significance and mechanisms of formation. <i>Geochimica Et Cosmochimica Acta</i> , 1981, 45, 563-569.	1.6	178
4	Phosphorus in prebiotic chemistry. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2006, 361, 1743-1749.	1.8	155
5	The prebiotic synthesis of carbohydrates: A reassessment. <i>Journal of Molecular Evolution</i> , 1993, 36, 101-106.	0.8	112
6	Basic nitrogen-heterocyclic compounds in the Murchison meteorite. <i>Geochimica Et Cosmochimica Acta</i> , 1982, 46, 309-315.	1.6	107
7	Search for purines and pyrimidines in the Murchison meteorite. <i>Geochimica Et Cosmochimica Acta</i> , 1977, 41, 961-968.	1.6	101
8	A plausibly prebiotic synthesis of phosphonic acids. <i>Nature</i> , 1995, 378, 474-477.	13.7	80
9	Acceleration of HCN oligomerization by formaldehyde and related compounds: Implications for prebiotic syntheses. <i>Journal of Molecular Evolution</i> , 1982, 18, 351-353.	0.8	72
10	Chemical reduction of phosphate on the primitive earth. <i>Origins of Life and Evolution of Biospheres</i> , 1999, 29, 555-561.	0.8	71
11	Uracil synthesis via HCN oligomerization. <i>Origins of Life and Evolution of Biospheres</i> , 1982, 12, 45-49.	0.6	60
12	Prebiotic adenine synthesis via HCN oligomerization in ice. <i>BioSystems</i> , 1982, 15, 191-193.	0.9	57
13	Prebiotic phosphorylation-nucleotide synthesis with apatite. <i>Nucleic Acids and Protein Synthesis</i> , 1972, 281, 477-480.	1.7	55
14	Intractable Mixtures and the Origin of Life. <i>Chemistry and Biodiversity</i> , 2007, 4, 656-664.	1.0	53
15	Synthesis of uracil and thymine under simulated prebiotic conditions. <i>BioSystems</i> , 1977, 9, 87-92.	0.9	50
16	Reduction and activation of phosphate on the primitive earth. , 2000, 30, 405-410.		47
17	Possible pathway for prebiotic uracil synthesis by photodehydrogenation. <i>Nature</i> , 1976, 263, 350-351.	13.7	42
18	Reactive Phosphonic Acids as Prebiotic Carriers of Phosphorus. <i>Journal of Molecular Evolution</i> , 1997, 44, 237-241.	0.8	40

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19	Recent progress in the prebiotic chemistry of HCN. <i>Origins of Life and Evolution of Biospheres</i> , 1984, 14, 91-98.	0.6	39
20	Template-directed synthesis of acyclic oligonucleotide analogues. <i>Journal of Molecular Evolution</i> , 1988, 28, 3-6.	0.8	36
21	Prebiotic nucleotide synthesis-demonstration of a geologically plausible pathway. <i>Origins of Life and Evolution of Biospheres</i> , 1975, 6, 163-168.	0.6	33
22	Template-directed polynucleotide synthesis on mineral surfaces. <i>Journal of Molecular Evolution</i> , 1985, 21, 299-300.	0.8	33
23	Determination of s-triazine derivatives at the nanogram level by gas-liquid chromatography. <i>Journal of Chromatography A</i> , 1979, 168, 455-460.	1.8	32
24	Speculation on the RNA Precursor Problem. <i>Journal of Theoretical Biology</i> , 1997, 187, 523-527.	0.8	31
25	Prebiotic photosynthetic reactions. <i>BioSystems</i> , 1981, 14, 15-32.	0.9	29
26	Nucleic acid-like structures II. Polynucleotide analogues as possible primitive precursors of nucleic acids. <i>Origins of Life and Evolution of Biospheres</i> , 1987, 17, 351-357.	0.8	26
27	Prebiotic phosphorus chemistry reconsidered. , 1997, 27, 505-512.		26
28	Thermal Synthesis of Nucleoside H-Phosphonates Under Mild Conditions. <i>Origins of Life and Evolution of Biospheres</i> , 2005, 35, 1-10.	0.8	26
29	The RNA World and its origins. <i>Planetary and Space Science</i> , 1995, 43, 161-165.	0.9	25
30	Prebiotic phosphorylation. II-nucleotide synthesis in the reaction system apatite-cyanogen-water. <i>BioSystems</i> , 1973, 5, 119-122.	0.9	21
31	Distribution of amino acids, amino sugars, purines and pyrimidines in a Lake Ontario sediment core. <i>Chemical Geology</i> , 1977, 19, 295-308.	1.4	21
32	Template-catalyzed oligomerization with an atactic glycerol-based polynucleotide analog. <i>Journal of Molecular Evolution</i> , 1990, 31, 163-166.	0.8	20
33	Manganese-catalyzed oligomerizations of nucleotide analogs. <i>Journal of Molecular Evolution</i> , 1989, 29, 284-287.	0.8	19
34	Origin of Life: The origin of macromolecular chirality. <i>Current Biology</i> , 1994, 4, 758-760.	1.8	19
35	Origins of the RNA world. , 1998, , 237-254.		18
36	Chemical evolution: The first stages. <i>Die Naturwissenschaften</i> , 1983, 70, 373-377.	0.6	17

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37	Prebiotic chemistry of phosphonic acids: products derived from phosphonoacetaldehyde in the presence of formaldehyde. <i>Origins of Life and Evolution of Biospheres</i> , 1998, 28, 271-282.	0.8	15
38	Selective cleavage of pyrophosphate linkages. <i>Nucleic Acids Research</i> , 1992, 20, 5749-5752.	6.5	13
39	Nucleotide analogs based on pentaerythritol " An hypothesis. <i>Origins of Life and Evolution of Biospheres</i> , 1993, 23, 185-194.	0.8	13
40	Mineral Catalysis of a Potentially Prebiotic Aldol Condensation. <i>Journal of Molecular Evolution</i> , 1998, 47, 501-507.	0.8	13
41	Synthesis of hypophosphate by ultraviolet irradiation of phosphite solutions. <i>Inorganic and Nuclear Chemistry Letters</i> , 1973, 9, 39-41.	0.7	12
42	Evaluating the Plausibility of Prebiotic Multistage Syntheses. <i>Astrobiology</i> , 2013, 13, 784-789.	1.5	12
43	Glaciers, volcanic islands and the origin of life. <i>Precambrian Research</i> , 1983, 22, 167-174.	1.2	11
44	Nucleic acid-like structures III. Oligomerization of 3'-deoxyadenosine 2',5'-diphosphoimidazolidine. <i>Journal of Molecular Evolution</i> , 1987, 26, 291-293.	0.8	10
45	Photoreductive formation of acetaldehyde from aqueous formaldehyde. <i>Tetrahedron Letters</i> , 1993, 34, 2201-2202.	0.7	10
46	Hydrogen bonding in the template-directed oligomerization of a pyrimidine nucleotide analogue. <i>Journal of Molecular Evolution</i> , 1995, 41, 257-261.	0.8	9
47	Synthesis of P1,P2-dinucleotide pyrophosphates. <i>Tetrahedron Letters</i> , 1987, 28, 2763-2766.	0.7	8
48	Prebiotic evolution: Selecting for homochirality before RNA. <i>Current Biology</i> , 1997, 7, R477-R479.	1.8	8
49	Purines, pyrimidines and organic carbon in lake sediments " A comparison of sediments from lakes of varying degrees of eutrophication. <i>Chemical Geology</i> , 1976, 18, 273-284.	1.4	7
50	Oligomerization of cytosine-containing nucleotide analogs in aqueous solution. <i>Journal of Molecular Evolution</i> , 1990, 30, 3-6.	0.8	7
51	HCN Oligomerization - Isolation and Preliminary Characterization of a New Precursor of Adenine. , 1981, , 217-223.		6
52	Biology and Theory: RNA and the Origin of Life. , 1993, , 323-344.		5
53	Synthesis of Acyclic Nucleoside Analogs Related to Barbituric Acid. <i>Nucleosides & Nucleotides</i> , 1993, 12, 107-114.	0.5	5
54	An achiral (oligo)nucleotide analog. <i>Journal of Molecular Evolution</i> , 1994, 38, 438-442.	0.8	5

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55	Nitrogen Compounds in Carbonaceous Meteorites: A Reassessment. , 1981, , 59-64.		5
56	An Evolutionary Model for Prebiotic Phosphorylation. , 1974, , 435-443.		4
57	Minimal requirements for molecular information transfer. Advances in Space Research, 1986, 6, 23-27.	1.2	3
58	Oligomerization of deoxynucleoside-bisphosphate dimers: Template and linkage specificity. Origins of Life and Evolution of Biospheres, 1989, 19, 3-6.	0.8	2
59	Is ligation the only solution to the pyrophosphate problem?. Origins of Life and Evolution of Biospheres, 1993, 23, 317-321.	0.8	2
60	Nucleic acid analogues and the origins of replication. Advances in Space Research, 1989, 9, 77-81.	1.2	1
61	Oligomerizations of deoxyadenosine bis-phosphates and of their 3'→5', 3'→3', and 5'→5' dimers: Effects of a pyrophosphate-linked, poly(t) analog. Origins of Life and Evolution of Biospheres, 1990, 20, 369-375.	0.8	1
62	Models for the origins of RNA molecules. Origins of Life and Evolution of Biospheres, 1989, 19, 322-322.	0.8	0
63	Sparking an unusual nutrient. Nature Geoscience, 2009, 2, 538-539.	5.4	0
64	Changes in the Purine and Pyrimidine Concentrations and Organic Carbon Contents in Lake Sediments. , 1976, , 165-165.		0
65	Chirality and the First Self-Replicating Molecules. , 1994, , 107-114.		0