Adrian L Schwan

List of Publications by Year
in descending order

95 papers	2,006 citations	318942 23 h-index	325983 40 g-index
114 all docs	114 docs citations	114 times ranked	2062 citing authors

#	Article	IF	Citations
1	A DFT examination of the role of proximal boron functionalities in the S-alkylation of sulfenic acid anions. Organic and Biomolecular Chemistry, 2022, 20, 649-657.	1.5	3
2	The generation and reactions of sulfenate anions. An update. Journal of Sulfur Chemistry, 2022, 43, 540-592.	1.0	15
3	N â€Sulfanylimides as the Sulfur Source for Alkyl Allenyl Sulfoxides via [2,3]â€Sigmatropic Rearrangement. ChemistrySelect, 2021, 6, 11331-11336.	0.7	2
4	Structure, Hydration, and Interactions of Native and Hydrophobically Modified Phytoglycogen Nanoparticles. Biomacromolecules, 2020, 21, 4053-4062.	2.6	19
5	Mechanisms of alamethicin ion channel inhibition by amiloride in zwitterionic tethered lipid bilayers. Journal of Electroanalytical Chemistry, 2019, 848, 113281.	1.9	9
6	Origins and applications of stereoselective sulfenate anion alkylation reactions. Phosphorus, Sulfur and Silicon and the Related Elements, 2019, 194, 692-697.	0.8	7
7	A mechanistic study of oxygen atom transfer from N-sulfonyloxaziridine to enolates. Tetrahedron, 2019, 75, 2056-2061.	1.0	4
8	How Valinomycin Ionophores Enter and Transport K⁺ across Model Lipid Bilayer Membranes. Langmuir, 2019, 35, 16935-16943.	1.6	33
9	A Computational Determination of the Origins of Diastereoselective Alkylations of a Cysteinesulfenate Anion. European Journal of Organic Chemistry, 2019, 2019, 519-526.	1.2	6
10	EIS and PM-IRRAS studies of alamethicin ion channels in a tethered lipid bilayer. Journal of Electroanalytical Chemistry, 2018, 812, 213-220.	1.9	30
11	Gramicidin A ion channel formation in model phospholipid bilayers tethered to gold (111) electrode surfaces. Electrochimica Acta, 2017, 243, 364-373.	2.6	23
12	Measurements of surface concentration and charge number per adsorbed molecule for a thiolipid monolayer tethered to the Au(111) surface by a long hydrophilic chain. Journal of Electroanalytical Chemistry, 2017, 793, 203-208.	1.9	7
13	Characterization of Antifungal Natural Products Isolated from Endophytic Fungi of Finger Millet (Eleusine coracana). Molecules, 2016, 21, 1171.	1.7	24
14	Synthetic lung surfactants containing SP-B and SP-C peptides plus novel phospholipase-resistant lipids or glycerophospholipids. PeerJ, 2016, 4, e2635.	0.9	11
15	An endophytic fungus isolated from finger millet (Eleusine coracana) produces anti-fungal natural products. Frontiers in Microbiology, 2015, 6, 1157.	1.5	54
16	Unexpected reactions of Grignard reagents with selected Î²-carboalkoxy substituted sulfinate esters. Canadian Journal of Chemistry, 2015, 93, 37-43.	0.6	3
17	A New Role for Sulfenate Anions: Organocatalysis. ChemCatChem, 2015, 7, 226-227.	1.8	15
18	The effect of the hydrophilic spacer length on the functionality of a mercury-supported tethered bilayer lipid membrane. Bioelectrochemistry, 2015, 101, 92-96.	2.4	8

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19	Unexpected Pyrolytic Behaviour of Substituted Benzo[c]thiopyran and Thieno[2,3-c]thiopyran S,S-dioxides. Australian Journal of Chemistry, 2014, 67, 1288.	0.5	8
20	Binding of a Monoclonal Antibody to the Phospholamban Cytoplasmic Domain Interferes with the Channel Activity of Phospholamban Reconstituted in a Tethered Bilayer Lipid Membrane. Langmuir, 2014, 30, 10384-10388.	1.6	6
21	Introducing the Diels-Alder Reactivity of 2-Furanmethanethiol with Selected Maleic Acid Derivatives. Heterocycles, 2014, 88, 1603.	0.4	3
22	Stereodivergent Access to Cis- and Trans-3,5-Disubstituted 1,4-Thiazane 1-Oxides by Cyclization of Homochiral Î²-Amino Sulfoxides and Sulfones. The Preparation of Isomeric Ant Venom Alkaloids. Organic Letters, 2013, 15, 4434-4437.	2.4	15
23	Can proton pumping by SERCA enhance the regulatory role of phospholamban and sarcolipin?. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 2682-2690.	1.4	14
24	The base-mediated cyclization of selected benzyl alkynyl sulfones with aromatic aldehydes: novel synthetic access to aryl-substituted 5,6-dihydro-1,4-oxathiin S,S-dioxides. Journal of Sulfur Chemistry, 2013, 34, 79-87.	1.0	2
25	Discoveries in Sulfenic Acid Anion Chemistry. Phosphorus, Sulfur and Silicon and the Related Elements, 2013, 188, 275-286.	0.8	23
26	Sulfenate Substitution as a Complement and Alternative to Sulfoxidation in the Diastereoselective Preparation of Chiral Î²-Substituted Î²-Amino Sulfoxides. Journal of Organic Chemistry, 2013, 78, 1638-1649.	1.7	23
27	1,2-Dibromotetrachloroethane: An Ozone-Friendly Reagent for the in Situ Rambergâ€“BÃcklund Rearrangement and Its Use in the Formal Synthesis of E-Resveratrol. Journal of Organic Chemistry, 2012, 77, 10978-10984.	1.7	50
28	Synthesis and activity of a novel diether phosphonoglycerol in phospholipase-resistant synthetic lipid:peptide lung surfactants. MedChemComm, 2011, 2, 1167.	3.5	15
29	The Diastereoselective Alkylation of Arenesulfenate Anions Using Homochiral Electrophiles. Organic Letters, 2011, 13, 4192-4195.	2.4	23
30	Membrane Topology of the Colicin E1 Channel Using Genetically Encoded Fluorescence. Biochemistry, 2011, 50, 4830-4842.	1.2	12
31	Separate Deprotonation Reactions Converge Mechanistically for a New Cyclization of Benzyl 1-Alkynyl Sulfones. Organic Letters, 2011, 13, 5330-5333.	2.4	21
32	A Microwave-Assisted Synthesis of (S)-N-Protected Homoserine Î³-Lactones froml-Aspartic Acid. Journal of Organic Chemistry, 2011, 76, 6825-6831.	1.7	4
33	Synthetic scope, computational chemistry and mechanism of a base induced 5-endo cyclization of benzyl alkynyl sulfides. Tetrahedron, 2011, 67, 1002-1010.	1.0	16
34	Nucleophilic attack of 2-sulfinyl acrylates: A mild and general approach to sulfenic acid anions. Organic and Biomolecular Chemistry, 2010, 8, 1712.	1.5	27
35	Cesium (Z)â€2â€Carbomethoxyethenethiolate: A Reagent for the Preparation of (Z)â€2â€Carbomethoxyethenyl Thioethers Including Selected Cysteine and Homocysteine Derivatives. European Journal of Organic Chemistry, 2009, 2009, 547-553.	1.2	10
36	In Situ PM-IRRAS Studies of an Archaea Analogue Thiolipid Assembled on a Au(111) Electrode Surface. Langmuir, 2009, 25, 10354-10363.	1.6	67

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37	Diastereoselective Alkylations of a Protected Cysteinesulfenate. Journal of Organic Chemistry, 2009, 74, 6851-6854.	1.7	21
38	A New Method to Evaluate the Surface Dipole Potential of Thiol and Disulfide Self-Assembled Monolayers and Its Application to a Disulfidated Tetraoxyethylene Glycol. Langmuir, 2009, 25, 1828-1835.	1.6	15
39	Triclinic modification ofN-[(1,1-dimethylethoxy)carbonyl]-3-[(R)-prop-2-en-1-ylsulfinyl]-(R)-alanine ethyl ester at 120â€...(1) K. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o1387-o1387.	0.2	2
40	Monoclinic modification ofN-[(1,1-dimethylethoxy)carbonyl]-3-[(R)-prop-2-en-1-ylsulfinyl]-(R)-alanine ethyl ester at 200â€...(1) K. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o1385-o1386.	0.2	2
41	Bis(2-bromobenzyl) trisulfide. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o361-o361.	0.2	0
42	The preparation of three new partially deuterated hexadecanethiols for applications in surface chemistry. Journal of Labelled Compounds and Radiopharmaceuticals, 2008, 51, 391-398.	0.5	2
43	New Deuterated Oligo(ethylene glycol) Building Blocks and Their Use in the Preparation of Surface Active Lipids Possessing Labeled Hydrophilic Tethers. Journal of Organic Chemistry, 2008, 73, 1371-1378.	1.7	15
44	Novel Phospholipase-Resistant Lipid/Peptide Synthetic Lung Surfactants. Mini-Reviews in Medicinal Chemistry, 2007, 7, 932-944.	1.1	27
45	Activity and Inhibition Resistance of a Phospholipase-Resistant Synthetic Surfactant in Rat Lungs. American Journal of Respiratory Cell and Molecular Biology, 2007, 37, 387-394.	1.4	29
46	Synthesis of sulfur-containing glycerophospholipids. Journal of Sulfur Chemistry, 2007, 28, 45-72.	1.0	3
47	S-Alk(en)yl- <scp>l</scp>-cysteine Sulfoxides and Relative Pungency Measurements of Photosynthetic and Nonphotosynthetic Tissues of Allium porrum. Journal of Agricultural and Food Chemistry, 2007, 55, 8243-8250.	2.4	9
48	Synthesis and surface activity of diether-linked phosphoglycerols: Potential applications for exogenous lung surfactants. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 113-117.	1.0	12
49	Dynamic Surface Activity of a Fully Synthetic Phospholipase-Resistant Lipid/Peptide Lung Surfactant. PLoS ONE, 2007, 2, e1039.	1.1	28
50	New Method to Measure Packing Densities of Self-Assembled Thiolipid Monolayers. Langmuir, 2006, 22, 5509-5519.	1.6	73
51	A BF3-Mediated Nitrogen-to-Carbon Rearrangement of N-Protected 2,3-Dihydro-3-hydroxy-1H-benzisoindol-1-ones, and Its Interception for a Facile Preparation of 3-Substituted Benzisoindolones. Synlett, 2006, 2006, 3115-3119.	1.0	2
52	Surface properties of sulfur- and ether-linked phosphonolipids with and without purified hydrophobic lung surfactant proteins. Chemistry and Physics of Lipids, 2005, 137, 77-93.	1.5	19
53	Exotoxin Aâ€“eEF2 complex structure indicates ADP ribosylation by ribosome mimicry. Nature, 2005, 436, 979-984.	13.7	117
54	Evaluation of Ethyl 2-Carbomethoxyethenesulfinates as 2-Hydroxymethyl Enethiol Equivalents in the Dielsâ€”Alder Reaction.. ChemInform, 2005, 36, no.	0.1	0

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55	Evaluation of Ethyl 2-Carbomethoxyethenesulfinates as 2-Hydroxymethyl Enethiol Equivalents in the Dielsâ€"Alder Reaction.. ChemInform, 2005, 36, no.	0.1	0
56	Evaluation of ethyl 2-carbomethoxyethenesulfinates as 2-hydroxymethyl enethiol equivalents in the Dielsâ€"Alder reaction. Tetrahedron, 2005, 61, 1115-1125.	1.0	7
57	Determination of theZ1H NMR chemical shift substituent parameters for the sulfinyl chloride and sulfinate ester functionalities. Journal of Sulfur Chemistry, 2004, 25, 29-37.	1.0	1
58	Palladium Catalyzed Cross-Coupling Reactions for Phosphorusâ€"Carbon Bond Formation. ChemInform, 2004, 35, no.	0.1	0
59	Generation, Structure, and Reactions of Sulfenic Acid Anions. ChemInform, 2004, 35, no.	0.1	0
60	Synthesis and interfacial behavior of sulfur-containing analogs of lung surfactant dipalmitoyl phosphatidylcholine. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 5983-5986.	1.0	8
61	Palladium catalyzed cross-coupling reactions for phosphorusâ€"carbon bond formation. Chemical Society Reviews, 2004, 33, 218-224.	18.7	263
62	Generation, structure and reactions of sulfenic acid anions. Journal of Sulfur Chemistry, 2004, 25, 183-211.	1.0	71
63	A Study of Î²-Casein Tertiary Structure by Intramolecular Crosslinking and Mass Spectrometry. Journal of Dairy Science, 2004, 87, 3638-3647.	1.4	54
64	A convenient synthesis of13C4-Leflunomide and its primary metabolite13C4-A77 1726. Journal of Labelled Compounds and Radiopharmaceuticals, 2003, 46, 613-622.	0.5	6
65	Î²-Sulfinyl Acrylate Esters as a Convenient Source of Alkane- and Arenesulfenate Anions.. ChemInform, 2003, 34, no.	0.1	0
66	Î²-Sulfinyl acrylate esters as a convenient source of alkane- and arenesulfenate anions. Tetrahedron Letters, 2003, 44, 6293-6296.	0.7	25
67	Stereospecific Grignard reactions of cholesteryl 1-alkenesulfinate esters: Application of the Andersen Protocol to the preparation of non-racemic Î±,Î²-unsaturated sulfoxides. Canadian Journal of Chemistry, 2003, 81, 423-430.	0.6	6
68	Regioselective Bond Cleavage in the Dissociative Electron Transfer to Benzyl Thiocyanates. Journal of the American Chemical Society, 2003, 125, 12676-12677.	6.6	23
69	A novel base-induced cyclization of selected benzyl alkynyl sulfides for the synthesis of 2-aryl-2,3-dihydrothiophenes. Tetrahedron Letters, 2000, 41, 5637-5641.	0.7	25
70	Synthesis and characterization of homochiral cholesteryl 1-alkenesulfinate esters. Tetrahedron: Asymmetry, 2000, 11, 4843-4852.	1.8	4
71	SYNTHESIS AND REACTIONS OF SULFINYL CHLORIDES. AN UPDATE. Organic Preparations and Procedures International, 1999, 31, 579-615.	0.6	20
72	Andersen chemistry with an Î±,Î²-unsaturated sulfinyl chloride: synthesis and Grignard reactions of homochiral cholesteryl (R)S-(E)-t-butylethenesulfinate. Tetrahedron: Asymmetry, 1999, 10, 4065-4069.	1.8	9

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73	The reaction of thiolates with 2,3-dibromo-1-propanol revisited: application to the synthesis of bis(fattyalkylthio)propanols. Chemistry and Physics of Lipids, 1999, 101, 215-222.	1.5	3
74	Highly Diastereoselective Intramolecular Dielsâ^'Alder Reactions of Furan-Tethered 1-Alkenesulfinic Acid Esters. Organic Letters, 1999, 1, 487-490.	2.4	10
75	Dielsâ^'Alder Cycloadditions of Ethyl 2-Carbomethoxyethenesulfinates with Cyclopentadiene. Lewis Acid Enhancement and Adduct Identification with the Assistance of Competitive Stereodifferentiating Iodolactonization and Iodosultinization Reactions. Journal of Organic Chemistry, 1999, 64, 8138-8143.	1.7	7
76	1-Alkenesulfinyl Chlorides:â€‰ Synthesis, Characterization, and Some Substitution Reactions. Journal of Organic Chemistry, 1998, 63, 7825-7832.	1.7	19
77	The Preparation of (E)-1-Alkenylthiosilanes by the Reduction and Silicon Capture of 1-Alkenesulfenate Anions. Synlett, 1998, 1998, 96-98.	1.0	13
78	The reactions of a 1-alkenesulfenate anion with TMS-X reagents; a variable temperature NMR study. Canadian Journal of Chemistry, 1998, 76, 213-220.	0.6	3
79	Transamination Studies onN-(1-Alkenylthio)phthalimides and Related Compounds. Synthesis of 1-Alkenesulfenamides and 1-Alkenesulfonamides1. Journal of Organic Chemistry, 1996, 61, 4232-4239.	1.7	22
80	Preparation of N,N-bis(trimethylsilyl)-1-alkenesulfenamides and their desilylative conversion to 1-alkenesulfenimines. New stable 1-alkenesulfenic acid derivatives. Tetrahedron, 1996, 52, 8387-8396.	1.0	19
81	Oxidative fragmentations of selected 1-alkenyl sulfoxides. Chemical and spectroscopic evidence for 1-alkenesulfinyl chlorides. Tetrahedron Letters, 1996, 37, 2345-2348.	0.7	7
82	Three families of thiol peptides are induced by cadmium in maize. Plant Journal, 1995, 7, 391-400.	2.8	109
83	Asymmetric chemical oxidations of aryl and alkyl 2-(trimethylsilyl)ethyl sulfides. Tetrahedron: Asymmetry, 1995, 6, 131-138.	1.8	15
84	Theoretical and Experimental Analyses of the Deprotonation of Thiirane S-Oxides: The Stereoselective Formation of trans-Alkyl- and gem-Silylethenesulfenate Anions. Journal of the American Chemical Society, 1995, 117, 184-192.	6.6	45
85	N,N-bis(trimethylsilyl)alkenesulfenamides: synthesis and transaminations via S-alkenylthiophthalimides. A general route to alkenesulfenamides and alkenesulfonamides. Journal of the Chemical Society Chemical Communications, 1995, , 1949.	2.0	7
86	Preparation and Reactions of Substituted Ethenesulfenate Anions. Phosphorus, Sulfur and Silicon and the Related Elements, 1994, 95, 327-328.	0.8	2
87	Synthesis, reactions, and interconversions of some 2-(trimethylsilyl)ethyl substituted sulfur compounds. Canadian Journal of Chemistry, 1994, 72, 325-333.	0.6	25
88	On the conformational preferences of the dehydrochlorination of Î±-chlorosulfoxides. Canadian Journal of Chemistry, 1994, 72, 312-324.	0.6	18
89	Substituent control over the regiochemistry of ring opening of 2-aziridinylmethyl radicals. Tetrahedron Letters, 1993, 34, 4901-4904.	0.7	27
90	Glutathione Conjugation: A Detoxification Pathway for Fenoxaprop-ethyl in Barley, Crabgrass, Oat, and Wheat. Pesticide Biochemistry and Physiology, 1993, 46, 190-199.	1.6	62

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91	The selective generation of trans-substituted lithium and sodium ethenesulfenate anions. Journal of the Chemical Society Chemical Communications, 1993, , 1312.	2.0	9
92	In pursuit of cyclopropanethione: cyclopropanethione S-oxide and S,S-dioxide. Journal of the American Chemical Society, 1992, 114, 3492-3499.	6.6	30
93	The one-pot generation and ring opening of alkyl and aryl thiirane-S-oxides. Tetrahedron Letters, 1992, 33, 5897-5900.	0.7	5
94	The reactions of simple dimethylallylamines with dimethyl acetylenedicarboxylate. Formation of 1-dimethylamino-2-allylmaleates via formal allyl transfer. Canadian Journal of Chemistry, 1988, 66, 1686-1694.	0.6	27
95	A novel 3,4-dihydro-5-methylene-1,2,4-triazole and its reactions with acrylonitrile and sulphene (thioformaldehyde S,S-dioxide) to form spiroaziridines. Journal of the Chemical Society Chemical Communications, 1986, , 1721.	2.0	8