

Uta Wille

List of Publications by Year in descending order

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79
papers

2,204
citations

304602

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docs citations

81
times ranked

2394
citing authors

#	ARTICLE	IF	CITATIONS
1	Radical Cascades Initiated by Intermolecular Radical Addition to Alkynes and Related Triple Bond Systems. <i>Chemical Reviews</i> , 2013, 113, 813-853.	23.0	540
2	Self-Terminating, Oxidative Radical Cyclizations: A Novel Reaction of Acyloxyl Radicals. <i>Journal of the American Chemical Society</i> , 2002, 124, 14-15.	6.6	176
3	Affinity profiles of morphine, codeine, dihydrocodeine and their glucuronides at opioid receptor subtypes. <i>Life Sciences</i> , 1995, 56, 793-799.	2.0	151
4	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.	7.6	136
5	Total Synthesis of Mycrocyclosin. <i>Organic Letters</i> , 2012, 14, 2402-2405.	2.4	61
6	Atmospheric Chemistry of Enols: A Theoretical Study of the Vinyl Alcohol + OH + O ₂ Reaction Mechanism. <i>Environmental Science & Technology</i> , 2014, 48, 6694-6701.	4.6	55
7	Conceptual Knowledge Discovery and Data Analysis. <i>Lecture Notes in Computer Science</i> , 2000, , 421-437.	1.0	47
8	Diastereoselective formation of anellated tetrahydrofurans using a nitrate radical induced oxidative, self-terminating radical cyclization cascade. <i>Tetrahedron</i> , 1999, 55, 10119-10134.	1.0	42
9	Sulfate Radical Anions (SO ₄ ^{•-}) as Donor of Atomic Oxygen in Anionic Transannular, Self-Terminating, Oxidative Radical Cyclizations. <i>Organic Letters</i> , 2000, 2, 3485-3488.	2.4	41
10	Activation of molecular oxygen by S-radicals: experimental and computational studies on a novel oxidation of alkynes to α,β -diketones. <i>Chemical Communications</i> , 2008, , 6239.	2.2	41
11	Synthesis of cyclic peptide hemicryptophanes: enantioselective recognition of a chiral zwitterionic guest. <i>Chemical Communications</i> , 2013, 49, 8504.	2.2	41
12	N-Centered Radicals in Self-Terminating Radical Cyclizations: Experimental and Computational Studies. <i>Journal of Organic Chemistry</i> , 2008, 73, 1413-1421.	1.7	32
13	Oxidative Damage of Biomolecules by the Environmental Pollutants NO ₂ [•] and NO ₃ [•] . <i>Accounts of Chemical Research</i> , 2016, 49, 2136-2145.	7.6	32
14	What Are the Potential Sites of Protein Arylation by <i>N</i> -Acetyl- <i>p</i> -benzoquinone Imine (NAPQI)? <i>Chemical Research in Toxicology</i> , 2015, 28, 2224-2233.	1.7	31
15	Amide Neighbouring Group Effects in Peptides: Phenylalanine as Relay Amino Acid in Long Distance Electron Transfer. <i>ChemBioChem</i> , 2018, 19, 922-926.	1.3	29
16	Inorganic Radicals in Organic Synthesis. <i>Chemistry - A European Journal</i> , 2002, 8, 340-347.	1.7	27
17	Mechanistic Insights into NO ₃ [•] -Induced Self-Terminating Radical Oxygenations, Part 1: A Computational Study on NO ₃ [•] and Its Addition to Alkynes. <i>Journal of Physical Chemistry A</i> , 2006, 110, 2195-2203.	1.1	27
18	Transannular Cyclizations of Medium-Sized Cycloalkynes and Cycloalkynones Induced by Electro- and Photochemically Generated NO ₃ Radicals. <i>Liebigs Annalen</i> , 1997, 1997, 111-119.	0.8	26

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19	Unexpected dual orbital effects in radical addition reactions involving acyl, silyl and related radicals. <i>Chemical Communications</i> , 2006, , 1067.	2.2	26
20	Oxidative Cleavage of a Cyclobutane Pyrimidine Dimer by Photochemically Generated Nitrate Radicals (NO ₃ •). <i>Organic Letters</i> , 2001, 3, 1455-1458.	2.4	25
21	Stereoselection in 5-exo radical cyclizations of polysubstituted 2-oxahex-5-enyl radicals: A systematic study of the combination substituent effect. <i>Tetrahedron</i> , 1999, 55, 11465-11474.	1.0	24
22	Dissociative electron transfer to and from pyrimidine cyclobutane dimers: An electrochemical study. <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 2742-2750.	1.5	23
23	Damage of aromatic amino acids by the atmospheric free radical oxidant NO ₃ •™ in the presence of NO ₂ •™, N ₂ O ₄ , O ₃ and O ₂ . <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 3380.	1.5	23
24	Reversible Photoisomerization of the Isolated Green Fluorescent Protein Chromophore. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2647-2651.	2.1	23
25	Ring Expansion of Thiolactams via Imide Intermediates: An Amino Acid Insertion Strategy. <i>Chemistry - A European Journal</i> , 2021, 27, 1620-1625.	1.7	23
26	Oxidative damage of aromatic dipeptides by the environmental oxidants NO ₂ •™ and O ₃ . <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 8280-8287.	1.5	22
27	Can the night-time atmospheric oxidant NO ₃ •™ damage aromatic amino acids?. <i>Chemical Communications</i> , 2008, , 2121.	2.2	21
28	Nitrate Radical Induced Oxidative, Self-terminating Radical Cyclization Cascades: Improvement of Yield Using a Photochemical Radical Source. <i>Heterocycles</i> , 2001, 55, 377.	0.4	21
29	Radical oxygenations with inorganic radicals: can hydroxyl radicals (HO•) act as donors of oxygen atoms?. <i>Tetrahedron Letters</i> , 2002, 43, 1239-1242.	0.7	20
30	Oxidation of Aromatic Alkynes with Nitrate Radicals (NO ₃ •): An Experimental and Computational Study on a Synthetically Highly Versatile Radical. <i>Australian Journal of Chemistry</i> , 2007, 60, 420.	0.5	20
31	A Theoretical Study of the Photoisomerization of Glycolaldehyde and Subsequent OH Radical-Initiated Oxidation of 1,2-Ethenediol. <i>Journal of Physical Chemistry A</i> , 2015, 119, 9812-9820.	1.1	20
32	Synthesis of Bridged Heterocycles via Sequential 1,4- and 1,2-Addition Reactions to $\hat{1},\hat{1}^2$ -Unsaturated $\langle i \rangle N \langle /i \rangle$ -Acyliminium Ions: Mechanistic and Computational Studies. <i>Journal of Organic Chemistry</i> , 2016, 81, 1434-1449.	1.7	20
33	Self-Terminating Radical Oxygenations: Probing of the Scope of the Concept by Use of Various Organic O-Centered Radicals. <i>European Journal of Organic Chemistry</i> , 2003, 2003, 3173-3178.	1.2	19
34	A Computational Study of Multicomponent Orbital Interactions during the Cyclization of Silyl, Germyl, and Stannyl Radicals onto C ^α -N and C ^α -O Multiple Bonds. <i>Journal of Organic Chemistry</i> , 2008, 73, 5821-5830.	1.7	19
35	Radical Addition of N-Bromophthalimide to Linear and Cyclic Alkynes. <i>European Journal of Organic Chemistry</i> , 1999, 1999, 3185-3189.	1.2	15
36	NO ₃ • Induced Self-Terminating Radical Oxygenations: Diastereoselective Synthesis of Anellated Pyrrolidines. <i>Australian Journal of Chemistry</i> , 2004, 57, 1055.	0.5	15

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37	Self-terminating, oxidative radical cyclizations of medium-sized cycloalkynones with inorganic and organic oxygen-centered radicals of type $XO\ddot{E}^{\text{TM}}$: the reaction pathway depends on the nature of X. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2002, , 1036-1041.	1.3	14
38	Self-Terminating, Oxidative Radical Cyclizations. <i>Molecules</i> , 2004, 9, 480-497.	1.7	14
39	Computational Study on the 1,2-Rearrangement in \hat{I}^2 -(Nitroxy)vinyl and \hat{I}^2 -(Acetoxy)vinyl Radicals. <i>Journal of Organic Chemistry</i> , 2006, 71, 4040-4048.	1.7	14
40	Oxidative Damage in Aliphatic Amino Acids and Di- and Tripeptides by the Environmental Free Radical Oxidant NO_3^{\cdot} : The Role of the Amide Bond Revealed by Kinetic and Computational Studies. <i>Journal of Organic Chemistry</i> , 2019, 84, 3405-3418.	1.7	14
41	Reaction of Amino Acids, Di- and Tripeptides with the Environmental Oxidant NO_3^{\cdot} : A Laser Flash Photolysis and Computational Study. <i>Chemistry - an Asian Journal</i> , 2016, 11, 3188-3195.	1.7	13
42	Substituted 1,2,3-triazoles: a new class of nitrification inhibitors. <i>Scientific Reports</i> , 2021, 11, 14980.	1.6	13
43	Self-Terminating Radical Cyclizations: How Are Thiyl Radicals Performing?. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 4902-4911.	1.2	12
44	Perylene-based profluorescent nitroxides for the rapid monitoring of Polyester degradation upon weathering: An assessment. <i>Polymer Degradation and Stability</i> , 2013, 98, 2054-2062.	2.7	12
45	Synthesis of Peptides by Silver-Promoted Coupling of Carboxylates and Thioamides: Mechanistic Insight from Computational Studies. <i>Chemistry - A European Journal</i> , 2016, 22, 3163-3169.	1.7	12
46	1,2-Addition versus homoconjugate addition reactions of indoles and electron-rich arenes to \hat{I}^{\pm} -cyclopropyl N -acyliminium ions: synthetic and computational studies. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 7025-7035.	1.5	12
47	Mass Spectrometric and Computational Studies on the Reaction of Aromatic Peroxyl Radicals with Phenylacetylene Using the Distonic Radical Ion Approach. <i>Journal of Physical Chemistry A</i> , 2014, 118, 3295-3306.	1.1	10
48	Oxidative damage of proline residues by nitrate radicals (NO_3^{\cdot}): a kinetic and product study. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 6949-6957.	1.5	10
49	Reaction of Aromatic Peroxyl Radicals with Alkynes: A Mass Spectrometric and Computational Study Using the Distonic Radical Ion Approach. <i>Chemistry - an Asian Journal</i> , 2013, 8, 450-464.	1.7	9
50	Unimolecular reaction chemistry of a charge-tagged beta-hydroxyperoxyl radical. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 24954-24964.	1.3	9
51	Oxidation of cholesterol and O-protected derivatives by the environmental pollutant NO_2^{\cdot} . <i>Chemical Communications</i> , 2016, 52, 4060-4063.	2.2	9
52	Reactions of a distonic peroxy radical anion influenced by SOMO \rightarrow HOMO conversion: an example of anion-directed channel switching. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2130-2141.	1.3	9
53	Synthesis of spirocyclic heterocycles from \hat{I}^{\pm} , \hat{I}^2 -unsaturated N -acyliminium ions. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 259-272.	1.5	9
54	Polarity-Reversal-Catalyzed Hydrostannylation Reactions: Benzeneselenol-Mediated Homolytic Hydrostannylation of Electron-Rich Olefins. <i>Helvetica Chimica Acta</i> , 2006, 89, 2306-2311.	1.0	8

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55	Fragmentation of Rearrangement of Peptide Backbones Mediated by the Air Pollutant NO ₂ . Chemistry - A European Journal, 2015, 21, 14924-14930.	1.7	8
56	The role of peroxy radicals in polyester degradation – a mass spectrometric product and kinetic study using the distonic radical ion approach. Physical Chemistry Chemical Physics, 2015, 17, 9212-9221.	1.3	8
57	Photoisomerization of Methyl Vinyl Ketone and Methacrolein in the Troposphere: A Theoretical Investigation of Ground-State Reaction Pathways. ACS Earth and Space Chemistry, 2018, 2, 753-763.	1.2	8
58	Degradation of the Nitrification Inhibitor 3,4-Dimethylpyrazole Phosphate in Soils: Indication of Chemical Pathways. ACS Agricultural Science and Technology, 0, , .	1.0	8
59	Nitrate radical reactions: interactions with alkynes. Journal of the Chemical Society, Faraday Transactions, 1991, 87, 2141.	1.7	7
60	Self-terminating radical cyclizations – new insight into the mechanism of the termination step from computational studies. Journal of Physical Organic Chemistry, 2011, 24, 672-681.	0.9	7
61	Photophysical insights and guidelines for blue – fluorescent probes for the direct detection of nitric oxide (NO) in biological systems. Journal of Physical Organic Chemistry, 2019, 32, e3896.	0.9	5
62	Dual Orbital Effects in N-Phylic Cyclizations of Silyl Radicals onto Imines. Chemistry Letters, 2007, 36, 300-301.	0.7	4
63	Oxidative Damage of Thymidines by the Atmospheric Free-Radical Oxidant NO ₃ . Australian Journal of Chemistry, 2011, 64, 833.	0.5	4
64	Reaction mechanisms: radical and radical ion reactions. Annual Reports on the Progress of Chemistry Section B, 2012, 108, 228.	0.8	4
65	Surface modification of coal tailings by thermal air oxidation for ammonia capture. Journal of Cleaner Production, 2022, 362, 132525.	4.6	4
66	Oxidative Damage of Aliphatic Amino Acid Residues by the Environmental Pollutant NO ₃ : Impact of Water on the Reactivity. Environmental Science & Technology, 2022, 56, 7687-7695.	4.6	4
67	Very Low Energy Electrons Transform the Cyclobutane-Pyrimidine Dimer into a Highly Reactive Intermediate. ChemPhysChem, 2010, 11, 561-564.	1.0	3
68	Environmental Polymer Degradation: Using the Distonic Radical Ion Approach to Study the Gas-Phase Reactions of Model Polyester Radicals. Journal of Physical Chemistry A, 2017, 121, 5290-5300.	1.1	3
69	Formation of pyrimidine dimer radical anions in the gas phase. Chemical Communications, 2009, , 7291.	2.2	2
70	Reaction mechanisms: radical and radical ion reactions. Annual Reports on the Progress of Chemistry Section B, 2011, 107, 244.	0.8	2
71	Damage of polyesters by the atmospheric free radical oxidant NO ₃ : a product study involving model systems. Beilstein Journal of Organic Chemistry, 2013, 9, 1907-1916.	1.3	2
72	Oxidative Damage of Pyrimidine Nucleosides by the Environmental Free Radical Oxidant NO ₃ in the Absence and Presence of NO ₂ and Other Radical and Non-Radical Oxidants. Australian Journal of Chemistry, 2012, 65, 427.	0.5	2

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73	Reaction of Distonic Aryl and Alkyl Radical Cations with Amines: The Role of Charge and Spin Revealed by Mass Spectrometry, Kinetic Studies, and DFT Calculations. <i>ChemPlusChem</i> , 2020, 85, 195-206.	1.3	1
74	Oxidative Damage of Sâ€Containing Amino Acids by the Environmental Radical NO ₃ . : A Kinetic, Product and Computational Study. <i>ChemistrySelect</i> , 2021, 6, 4482-4490.	0.7	1
75	Alkoxy Radicals as O-Synthons in Self-Terminating Radical Oxygenations: An Experimental and Theoretical Study. <i>Synthesis</i> , 2005, 2005, 1437-1444.	1.2	0
76	Intermolecular Radical Additions to Alkynes: Cascade-Type Radical Cyclizations. , 0, , 9-41.		0
77	Physical Organic Chemistry. <i>Australian Journal of Chemistry</i> , 2014, 67, 685.	0.5	0
78	Oxidative Repair of Pyrimidine Cyclobutane Dimers by Nitrate Radicals (NO ₃ â€): A Kinetic and Computational Study. <i>Chemistry</i> , 2020, 2, 453-469.	0.9	0
79	Radical Photochemistry. , 2012, , 329-345.		0