

Adrian L Schwan

List of Publications by Year in descending order

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papers

2,006
citations

279798

23
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289244

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114
all docs

114
docs citations

114
times ranked

1871
citing authors

#	ARTICLE	IF	CITATIONS
1	Palladium catalyzed cross-coupling reactions for phosphorus-carbon bond formation. <i>Chemical Society Reviews</i> , 2004, 33, 218-224.	38.1	263
2	Exotoxin A's eEF2 complex structure indicates ADP ribosylation by ribosome mimicry. <i>Nature</i> , 2005, 436, 979-984.	27.8	117
3	Three families of thiol peptides are induced by cadmium in maize. <i>Plant Journal</i> , 1995, 7, 391-400.	5.7	109
4	New Method to Measure Packing Densities of Self-Assembled Thiolipid Monolayers. <i>Langmuir</i> , 2006, 22, 5509-5519.	3.5	73
5	Generation, structure and reactions of sulfenic acid anions. <i>Journal of Sulfur Chemistry</i> , 2004, 25, 183-211.	2.0	71
6	In Situ PM-IRRAS Studies of an Archaea Analogue Thiolipid Assembled on a Au(111) Electrode Surface. <i>Langmuir</i> , 2009, 25, 10354-10363.	3.5	67
7	Glutathione Conjugation: A Detoxification Pathway for Fenoxaprop-ethyl in Barley, Crabgrass, Oat, and Wheat. <i>Pesticide Biochemistry and Physiology</i> , 1993, 46, 190-199.	3.6	62
8	A Study of β -Casein Tertiary Structure by Intramolecular Crosslinking and Mass Spectrometry. <i>Journal of Dairy Science</i> , 2004, 87, 3638-3647.	3.4	54
9	An endophytic fungus isolated from finger millet (<i>Eleusine coracana</i>) produces anti-fungal natural products. <i>Frontiers in Microbiology</i> , 2015, 6, 1157.	3.5	54
10	1,2-Dibromotetrachloroethane: An Ozone-Friendly Reagent for the in Situ Ramberg-Bäcklund Rearrangement and Its Use in the Formal Synthesis of (+)-Resveratrol. <i>Journal of Organic Chemistry</i> , 2012, 77, 10978-10984.	3.2	50
11	Theoretical and Experimental Analyses of the Deprotonation of Thiirane S-Oxides: The Stereoselective Formation of trans-Alkyl- and gem-Silylthioethanesulfenate Anions. <i>Journal of the American Chemical Society</i> , 1995, 117, 184-192.	13.7	45
12	How Valinomycin Ionophores Enter and Transport K^{+} across Model Lipid Bilayer Membranes. <i>Langmuir</i> , 2019, 35, 16935-16943.	3.5	33
13	In pursuit of cyclopropanethione: cyclopropanethione S-oxide and S,S-dioxide. <i>Journal of the American Chemical Society</i> , 1992, 114, 3492-3499.	13.7	30
14	EIS and PM-IRRAS studies of alamethicin ion channels in a tethered lipid bilayer. <i>Journal of Electroanalytical Chemistry</i> , 2018, 812, 213-220.	3.8	30
15	Activity and Inhibition Resistance of a Phospholipase-Resistant Synthetic Surfactant in Rat Lungs. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2007, 37, 387-394.	2.9	29
16	Dynamic Surface Activity of a Fully Synthetic Phospholipase-Resistant Lipid/Peptide Lung Surfactant. <i>PLoS ONE</i> , 2007, 2, e1039.	2.5	28
17	The reactions of simple dimethylallylamines with dimethyl acetylenedicarboxylate. Formation of 1-dimethylamino-2-allylmaleates via formal allyl transfer. <i>Canadian Journal of Chemistry</i> , 1988, 66, 1686-1694.	1.1	27
18	Substituent control over the regiochemistry of ring opening of 2-aziridinylmethyl radicals. <i>Tetrahedron Letters</i> , 1993, 34, 4901-4904.	1.4	27

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19	Novel Phospholipase-Resistant Lipid/Peptide Synthetic Lung Surfactants. <i>Mini-Reviews in Medicinal Chemistry</i> , 2007, 7, 932-944.	2.4	27
20	Nucleophilic attack of 2-sulfinyl acrylates: A mild and general approach to sulfenic acid anions. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 1712.	2.8	27
21	Synthesis, reactions, and interconversions of some 2-(trimethylsilyl)ethyl substituted sulfur compounds. <i>Canadian Journal of Chemistry</i> , 1994, 72, 325-333.	1.1	25
22	A novel base-induced cyclization of selected benzyl alkynyl sulfides for the synthesis of 2-aryl-2,3-dihydrothiophenes. <i>Tetrahedron Letters</i> , 2000, 41, 5637-5641.	1.4	25
23	$\hat{\text{I}}^2$ -Sulfinyl acrylate esters as a convenient source of alkane- and arenesulfenate anions. <i>Tetrahedron Letters</i> , 2003, 44, 6293-6296.	1.4	25
24	Characterization of Antifungal Natural Products Isolated from Endophytic Fungi of Finger Millet (<i>Eleusine coracana</i>). <i>Molecules</i> , 2016, 21, 1171.	3.8	24
25	Regioselective Bond Cleavage in the Dissociative Electron Transfer to Benzyl Thiocyanates. <i>Journal of the American Chemical Society</i> , 2003, 125, 12676-12677.	13.7	23
26	The Diastereoselective Alkylation of Arenesulfenate Anions Using Homochiral Electrophiles. <i>Organic Letters</i> , 2011, 13, 4192-4195.	4.6	23
27	Discoveries in Sulfenic Acid Anion Chemistry. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2013, 188, 275-286.	1.6	23
28	Sulfenate Substitution as a Complement and Alternative to Sulfoxidation in the Diastereoselective Preparation of Chiral $\hat{\text{I}}^2$ -Substituted $\hat{\text{I}}^2$ -Amino Sulfoxides. <i>Journal of Organic Chemistry</i> , 2013, 78, 1638-1649.	3.2	23
29	Gramicidin A ion channel formation in model phospholipid bilayers tethered to gold (111) electrode surfaces. <i>Electrochimica Acta</i> , 2017, 243, 364-373.	5.2	23
30	Transamination Studies on N-(1-Alkenylthio)phthalimides and Related Compounds. Synthesis of 1-Alkenesulfenamides and 1-Alkenesulfonamides. <i>Journal of Organic Chemistry</i> , 1996, 61, 4232-4239.	3.2	22
31	Diastereoselective Alkylations of a Protected Cysteinesulfenate. <i>Journal of Organic Chemistry</i> , 2009, 74, 6851-6854.	3.2	21
32	Separate Deprotonation Reactions Converge Mechanistically for a New Cyclization of Benzyl 1-Alkynyl Sulfones. <i>Organic Letters</i> , 2011, 13, 5330-5333.	4.6	21
33	SYNTHESIS AND REACTIONS OF SULFINYL CHLORIDES. AN UPDATE. <i>Organic Preparations and Procedures International</i> , 1999, 31, 579-615.	1.3	20
34	Preparation of N,N-bis(trimethylsilyl)-1-alkenesulfenamides and their desilylative conversion to 1-alkenesulfenimines. New stable 1-alkenesulfenic acid derivatives. <i>Tetrahedron</i> , 1996, 52, 8387-8396.	1.9	19
35	1-Alkenesulfinyl Chlorides: Synthesis, Characterization, and Some Substitution Reactions. <i>Journal of Organic Chemistry</i> , 1998, 63, 7825-7832.	3.2	19
36	Surface properties of sulfur- and ether-linked phosphonolipids with and without purified hydrophobic lung surfactant proteins. <i>Chemistry and Physics of Lipids</i> , 2005, 137, 77-93.	3.2	19

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37	Structure, Hydration, and Interactions of Native and Hydrophobically Modified Phytoglycogen Nanoparticles. <i>Biomacromolecules</i> , 2020, 21, 4053-4062.	5.4	19
38	On the conformational preferences of the dehydrochlorination of β -chlorosulfoxides. <i>Canadian Journal of Chemistry</i> , 1994, 72, 312-324.	1.1	18
39	Synthetic scope, computational chemistry and mechanism of a base induced 5-endo cyclization of benzyl alkynyl sulfides. <i>Tetrahedron</i> , 2011, 67, 1002-1010.	1.9	16
40	Asymmetric chemical oxidations of aryl and alkyl 2-(trimethylsilyl)ethyl sulfides. <i>Tetrahedron: Asymmetry</i> , 1995, 6, 131-138.	1.8	15
41	New Deuterated Oligo(ethylene glycol) Building Blocks and Their Use in the Preparation of Surface Active Lipids Possessing Labeled Hydrophilic Tethers. <i>Journal of Organic Chemistry</i> , 2008, 73, 1371-1378.	3.2	15
42	A New Method to Evaluate the Surface Dipole Potential of Thiol and Disulfide Self-Assembled Monolayers and Its Application to a Disulfidated Tetraoxyethylene Glycol. <i>Langmuir</i> , 2009, 25, 1828-1835.	3.5	15
43	Synthesis and activity of a novel diether phosphoglycerol in phospholipase-resistant synthetic lipid:peptide lung surfactants. <i>MedChemComm</i> , 2011, 2, 1167.	3.4	15
44	Stereodivergent Access to <i>Cis</i> - and <i>Trans</i> -3,5-Disubstituted 1,4-Thiazane 1-Oxides by Cyclization of Homochiral β -Amino Sulfoxides and Sulfones. The Preparation of Isomeric Ant Venom Alkaloids. <i>Organic Letters</i> , 2013, 15, 4434-4437.	4.6	15
45	A New Role for Sulfenate Anions: Organocatalysis. <i>ChemCatChem</i> , 2015, 7, 226-227.	3.7	15
46	The generation and reactions of sulfenate anions. An update. <i>Journal of Sulfur Chemistry</i> , 2022, 43, 540-592.	2.0	15
47	Can proton pumping by SERCA enhance the regulatory role of phospholamban and sarcolipin?. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 2682-2690.	2.6	14
48	The Preparation of (E)-1-Alkenylthiosilanes by the Reduction and Silicon Capture of 1-Alkenesulfenate Anions. <i>Synlett</i> , 1998, 1998, 96-98.	1.8	13
49	Synthesis and surface activity of diether-linked phosphoglycerols: Potential applications for exogenous lung surfactants. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007, 17, 113-117.	2.2	12
50	Membrane Topology of the Colicin E1 Channel Using Genetically Encoded Fluorescence. <i>Biochemistry</i> , 2011, 50, 4830-4842.	2.5	12
51	Synthetic lung surfactants containing SP-B and SP-C peptides plus novel phospholipase-resistant lipids or glycerophospholipids. <i>PeerJ</i> , 2016, 4, e2635.	2.0	11
52	Highly Diastereoselective Intramolecular Diels-Alder Reactions of Furan-Tethered 1-Alkenesulfinic Acid Esters. <i>Organic Letters</i> , 1999, 1, 487-490.	4.6	10
53	Cesium (<i>Z</i>)- β -Carbomethoxyethenethiolate: A Reagent for the Preparation of (<i>Z</i>)- β -Carbomethoxyethenyl Thioethers Including Selected Cysteine and Homocysteine Derivatives. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 547-553.	2.4	10
54	The selective generation of trans-substituted lithium and sodium ethenesulfenate anions. <i>Journal of the Chemical Society Chemical Communications</i> , 1993, , 1312.	2.0	9

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55	Andersen chemistry with an \hat{I}_{\pm}, \hat{I}^2 -unsaturated sulfinyl chloride: synthesis and Grignard reactions of homochiral cholesteryl (R)S-(E)- <i>t</i> -butylethanesulfinate. <i>Tetrahedron: Asymmetry</i> , 1999, 10, 4065-4069.	1.8	9
56	<i>S</i> -Alk(en)yl-cysteine Sulfoxides and Relative Pungency Measurements of Photosynthetic and Nonphotosynthetic Tissues of <i>Allium porrum</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 8243-8250.	5.2	9
57	Mechanisms of alamethicin ion channel inhibition by amiloride in zwitterionic tethered lipid bilayers. <i>Journal of Electroanalytical Chemistry</i> , 2019, 848, 113281.	3.8	9
58	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. <i>Journal of the Chemical Society Chemical Communications</i> , 1986, , 1721.	2.0	8
59	Synthesis and interfacial behavior of sulfur-containing analogs of lung surfactant dipalmitoyl phosphatidylcholine. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004, 14, 5983-5986.	2.2	8
60	Unexpected Pyrolytic Behaviour of Substituted Benzo[<i>c</i>]thiopyran and Thieno[2,3- <i>c</i>]thiopyran S,S-dioxides. <i>Australian Journal of Chemistry</i> , 2014, 67, 1288.	0.9	8
61	The effect of the hydrophilic spacer length on the functionality of a mercury-supported tethered bilayer lipid membrane. <i>Bioelectrochemistry</i> , 2015, 101, 92-96.	4.6	8
62	N,N-bis(trimethylsilyl)alkenesulfenamides: synthesis and transaminations via <i>S</i> -alkenylthiophthalimides. A general route to alkenesulfenamides and alkenesulfonamides. <i>Journal of the Chemical Society Chemical Communications</i> , 1995, , 1949.	2.0	7
63	Oxidative fragmentations of selected 1-alkenyl sulfoxides. Chemical and spectroscopic evidence for 1-alkenesulfinyl chlorides. <i>Tetrahedron Letters</i> , 1996, 37, 2345-2348.	1.4	7
64	Diels-Alder Cycloadditions of Ethyl 2-Carbomethoxyethanesulfonates with Cyclopentadiene. Lewis Acid Enhancement and Adduct Identification with the Assistance of Competitive Stereodifferentiating Iodolactonization and Iodosulfonization Reactions. <i>Journal of Organic Chemistry</i> , 1999, 64, 8138-8143.	3.2	7
65	Evaluation of ethyl 2-carbomethoxyethanesulfonates as 2-hydroxymethyl enethiol equivalents in the Diels-Alder reaction. <i>Tetrahedron</i> , 2005, 61, 1115-1125.	1.9	7
66	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. <i>Journal of Electroanalytical Chemistry</i> , 2017, 793, 203-208.	3.8	7
67	Origins and applications of stereoselective sulfenate anion alkylation reactions. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2019, 194, 692-697.	1.6	7
68	A convenient synthesis of $^{13}C_4$ -Leflunomide and its primary metabolite $^{13}C_4$ -A77 1726. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2003, 46, 613-622.	1.0	6
69	Stereospecific Grignard reactions of cholesteryl 1-alkenesulfinate esters: Application of the Andersen Protocol to the preparation of non-racemic \hat{I}_{\pm}, \hat{I}^2 -unsaturated sulfoxides. <i>Canadian Journal of Chemistry</i> , 2003, 81, 423-430.	1.1	6
70	Binding of a Monoclonal Antibody to the Phospholamban Cytoplasmic Domain Interferes with the Channel Activity of Phospholamban Reconstituted in a Tethered Bilayer Lipid Membrane. <i>Langmuir</i> , 2014, 30, 10384-10388.	3.5	6
71	A Computational Determination of the Origins of Diastereoselective Alkylations of a Cysteinesulfenate Anion. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 519-526.	2.4	6
72	The one-pot generation and ring opening of alkyl and aryl thiirane-S-oxides. <i>Tetrahedron Letters</i> , 1992, 33, 5897-5900.	1.4	5

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73	Synthesis and characterization of homochiral cholesteryl 1-alkenesulfinate esters. <i>Tetrahedron: Asymmetry</i> , 2000, 11, 4843-4852.	1.8	4
74	A Microwave-Assisted Synthesis of (S)-N-Protected Homoserine $\hat{\beta}$ -Lactones from L-Aspartic Acid. <i>Journal of Organic Chemistry</i> , 2011, 76, 6825-6831.	3.2	4
75	A mechanistic study of oxygen atom transfer from N-sulfonyloxaziridine to enolates. <i>Tetrahedron</i> , 2019, 75, 2056-2061.	1.9	4
76	The reaction of thiolates with 2,3-dibromo-1-propanol revisited: application to the synthesis of bis(fattyalkylthio)propanols. <i>Chemistry and Physics of Lipids</i> , 1999, 101, 215-222.	3.2	3
77	Synthesis of sulfur-containing glycerophospholipids. <i>Journal of Sulfur Chemistry</i> , 2007, 28, 45-72.	2.0	3
78	Unexpected reactions of Grignard reagents with selected $\hat{\beta}$ -carboalkoxy substituted sulfinate esters. <i>Canadian Journal of Chemistry</i> , 2015, 93, 37-43.	1.1	3
79	Introducing the Diels-Alder Reactivity of 2-Furanmethanethiol with Selected Maleic Acid Derivatives. <i>Heterocycles</i> , 2014, 88, 1603.	0.7	3
80	The reactions of a 1-alkenesulfenate anion with TMS-X reagents; a variable temperature NMR study. <i>Canadian Journal of Chemistry</i> , 1998, 76, 213-220.	1.1	3
81	A DFT examination of the role of proximal boron functionalities in the <i>S</i> -alkylation of sulfenic acid anions. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 649-657.	2.8	3
82	Preparation and Reactions of Substituted Ethenesulfenate Anions. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1994, 95, 327-328.	1.6	2
83	A BF ₃ -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. <i>Synlett</i> , 2006, 2006, 3115-3119.	1.8	2
84	The preparation of three new partially deuterated hexadecanethiols for applications in surface chemistry. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2008, 51, 391-398.	1.0	2
85	The base-mediated cyclization of selected benzyl alkynyl sulfones with aromatic aldehydes: novel synthetic access to aryl-substituted 5,6-dihydro-1,4-oxathiin <i>S,S</i> -dioxides. <i>Journal of Sulfur Chemistry</i> , 2013, 34, 79-87.	2.0	2
86	Triclinic modification of N-[(1,1-dimethylethoxy)carbonyl]-3-[(R)-prop-2-en-1-ylsulfinyl]-(R)-alanine ethyl ester at 120 K. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2009, 65, o1387-o1387.	0.2	2
87	Monoclinic modification of N-[(1,1-dimethylethoxy)carbonyl]-3-[(R)-prop-2-en-1-ylsulfinyl]-(R)-alanine ethyl ester at 200 K. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2009, 65, o1385-o1386.	0.2	2
88	N-Sulfanylimides as the Sulfur Source for Alkyl Allenyl Sulfoxides via [2,3]- σ -Sigmatropic Rearrangement. <i>ChemistrySelect</i> , 2021, 6, 11331-11336.	1.5	2
89	Determination of the ¹ H NMR chemical shift substituent parameters for the sulfinyl chloride and sulfinate ester functionalities. <i>Journal of Sulfur Chemistry</i> , 2004, 25, 29-37.	2.0	1
90	$\hat{\beta}$ -Sulfinyl Acrylate Esters as a Convenient Source of Alkane- and Arenesulfenate Anions. <i>ChemInform</i> , 2003, 34, no.	0.0	0

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91	Palladium Catalyzed Cross-Coupling Reactions for Phosphorus-Carbon Bond Formation. ChemInform, 2004, 35, no.	0.0	0
92	Generation, Structure, and Reactions of Sulfenic Acid Anions. ChemInform, 2004, 35, no.	0.0	0
93	Evaluation of Ethyl 2-Carbomethoxyethenesulfonates as 2-Hydroxymethyl Enethiol Equivalents in the Diels-Alder Reaction.. ChemInform, 2005, 36, no.	0.0	0
94	Evaluation of Ethyl 2-Carbomethoxyethenesulfonates as 2-Hydroxymethyl Enethiol Equivalents in the Diels-Alder Reaction.. ChemInform, 2005, 36, no.	0.0	0
95	Bis(2-bromobenzyl) trisulfide. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o361-o361.	0.2	0