Carl H Schiesser

List of Publications by Year
in descending order

65	2,702	185998 28	182168 51
papers	citations	h-index	g-index

67	67	67	1565
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The quest for selenocycles: From an ESR spectrum to a commercial product. Journal of Chemical Research, 2022, 46, 174751982210895.	0.6	2
2	Semisynthetic bioactive organoselenium and organotellurium compounds. , 2022, , 253-289.		1
3	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.	1.5	6
4	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. Biochemical Pharmacology, 2020, 173, 113631.	2.0	9
5	1,4-Anhydro-4-seleno-d-talitol (SeTal): a remarkable selenium-containing therapeutic molecule. New Journal of Chemistry, 2019, 43, 9759-9765.	1.4	21
6	Synthesis and antioxidant capacity of novel stable 5-tellurofuranose derivatives. Chemical Communications, 2018, 54, 2990-2993.	2.2	12
7	Selenium dioxide-promoted selective synthesis of mono- and bis-sulfenylindoles. Organic Chemistry Frontiers, 2018, 5, 1983-1991.	2.3	28
8	Catalytic oxidant scavenging by selenium-containing compounds: Reduction of selenoxides and N-chloramines by thiols and redox enzymes. Redox Biology, 2017, 12, 872-882.	3.9	29
9	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. Biochemical Pharmacology, 2017, 128, 34-45.	2.0	25
10	Radical Cyclisation of Î±â€Halo Aluminium Acetals: A Mechanistic Study. Chemistry - A European Journal, 2016, 22, 4809-4824.	1.7	1
11	Reactivity of disulfide bonds is markedly affected by structure and environment: implications for protein modification and stability. Scientific Reports, 2016, 6, 38572.	1.6	101
12	Intramolecular homolytic substitution in selenoxides and selenones. Tetrahedron, 2016, 72, 7790-7795.	1.0	1
13	Slow homolytic substitution reactions at selenium: 2-Selenabicyclo[1.1.1]pentane. Computational and Theoretical Chemistry, 2015, 1068, 128-133.	1.1	4
14	The effect of leaving radical on the formation of tetrahydroselenophene by S_Hi ring closure: an experimental and computational study. Organic and Biomolecular Chemistry, 2015, 13, 2310-2316.	1.5	7
15	Reactivity of selenium-containing compounds with myeloperoxidase-derived chlorinating oxidants: Second-order rate constants and implications for biological damage. Free Radical Biology and Medicine, 2015, 84, 279-288.	1.3	22
16	Kinetics of reaction of peroxynitrite with selenium- and sulfur-containing compounds: Absolute rate constants and assessment of biological significance. Free Radical Biology and Medicine, 2015, 89, 1049-1056.	1.3	28
17	The kinetics of alkyl radical ring closures at selenium: formation of selenane. Organic Chemistry Frontiers, 2014, 1, 645-651.	2.3	10
18	Rate Coefficients for Intramolecular Homolytic Substitution of Oxyacyl Radicals at Sulfur. Australian Journal of Chemistry, 2013, 66, 323.	0.5	5

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19	Art for bugs: â€˜culturedâ€™ microorganisms. AICCM Bulletin, 2013, 34, 102-111.	0.1	0
20	Preventing Protein Oxidation with Sugars: Scavenging of Hypohalous Acids by 5-Selenopyranose and 4-Selenofuranose Derivatives. Chemical Research in Toxicology, 2012, 25, 2589-2599.	1.7	33
21	Understanding (the lack of) homolytic substitution chemistry of sulfones. Chemical Communications, 2012, 48, 8326.	2.2	27
22	Fluorescent Angiotensin AT₁ Receptor Antagonists. Asian Journal of Organic Chemistry, 2012, 1, 274-279.	1.3	6
23	Dual action molecules: Bioassays of combined novel antioxidants and angiotensin II receptor antagonists. European Journal of Pharmacology, 2012, 695, 96-103.	1.7	9
24	7-Selenabicyclo[2.2.1]heptane. Chemical Communications, 2012, 48, 9126.	2.2	11
25	Rate coefficients for intramolecular homolytic substitution of oxyacyl radicals at selenium. International Journal of Chemical Kinetics, 2012, 44, 51-58.	1.0	13
26	Synthesis and antioxidant capacity of 5-selenopyranose derivatives. Chemical Communications, 2011, 47, 9693.	2.2	31
27	Treasures from the Free Radical Renaissance Period â€“ Miscellaneous hexenyl radical kinetic data. Organic and Biomolecular Chemistry, 2011, 9, 1736-1743.	1.5	21
28	Tandem free-radical addition/substitution chemistry and its application to the preparation of novel AT₁receptor antagonists. Organic and Biomolecular Chemistry, 2011, 9, 473-479.	1.5	62
29	An ab initio and DFT study of homolytic substitution reactions of acyl radicals at sulfur, selenium, and tellurium. New Journal of Chemistry, 2010, 34, 1692.	1.4	20
30	Selenochromanes via tandem homolytic addition/substitution chemistry. Chemical Communications, 2010, 46, 565-567.	2.2	14
31	Selenosartans: Novel selenophene analogues of milfasartan and eprosartan. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 1241-1244.	1.0	54
32	On the stability of 2-aminoselenophene-3-carboxylates: potential dual-acting selenium-containing allosteric enhancers of A1 adenosine receptor binding. Organic and Biomolecular Chemistry, 2007, 5, 1276.	1.5	43
33	Radicals Masquerading as Electrophiles: Dual Orbital Effects in Nitrogen-Philic Acyl Radical Cyclization and Related Addition Reactions. Accounts of Chemical Research, 2007, 40, 303-313.	7.6	136
34	Carbonâ^'Silicon Hyperconjugation and Strain-Enhanced Hyperconjugation:â€‰ Structures of N-Methyl 2- and 4-tert-Butyldimethylsilylmethyl Pyridinium Cations. Organometallics, 2007, 26, 1361-1364.	1.1	7
35	Structureâ€“activity relationships of adenosines with heterocyclic N6-substituents. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 6779-6784.	1.0	38
36	Taming the free radical shrew ? learning to control homolytic reactions at higher heteroatoms. Chemical Communications, 2006, , 4055.	2.2	40

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37	Preparation of 2,3-dihydroselenolo[2,3-b]pyridines and related compounds by free-radical means. Organic and Biomolecular Chemistry, 2006, 4, 466-474.	1.5	18
38	Unexpected dual orbital effects in radical addition reactions involving acyl, silyl and related radicals. Chemical Communications, 2006, , 1067.	2.2	26
39	Oxidation of Low-Density Lipoproteins Induces Amyloid-like Structures That Are Recognized by Macrophages. Biochemistry, 2005, 44, 9108-9116.	1.2	55
40	Preparation of novel selenapenams and selenacephems by nucleophilic and radical chemistry involving benzyl selenides. Organic and Biomolecular Chemistry, 2004, 2, 2612.	1.5	36
41	Toward Pyridine-Fused Selenium-Containing Antioxidants. Molecules, 2004, 9, 472-479.	1.7	13
42	A simple model of the hydrophobic effect for molecular simulation of interfacial phenomena. Molecular Simulation, 2002, 28, 791-806.	0.9	1
43	Intramolecular Homolytic Substitution at Selenium:â€‰ Synthesis of Novel Selenium-Containing Vitamin E Analogues. Journal of Organic Chemistry, 2001, 66, 6286-6290.	1.7	56
44	Polysilane and related radical rearrangements: an ab initio study of (1,2)-silyl, germyl and stannyl translocations in radicals derived from trisilanes and related speciesâ€. Perkin Transactions II RSC, 2001, , 939-945.	1.1	10
45	Preparation of 5-Selenopentopyranose Sugars from Pentose Starting Materials by Samarium(II) Iodide or (Phenylseleno)formate Mediated Ring Closures. Tetrahedron, 2000, 56, 3995-4000.	1.0	49
46	Synthesis of chiral organotin hydrides containing menthyl and oxazoline substituentsâ€. Dalton Transactions RSC, 2000, , 3693-3698.	2.3	15
47	Free Radical Homolytic Substitution by the Frontside Mechanism:Â Ab Initio Study of Homolytic Substitution Reactions at Silicon, Germanium, and Tin. Organometallics, 2000, 19, 1239-1246.	1.1	37
48	Steric trends and kinetic parameters for radical reductions involving alkyldiphenyltin hydrides. Journal of Physical Organic Chemistry, 1999, 12, 233-239.	0.9	10
49	Organostannanes Derived from (â^')-Menthol:â€‰ Controlling Stereochemistry during the Preparation of (1R,2S,5R)-Menthyldiphenyltin Hydride and Bis((1R,2S,5R)-menthyl)phenyltin Hydride. Organometallics, 1999, 18, 3342-3347.	1.1	37
50	Intramolecular Homolytic Substitution Chemistry:Â An ab Initio Study of 1,n-Chalcogenyl Group Transfer and Cyclization Reactions in Some Ï‰-Chalcogenylalkyl Radicals. Journal of Organic Chemistry, 1999, 64, 1131-1139.	1.7	45
51	Palladium-Mediated Reactions of Chloroformates with Phenylselenotris(trimethylsilyl)silane and Aryltellurotris(trimethylsilyl)silane:Â Improved Procedure for the Preparation of (Phenylseleno)- and (Aryltelluro)formates. Journal of Organic Chemistry, 1998, 63, 5713-5715.	1.7	26
52	Intramolecular Homolytic Translocation Chemistry:Â An ab Initio Study of 1,n-Halogen Atom Transfer Reactions in Some Ï‰-Haloalkyl Radicals. Journal of Organic Chemistry, 1998, 63, 670-676.	1.7	20
53	Unexpected Leaving Ability of (Phenyltelluro)formates in the Presence of Internal Nucleophiles:â€‰ Complications during Alkyl and Oxyacyl Radical Generation in the Preparation of Sulfur- and Selenium-Containing Heterocycles. Journal of Organic Chemistry, 1998, 63, 3032-3036.	1.7	51
54	Intramolecular Homolytic Substitution with Amidyl Radicals:Â A Free-Radical Synthesis of Ebselen and Related Analogues. Journal of Organic Chemistry, 1997, 62, 3103-3108.	1.7	68

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55	Intramolecular homolytic substitution at tellurium: Preparation of a dihydrotellurophene by alkyltelluride-mediated SRN1/SHi reactions. Tetrahedron Letters, 1997, 38, 8429-8432.	0.7	27
56	(Aryltelluro)formates as Precursors of Alkyl Radicals:Â Thermolysis and Photolysis of Primary and Secondary Alkyl (Aryltelluro)formates. Journal of Organic Chemistry, 1996, 61, 5754-5761.	1.7	101
57	Free-radical homolytic substitution: New methods for formation of bonds to heteroatoms. Tetrahedron, 1996, 52, 13265-13314.	1.0	147
58	On the existence of SH3, SeH3, and TeH3: Discrepancies between all-electron and pseudopotential calculations. Journal of Computational Chemistry, 1995, 16, 1055-1066.	1.5	54
59	Homolytic substitution at selenium: ring closure of Ï‰-(benzylseleno)alkyl radicals. Tetrahedron, 1993, 49, 2557-2566.	1.0	54
60	Homolytic substitution by iminyl radical at selenium: A free-radical route to 1,2-benzoselenazoles. Tetrahedron Letters, 1993, 34, 4347-4348.	0.7	33
61	Free-radical homolytic substitution at selenium: an efficient method for the preparation of selenophenes. Journal of Organic Chemistry, 1993, 58, 5632-5638.	1.7	78
62	Homolytic substitution at selenium: A convenient synthesis of benzoselenophenes. Tetrahedron Letters, 1992, 33, 5137-5140.	0.7	38
63	An electron spin resonance study of the 2,5-diphenylchalcophene radical ions. Journal of Organometallic Chemistry, 1990, 389, 301-313.	0.8	29
64	Regio- and stereo-selectivity of alkenyl radical ring closure: A theoretical study. Tetrahedron, 1985, 41, 3925-3941.	1.0	686
65	Synthetic Uses of R3MH (M = Ge, Sn, Pb). , 0, , 1401-1483.		3