Uta Wille

List of Publications by Year
in descending order

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79	2,204	304368	243296
papers	citations	22	44
		h-index	g-index

81	81	81	2394
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Surface modification of coal tailings by thermal air oxidation for ammonia capture. Journal of Cleaner Production, 2022, 362, 132525.	4.6	4
2	Oxidative Damage of Aliphatic Amino Acid Residues by the Environmental Pollutant NO₃^{Â·}: Impact of Water on the Reactivity. Environmental Science & Technology, 2022, 56, 7687-7695.	4.6	4
3	Synthesis of spirocyclic heterocycles from Î±,Î²-unsaturated N-acyliminium ions. Organic and Biomolecular Chemistry, 2021, 19, 259-272.	1.5	9
4	Ring Expansion of Thiolactams via Imide Intermediates: An Amino Acid Insertion Strategy. Chemistry - A European Journal, 2021, 27, 1620-1625.	1.7	23
5	Oxidative Damage of Sâ€Containing Amino Acids by the Environmental Radical NO 3 . : A Kinetic, Product and Computational Study. ChemistrySelect, 2021, 6, 4482-4490.	0.7	1
6	Substituted 1,2,3-triazoles: a new class of nitrification inhibitors. Scientific Reports, 2021, 11, 14980.	1.6	13
7	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. ChemPlusChem, 2020, 85, 195-206.	1.3	1
8	Reactions of a distonic peroxyl radical anion influenced by SOMOâ€“HOMO conversion: an example of anion-directed channel switching. Physical Chemistry Chemical Physics, 2020, 22, 2130-2141.	1.3	9
9	Oxidative damage of proline residues by nitrate radicals (NO₃Ë™): a kinetic and product study. Organic and Biomolecular Chemistry, 2020, 18, 6949-6957.	1.5	10
10	Oxidative Repair of Pyrimidine Cyclobutane Dimers by Nitrate Radicals (NO3â€¢): A Kinetic and Computational Study. Chemistry, 2020, 2, 453-469.	0.9	0
11	1,2-Addition versus homoconjugate addition reactions of indoles and electron-rich arenes to Î±-cyclopropyl N-acyliminium ions: synthetic and computational studies. Organic and Biomolecular Chemistry, 2019, 17, 7025-7035.	1.5	12
12	Oxidative Damage in Aliphatic Amino Acids and Di- and Tripeptides by the Environmental Free Radical Oxidant NO₃^{â€¢}: The Role of the Amide Bond Revealed by Kinetic and Computational Studies. Journal of Organic Chemistry, 2019, 84, 3405-3418.	1.7	14
13	Photophysical insights and guidelines for blue â€œturnâ€onâ€•fluorescent probes for the direct detection of nitric oxide (NO^{â€¢}) in biological systems. Journal of Physical Organic Chemistry, 2019, 32, e3896.	0.9	5
14	Amide Neighbouringâ€Group Effects in Peptides: Phenylalanine as Relay Amino Acid in Longâ€Distance Electron Transfer. ChemBioChem, 2018, 19, 922-926.	1.3	29
15	Reversible Photoisomerization of the Isolated Green Fluorescent Protein Chromophore. Journal of Physical Chemistry Letters, 2018, 9, 2647-2651.	2.1	23
16	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
17	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
18	Synthesis of Peptides by Silverâ€Promoted Coupling of Carboxylates and Thioamides: Mechanistic Insight from Computational Studies. Chemistry - A European Journal, 2016, 22, 3163-3169.	1.7	12

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19	Reaction of Amino Acids, Diâ€•and Tripeptides with the Environmental Oxidant NO₃[.]: A Laser Flash Photolysis and Computational Study. Chemistry - an Asian Journal, 2016, 11, 3188-3195.	1.7	13
20	Oxidative Damage of Biomolecules by the Environmental Pollutants NO₂^{â€¢} and NO₃^{â€¢}. Accounts of Chemical Research, 2016, 49, 2136-2145.	7.6	32
21	Synthesis of Bridged Heterocycles via Sequential 1,4- and 1,2-Addition Reactions to Î±,Î²-Unsaturated N-Acyliminium Ions: Mechanistic and Computational Studies. Journal of Organic Chemistry, 2016, 81, 1434-1449.	1.7	20
22	Oxidation of cholesterol and O-protected derivatives by the environmental pollutant NO₂Ë™. Chemical Communications, 2016, 52, 4060-4063.	2.2	9
23	Fragmentationâ€“Rearrangement of Peptide Backbones Mediated by the Air Pollutant NO₂[.]. Chemistry - A European Journal, 2015, 21, 14924-14930.	1.7	8
24	What Are the Potential Sites of Protein Arylation by N-Acetyl-p-benzoquinone Imine (NAPQI)?. Chemical Research in Toxicology, 2015, 28, 2224-2233.	1.7	31
25	A Theoretical Study of the Photoisomerization of Glycolaldehyde and Subsequent OH Radical-Initiated Oxidation of 1,2-Ethenediol. Journal of Physical Chemistry A, 2015, 119, 9812-9820.	1.1	20
26	The role of peroxyl radicals in polyester degradation â€“ a mass spectrometric product and kinetic study using the distonic radical ion approach. Physical Chemistry Chemical Physics, 2015, 17, 9212-9221.	1.3	8
27	Physical Organic Chemistry. Australian Journal of Chemistry, 2014, 67, 685.	0.5	0
28	Unimolecular reaction chemistry of a charge-tagged beta-hydroxyperoxyl radical. Physical Chemistry Chemical Physics, 2014, 16, 24954-24964.	1.3	9
29	Atmospheric Chemistry of Enols: A Theoretical Study of the Vinyl Alcohol + OH + O₂ Reaction Mechanism. Environmental Science & Technology, 2014, 48, 6694-6701.	4.6	55
30	Oxidative damage of aromatic dipeptides by the environmental oxidants NO2Ë™ and O3. Organic and Biomolecular Chemistry, 2014, 12, 8280-8287.	1.5	22
31	Mass Spectrometric and Computational Studies on the Reaction of Aromatic Peroxyl Radicals with Phenylacetylene Using the Distonic Radical Ion Approach. Journal of Physical Chemistry A, 2014, 118, 3295-3306.	1.1	10
32	Synthesis of cyclic peptide hemicryptophanes: enantioselective recognition of a chiral zwitterionic guest. Chemical Communications, 2013, 49, 8504.	2.2	41
33	Perylene-based profluorescent nitroxides for the rapid monitoring ofÂpolyester degradation upon weathering: An assessment. Polymer Degradation and Stability, 2013, 98, 2054-2062.	2.7	12
34	Radical Cascades Initiated by Intermolecular Radical Addition to Alkynes and Related Triple Bond Systems. Chemical Reviews, 2013, 113, 813-853.	23.0	540
35	Damage of polyesters by the atmospheric free radical oxidant NO₃^{â€¢}: a product study involving model systems. Beilstein Journal of Organic Chemistry, 2013, 9, 1907-1916.	1.3	2
36	Reaction of Aromatic Peroxyl Radicals with Alkynes: A Mass Spectrometric and Computational Study Using the Distonic Radical Ion Approach. Chemistry - an Asian Journal, 2013, 8, 450-464.	1.7	9

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37	Reaction mechanisms: radical and radical ion reactions. Annual Reports on the Progress of Chemistry Section B, 2012, 108, 228.	0.8	4
38	Total Synthesis of Mycocyclosin. Organic Letters, 2012, 14, 2402-2405.	2.4	61
39	Oxidative Damage of Pyrimidine Nucleosides by the Environmental Free Radical Oxidant NO3â€¢ in the Absence and Presence of NO2â€¢ and Other Radical and Non-Radical Oxidants. Australian Journal of Chemistry, 2012, 65, 427.	0.5	2
40	Radical Photochemistry. , 2012, , 329-345.		0
41	Damage of aromatic amino acids by the atmospheric free radical oxidant NO3Ë™ in the presence of NO2Ë™, N2O4, O3 and O2. Organic and Biomolecular Chemistry, 2011, 9, 3380.	1.5	23
42	Oxidative Damage of Thymidines by the Atmospheric Free-Radical Oxidant NO3â€¢. Australian Journal of Chemistry, 2011, 64, 833.	0.5	4
43	Reaction mechanisms: radical and radical ion reactions. Annual Reports on the Progress of Chemistry Section B, 2011, 107, 244.	0.8	2
44	â€˜Self-terminating radical cyclizationsâ€™ - new insight into the mechanism of the termination step from computational studies. Journal of Physical Organic Chemistry, 2011, 24, 672-681.	0.9	7
45	Very Low Energy Electrons Transform the Cyclobutaneâ€Pyrimidine Dimer into a Highly Reactive Intermediate. ChemPhysChem, 2010, 11, 561-564.	1.0	3
46	Self-Terminating Radical Cyclizations: How Are Thiyl Radicals Performing?. European Journal of Organic Chemistry, 2010, 2010, 4902-4911.	1.2	12
47	Formation of pyrimidine dimer radical anions in the gas phase. Chemical Communications, 2009, , 7291.	2.2	2
48	N-Centered Radicals in Self-Terminating Radical Cyclizations:â€‰ Experimental and Computational Studies. Journal of Organic Chemistry, 2008, 73, 1413-1421.	1.7	32
49	Can the night-time atmospheric oxidant NO3Ë™ damage aromatic amino acids?. Chemical Communications, 2008, , 2121.	2.2	21
50	Activation of molecular oxygen by S-radicals: experimental and computational studies on a novel oxidation of alkynes to Î±-diketones. Chemical Communications, 2008, , 6239.	2.2	41
51	A Computational Study of Multicomponent Orbital Interactions during the Cyclization of Silyl, Germyl, and Stannyl Radicals onto Câ‹¯N and Câ‹¯O Multiple Bonds. Journal of Organic Chemistry, 2008, 73, 5821-5830.	1.7	19
52	Dual Orbital Effects in N-Philic Cyclizations of Silyl Radicals onto Imines. Chemistry Letters, 2007, 36, 300-301.	0.7	4
53	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
54	Oxidation of Aromatic Alkynes with Nitrate Radicals (NO3â€¢): An Experimental and Computational Study on a Synthetically Highly Versatile Radical. Australian Journal of Chemistry, 2007, 60, 420.	0.5	20

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55	Unexpected dual orbital effects in radical addition reactions involving acyl, silyl and related radicals. Chemical Communications, 2006, , 1067.	2.2	26
56	Mechanistic Insights into NO3â€¢Induced Self-Terminating Radical Oxygenations, Part 1:Â A Computational Study on NO3â€¢and Its Addition to Alkynes. Journal of Physical Chemistry A, 2006, 110, 2195-2203.	1.1	27
57	Computational Study on the 1,2-Rearrangement in Î²-(Nitroxy)vinyl and Î²-(Acetoxy)vinyl Radicals. Journal of Organic Chemistry, 2006, 71, 4040-4048.	1.7	14
58	Polarity-Reversal-Catalyzed Hydrostannylation Reactions: Benzeneselenol-Mediated Homolytic Hydrostannylation of Electron-Rich Olefins. Helvetica Chimica Acta, 2006, 89, 2306-2311.	1.0	8
59	Alkoxyl Radicals asO-Synthons in Self-Terminating Radical Oxygenations: An Experimental and Theoretical Study. Synthesis, 2005, 2005, 1437-1444.	1.2	0
60	Self-Terminating, Oxidative Radical Cyclizations. Molecules, 2004, 9, 480-497.	1.7	14
61	NO3â€¢ Induced Self-Terminating Radical Oxygenations: Diastereoselective Synthesis of Anellated Pyrrolidines. Australian Journal of Chemistry, 2004, 57, 1055.	0.5	15
62	Dissociative electron transfer to and from pyrimidine cyclobutane dimers: An electrochemical study. Organic and Biomolecular Chemistry, 2004, 2, 2742-2750.	1.5	23
63	Self-Terminating Radical Oxygenations: Probing of the Scope of the Concept by Use of Various Organic O-Centered Radicals. European Journal of Organic Chemistry, 2003, 2003, 3173-3178.	1.2	19
64	Self-terminating, oxidative radical cyclizations of medium-sized cycloalkynones with inorganic and organic oxygen-centered radicals of type XOË™: the reaction pathway depends on the nature of X. Journal of the Chemical Society, Perkin Transactions 1, 2002, , 1036-1041.	1.3	14
65	Inorganic Radicals in Organic Synthesis. Chemistry - A European Journal, 2002, 8, 340-347.	1.7	27
66	Radical oxygenations with inorganic radicals: can hydroxyl radicals (HO) act as donors of oxygen atoms?. Tetrahedron Letters, 2002, 43, 1239-1242.	0.7	20
67	Self-Terminating, Oxidative Radical Cyclizations:Â A Novel Reaction of Acyloxyl Radicals. Journal of the American Chemical Society, 2002, 124, 14-15.	6.6	176
68	Oxidative Cleavage of a Cyclobutane Pyrimidine Dimer by Photochemically Generated Nitrate Radicals (NO3â€¢). Organic Letters, 2001, 3, 1455-1458.	2.4	25
69	Nitrate Radical Induced Oxidative, Self-terminating Radical Cyclization Cascades: Improvement of Yield Using a Photochemical Radical Source. Heterocycles, 2001, 55, 377.	0.4	21
70	Sulfate Radical Anions (SO4â€¢-) as Donor of Atomic Oxygen in Anionic Transannular, Self-Terminating, Oxidative Radical Cyclizations. Organic Letters, 2000, 2, 3485-3488.	2.4	41
71	Conceptual Knowledge Discovery and Data Analysis. Lecture Notes in Computer Science, 2000, , 421-437.	1.0	47
72	Stereoselection in 5-exo radical cyclizations of polysubstituted 2-oxahex-5-enyl radicals: A systematic study of the combination substituent effect. Tetrahedron, 1999, 55, 11465-11474.	1.0	24

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73	Diastereoselective formation of anellated tetrahydrofurans using a nitrate radical induced oxidative, self-terminating radical cyclization cascade. Tetrahedron, 1999, 55, 10119-10134.	1.0	42
74	Radical Addition ofN-Bromophthalimide to Linear and Cyclic Alkynes. European Journal of Organic Chemistry, 1999, 1999, 3185-3189.	1.2	15
75	Transannular Cyclizations of Mediumâ€Sized Cycloalkynes and Cycloalkynones Induced by Electroâ€•and Photochemically Generated NO₃ Radicals. Liebigs Annalen, 1997, 1997, 111-119.	0.8	26
76	Affinity profiles of morphine, codeine, dihydrocodeine and their glucuronides at opioid receptor subtypes. Life Sciences, 1995, 56, 793-799.	2.0	151
77	Nitrate radical reactions: interactions with alkynes. Journal of the Chemical Society, Faraday Transactions, 1991, 87, 2141.	1.7	7
78	Intermolecular Radical Additions to Alkynes: Cascade-Type Radical Cyclizations. , 0, , 9-41.		0
79	Degradation of the Nitrification Inhibitor 3,4-Dimethylpyrazole Phosphate in Soils: Indication of Chemical Pathways. ACS Agricultural Science and Technology, 0, , .	1.0	8