

Carl H Schiesser

List of Publications by Year in descending order

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186265

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citing authors

#	ARTICLE	IF	CITATIONS
1	Regio- and stereo-selectivity of alkenyl radical ring closure: A theoretical study. <i>Tetrahedron</i> , 1985, 41, 3925-3941.	1.9	686
2	Free-radical homolytic substitution: New methods for formation of bonds to heteroatoms. <i>Tetrahedron</i> , 1996, 52, 13265-13314.	1.9	147
3	Radicals Masquerading as Electrophiles: Dual Orbital Effects in Nitrogen-Philic Acyl Radical Cyclization and Related Addition Reactions. <i>Accounts of Chemical Research</i> , 2007, 40, 303-313.	15.6	136
4	(Aryltelluro)formates as Precursors of Alkyl Radicals: Thermolysis and Photolysis of Primary and Secondary Alkyl (Aryltelluro)formates. <i>Journal of Organic Chemistry</i> , 1996, 61, 5754-5761.	3.2	101
5	Reactivity of disulfide bonds is markedly affected by structure and environment: implications for protein modification and stability. <i>Scientific Reports</i> , 2016, 6, 38572.	3.3	101
6	Free-radical homolytic substitution at selenium: an efficient method for the preparation of selenophenes. <i>Journal of Organic Chemistry</i> , 1993, 58, 5632-5638.	3.2	78
7	Intramolecular Homolytic Substitution with Amidyl Radicals: A Free-Radical Synthesis of Ebselen and Related Analogues. <i>Journal of Organic Chemistry</i> , 1997, 62, 3103-3108.	3.2	68
8	Tandem free-radical addition/substitution chemistry and its application to the preparation of novel AT ₁ receptor antagonists. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 473-479.	2.8	62
9	Intramolecular Homolytic Substitution at Selenium: Synthesis of Novel Selenium-Containing Vitamin E Analogues. <i>Journal of Organic Chemistry</i> , 2001, 66, 6286-6290.	3.2	56
10	Oxidation of Low-Density Lipoproteins Induces Amyloid-like Structures That Are Recognized by Macrophages. <i>Biochemistry</i> , 2005, 44, 9108-9116.	2.5	55
11	Homolytic substitution at selenium: ring closure of α -(benzylseleno)alkyl radicals. <i>Tetrahedron</i> , 1993, 49, 2557-2566.	1.9	54
12	On the existence of SH ₃ , SeH ₃ , and TeH ₃ : Discrepancies between all-electron and pseudopotential calculations. <i>Journal of Computational Chemistry</i> , 1995, 16, 1055-1066.	3.3	54
13	Selenosartans: Novel selenophene analogues of milfasartan and eprosartan. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 1241-1244.	2.2	54
14	Unexpected Leaving Ability of (Phenyltelluro)formates in the Presence of Internal Nucleophiles: Complications during Alkyl and Oxyacyl Radical Generation in the Preparation of Sulfur- and Selenium-Containing Heterocycles. <i>Journal of Organic Chemistry</i> , 1998, 63, 3032-3036.	3.2	51
15	Preparation of 5-Selenopentopyranose Sugars from Pentose Starting Materials by Samarium(II) Iodide or (Phenylseleno)formate Mediated Ring Closures. <i>Tetrahedron</i> , 2000, 56, 3995-4000.	1.9	49
16	Intramolecular Homolytic Substitution Chemistry: An ab Initio Study of 1,n-Chalcogenyl Group Transfer and Cyclization Reactions in Some α -Chalcogenylalkyl Radicals. <i>Journal of Organic Chemistry</i> , 1999, 64, 1131-1139.	3.2	45
17	On the stability of 2-aminoselenophene-3-carboxylates: potential dual-acting selenium-containing allosteric enhancers of A ₁ adenosine receptor binding. <i>Organic and Biomolecular Chemistry</i> , 2007, 5, 1276.	2.8	43
18	Taming the free radical shrew ? learning to control homolytic reactions at higher heteroatoms. <i>Chemical Communications</i> , 2006, , 4055.	4.1	40

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19	Homolytic substitution at selenium: A convenient synthesis of benzoselenophenes. <i>Tetrahedron Letters</i> , 1992, 33, 5137-5140.	1.4	38
20	Structure-activity relationships of adenosines with heterocyclic N6-substituents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007, 17, 6779-6784.	2.2	38
21	Organostannanes Derived from (âˆ“)âˆ“)-Menthol: Controlling Stereochemistry during the Preparation of (1R,2S,5R)-Menthyl-diphenyltin Hydride and Bis((1R,2S,5R)-menthyl)phenyltin Hydride. <i>Organometallics</i> , 1999, 18, 3342-3347.	2.3	37
22	Free Radical Homolytic Substitution by the Frontside Mechanism: Ab Initio Study of Homolytic Substitution Reactions at Silicon, Germanium, and Tin. <i>Organometallics</i> , 2000, 19, 1239-1246.	2.3	37
23	Preparation of novel selenapenam and selenacephem by nucleophilic and radical chemistry involving benzyl selenides. <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 2612.	2.8	36
24	Homolytic substitution by iminyl radical at selenium: A free-radical route to 1,2-benzoselenazoles. <i>Tetrahedron Letters</i> , 1993, 34, 4347-4348.	1.4	33
25	Preventing Protein Oxidation with Sugars: Scavenging of Hypohalous Acids by 5-Selenopyranose and 4-Selenofuranose Derivatives. <i>Chemical Research in Toxicology</i> , 2012, 25, 2589-2599.	3.3	33
26	Synthesis and antioxidant capacity of 5-selenopyranose derivatives. <i>Chemical Communications</i> , 2011, 47, 9693.	4.1	31
27	An electron spin resonance study of the 2,5-diphenylchalcophene radical ions. <i>Journal of Organometallic Chemistry</i> , 1990, 389, 301-313.	1.8	29
28	Catalytic oxidant scavenging by selenium-containing compounds: Reduction of selenoxides and N-chloramines by thiols and redox enzymes. <i>Redox Biology</i> , 2017, 12, 872-882.	9.0	29
29	Kinetics of reaction of peroxyxynitrite with selenium- and sulfur-containing compounds: Absolute rate constants and assessment of biological significance. <i>Free Radical Biology and Medicine</i> , 2015, 89, 1049-1056.	2.9	28
30	Selenium dioxide-promoted selective synthesis of mono- and bis-sulfenylindoles. <i>Organic Chemistry Frontiers</i> , 2018, 5, 1983-1991.	4.5	28
31	Intramolecular homolytic substitution at tellurium: Preparation of a dihydrotellurophene by alkyltelluride-mediated SRN1/SHi reactions. <i>Tetrahedron Letters</i> , 1997, 38, 8429-8432.	1.4	27
32	Understanding (the lack of) homolytic substitution chemistry of sulfones. <i>Chemical Communications</i> , 2012, 48, 8326.	4.1	27
33	Palladium-Mediated Reactions of Chloroformates with Phenylselenotris(trimethylsilyl)silane and Aryltellurotris(trimethylsilyl)silane: Improved Procedure for the Preparation of (Phenylseleno)- and (Aryltelluro)formates. <i>Journal of Organic Chemistry</i> , 1998, 63, 5713-5715.	3.2	26
34	Unexpected dual orbital effects in radical addition reactions involving acyl, silyl and related radicals. <i>Chemical Communications</i> , 2006, , 1067.	4.1	26
35	1,4-Anhydro-4-seleno-d-talitol (SeTal) protects endothelial function in the mouse aorta by scavenging superoxide radicals under conditions of acute oxidative stress. <i>Biochemical Pharmacology</i> , 2017, 128, 34-45.	4.4	25
36	Reactivity of selenium-containing compounds with myeloperoxidase-derived chlorinating oxidants: Second-order rate constants and implications for biological damage. <i>Free Radical Biology and Medicine</i> , 2015, 84, 279-288.	2.9	22

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37	Treasures from the Free Radical Renaissance Period – Miscellaneous hexenyl radical kinetic data. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 1736-1743.	2.8	21
38	1,4-Anhydro-4-seleno-d-talitol (SeTal): a remarkable selenium-containing therapeutic molecule. <i>New Journal of Chemistry</i> , 2019, 43, 9759-9765.	2.8	21
39	Intramolecular Homolytic Translocation Chemistry: An ab Initio Study of 1,n-Halogen Atom Transfer Reactions in Some α -Haloalkyl Radicals. <i>Journal of Organic Chemistry</i> , 1998, 63, 670-676.	3.2	20
40	An ab initio and DFT study of homolytic substitution reactions of acyl radicals at sulfur, selenium, and tellurium. <i>New Journal of Chemistry</i> , 2010, 34, 1692.	2.8	20
41	Preparation of 2,3-dihydro-selenolo[2,3-b]pyridines and related compounds by free-radical means. <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 466-474.	2.8	18
42	Synthesis of chiral organotin hydrides containing menthyl and oxazoline substituents. <i>Dalton Transactions RSC</i> , 2000, , 3693-3698.	2.3	15
43	Selenochromanes via tandem homolytic addition/substitution chemistry. <i>Chemical Communications</i> , 2010, 46, 565-567.	4.1	14
44	Toward Pyridine-Fused Selenium-Containing Antioxidants. <i>Molecules</i> , 2004, 9, 472-479.	3.8	13
45	Rate coefficients for intramolecular homolytic substitution of oxyacyl radicals at selenium. <i>International Journal of Chemical Kinetics</i> , 2012, 44, 51-58.	1.6	13
46	Synthesis and antioxidant capacity of novel stable 5-tellurofuranose derivatives. <i>Chemical Communications</i> , 2018, 54, 2990-2993.	4.1	12
47	7-Selenabicyclo[2.2.1]heptane. <i>Chemical Communications</i> , 2012, 48, 9126.	4.1	11
48	Steric trends and kinetic parameters for radical reductions involving alkyl-diphenyltin hydrides. <i>Journal of Physical Organic Chemistry</i> , 1999, 12, 233-239.	1.9	10
49	Polysilane and related radical rearrangements: an ab initio study of (1,2)-silyl, germyl and stannyl translocations in radicals derived from trisilanes and related species. <i>Perkin Transactions II RSC</i> , 2001, , 939-945.	1.1	10
50	The kinetics of alkyl radical ring closures at selenium: formation of selenane. <i>Organic Chemistry Frontiers</i> , 2014, 1, 645-651.	4.5	10
51	Dual action molecules: Bioassays of combined novel antioxidants and angiotensin II receptor antagonists. <i>European Journal of Pharmacology</i> , 2012, 695, 96-103.	3.5	9
52	Effects of a novel selenium substituted-sugar (1,4-anhydro-4-seleno-d-talitol, SeTal) on human coronary artery cell lines and mouse aortic rings. <i>Biochemical Pharmacology</i> , 2020, 173, 113631.	4.4	9
53	Carbon-Silicon Hyperconjugation and Strain-Enhanced Hyperconjugation: Structures of N-Methyl 2- and 4-tert-Butyldimethylsilylmethyl Pyridinium Cations. <i>Organometallics</i> , 2007, 26, 1361-1364.	2.3	7
54	The effect of leaving radical on the formation of tetrahydro-selenophene by S-H ring closure: an experimental and computational study. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 2310-2316.	2.8	7

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55	Fluorescent Angiotensin AT ₁ Receptor Antagonists. Asian Journal of Organic Chemistry, 2012, 1, 274-279.	2.7	6
56	Suppressive effect of 1,4-anhydro-4-seleno-D-talitol (SeTal) on atopic dermatitis-like skin lesions in mice through regulation of inflammatory mediators. Journal of Trace Elements in Medicine and Biology, 2021, 67, 126795.	3.0	6
57	Rate Coefficients for Intramolecular Homolytic Substitution of Oxyacyl Radicals at Sulfur. Australian Journal of Chemistry, 2013, 66, 323.	0.9	5
58	Slow homolytic substitution reactions at selenium: 2-Selenabicyclo[1.1.1]pentane. Computational and Theoretical Chemistry, 2015, 1068, 128-133.	2.5	4
59	Synthetic Uses of R ₃ MH (M = Ge, Sn, Pb). , 0, , 1401-1483.		3
60	The quest for selenocycles: From an ESR spectrum to a commercial product. Journal of Chemical Research, 2022, 46, 174751982210895.	1.3	2
61	A simple model of the hydrophobic effect for molecular simulation of interfacial phenomena. Molecular Simulation, 2002, 28, 791-806.	2.0	1
62	Radical Cyclisation of $\hat{\text{I}}^{\pm}\text{Halo}$ Aluminium Acetals: A Mechanistic Study. Chemistry - A European Journal, 2016, 22, 4809-4824.	3.3	1
63	Intramolecular homolytic substitution in selenoxides and selenones. Tetrahedron, 2016, 72, 7790-7795.	1.9	1
64	Semisynthetic bioactive organoselenium and organotellurium compounds. , 2022, , 253-289.		1
65	Art for bugs: $\hat{\text{C}}^{\text{cultured}}\hat{\text{C}}^{\text{TM}}$ microorganisms. AICCM Bulletin, 2013, 34, 102-111.	0.1	0