

# Goetz F Bucher

## List of Publications by Year in descending order

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76  
papers

1,778  
citations

218677

26  
h-index

289244

40  
g-index

83  
all docs

83  
docs citations

83  
times ranked

1558  
citing authors

#	ARTICLE	IF	CITATIONS
1	9-Aryl-phenalenones: Bioinspired thermally reversible photochromic compounds for photoswitching applications in the pico-to milliseconds range. <i>Dyes and Pigments</i> , 2021, 186, 109060.	3.7	6
2	Calculations on the Ruthenium-Catalyzed Diene and Dienes Ring-Closing Metathesis Reactions in the Synthesis of Taxol Derivatives. <i>Journal of Organic Chemistry</i> , 2021, 86, 13056-13070.	3.2	1
3	Attempted characterisation of phenanthrene-4,5-quinone and electrochemical synthesis of violanthrone-16,17-quinone. How does the stability of bay quinones correlate with structural and electronic parameters?. <i>RSC Advances</i> , 2020, 10, 38004-38012.	3.6	2
4	Detection and Identification of Reaction Intermediates in the Photorearrangement of Pyridazine <i>N</i> -Oxide: Discrepancies between Experiment and Theory. <i>Journal of Organic Chemistry</i> , 2019, 84, 10032-10039.	3.2	4
5	Correlating ionic liquid solvent effects with solvent parameters for a reaction that proceeds through a xanthylium intermediate. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 9336-9342.	2.8	12
6	Dimethylberyllium + CO <sub>2</sub> Fire! A DFT and <i>ab Initio</i> Study into the Photon Emission Observed in a Gas Phase Carbon Dioxide Activation Reaction. <i>Organometallics</i> , 2018, 37, 2519-2530.	2.3	0
7	Fragmentation of a dioxolanyl radical via nonstatistical reaction dynamics: characterization of the vinyloxy radical by ns time-resolved laser flash photolysis. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 19819-19828.	2.8	2
8	Interaction of Triplet Excited States of Ketones with Nucleophilic Groups: ( $\dot{I}\epsilon, \dot{I}\epsilon^*$ ) and ( $n, \dot{I}\epsilon^*$ ) versus ( $\dot{I}f^*, \dot{I}\epsilon^*$ ) States. Substituent-Induced State Switching in Triplet Ketones. <i>Australian Journal of Chemistry</i> , 2017, 70, 387.	0.9	1
9	Electronically Stabilized Nonplanar Phenalenyl Radical and Its Planar Isomer. <i>Journal of the American Chemical Society</i> , 2015, 137, 14944-14951.	13.7	38
10	9-Iodophenalenone and 9-trifluoromethanesulfonyloxyphenalenone: convenient entry points to new phenalenones functionalised at the 9-position. Iodine-carbonyl interaction studies by X-ray crystallography. <i>RSC Advances</i> , 2014, 4, 56654-56657.	3.6	4
11	Clarifying the structure of carbonic acid. <i>Science</i> , 2014, 346, 544-545.	12.6	14
12	$\hat{I}^2$ -Phenyl quenching of 9-phenylphenalenones: a novel photocyclisation reaction with biological implications. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 18813-18820.	2.8	12
13	( $\dot{I}\epsilon^*, \dot{I}f^*$ ), ( $\dot{I}f^*, \dot{I}\epsilon^*$ ) and Rydberg Triplet Excited States of Hydrogen Peroxide and Other Molecules Bearing Two Adjacent Heteroatoms. <i>Journal of Physical Chemistry A</i> , 2014, 118, 2332-2343.	2.5	7
14	A novel neutral organic electron donor with record half-wave potential. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 8073.	2.8	52
15	Mechanisms of the thermal decay of chlorpropham. <i>Journal of Hazardous Materials</i> , 2013, 246-247, 154-162.	12.4	10
16	Naphthoxanthenyl, a New Stable Phenalenyl Type Radical Stabilized by Electronic Effects. <i>Organic Letters</i> , 2013, 15, 2970-2973.	4.6	26
17	Thermochemistry and photochemistry of spiroketals derived from indan-2-one: Stepwise processes versus concerted fragmentations. <i>Beilstein Journal of Organic Chemistry</i> , 2013, 9, 1668-1676.	2.2	1
18	New reactive intermediates in organic chemistry. <i>Beilstein Journal of Organic Chemistry</i> , 2013, 9, 613-614.	2.2	2

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19	Tools to study the degradation and loss of the N-phenyl carbamate chlorpropham " A comprehensive review. <i>Environment International</i> , 2012, 49, 38-50.	10.0	33
20	Triplet Excited States of Cyclic Disulfides and Related Compounds: Electronic Structures, Geometries, Energies, and Decay. <i>Journal of Physical Chemistry A</i> , 2011, 115, 540-546.	2.5	10
21	Intramolecular addition of oxyradicals to benzene rings: A DFT study. <i>Collection of Czechoslovak Chemical Communications</i> , 2011, 76, 947-956.	1.0	0
22	The Rearrangement of the Trityloxy Radical: Sherlock Holmes's™ Most Recent Case. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6934-6935.	13.8	3
23	Ester Pyrolysis of Carbonates: Bis(benzene hydrate) Carbonate as Potential Precursor for Monomeric Carbonic Acid. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 1070-1075.	2.4	11
24	Quenching of Triplet Benzophenone by Benzene and Diphenyl Ether: A DFT Study. <i>Journal of Physical Chemistry A</i> , 2010, 114, 10712-10716.	2.5	5
25	Computational and Matrix Isolation Studies of Tetra-tert-butylethane. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 4340-4345.	2.4	4
26	Is the [9]Annulene Cation a Möbius Annulene?. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9971-9974.	13.8	29
27	The Photochemical C <sup>2</sup> -C <sup>6</sup> Cyclization of Enyne-Allenes: Interception of the Fulvene Diradical with a Radical Clock Ring Opening. <i>Journal of Organic Chemistry</i> , 2009, 74, 5850-5860.	3.2	30
28	Hydroxycarbene: Watching a Molecular Mole at Work. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 6957-6958.	13.8	22
29	Addition of the Carbonyl Oxygen to the ipso- or ortho-Carbon Atoms of the <sup>12</sup> -Phenyl Ring Followed by Intersystem Crossing and Rapid Relaxation to the Ground-State Ketones: A Mechanism for <sup>12</sup> -Phenyl Quenching of the First Triplet Excited States of Derivatives of <sup>12</sup> -Phenylpropiophenone. <i>Journal of Physical Chemistry A</i> , 2008, 112, 5411-5417.	2.5	9
30	Photochemical C <sup>2</sup> -C <sup>6</sup> Cyclization of Enyne-Allenes: Detection of a Fulvene Triplet Diradical in the Laser Flash Photolysis. <i>Journal of Organic Chemistry</i> , 2008, 73, 8815-8828.	3.2	27
31	Tetradecahydroadamantane-1,3,5,7-Di- and Tetracations and Their Helium and Hydride Inclusion Complexes: Spherical Aromaticity and Evidence for a Bonding Interaction between Carbon and Helium. <i>Journal of Physical Chemistry A</i> , 2008, 112, 9906-9910.	2.5	3
32	Thermal C <sup>2</sup> -C <sup>6</sup> Cyclization of Enyne-Allenes. Experimental Evidence for a Stepwise Mechanism and for an Unusual Thermal Silyl Shift. <i>Journal of Organic Chemistry</i> , 2007, 72, 2166-2173.	3.2	38
33	Intramolecular Disulfide Bridges as a Phototrigger To Monitor the Dynamics of Small Cyclic Peptides. <i>Journal of Physical Chemistry B</i> , 2007, 111, 11297-11302.	2.6	42
34	Time-Resolved Infrared Study on the Photochemistry of O-Fluoroformyl- and O-Chloroacetyl-9-fluorenone Oxime: The Reactivity of the Fluoroformyl Radical in Acetonitrile Solution. <i>Journal of Organic Chemistry</i> , 2006, 71, 2135-2138.	3.2	3
35	Organische Chemie 2005. <i>Nachrichten Aus Der Chemie</i> , 2006, 54, 241-264.	0.0	0
36	A TRIR, TREPR and Computational Study on the Reactivity and Structure of the 2,2,2-Trifluoroethoxycarbonyl Radical. <i>Photochemistry and Photobiology</i> , 2006, 82, 332.	2.5	5

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37	Generation and Characterization of the Selenocysteiny Radical: A Direct Evidence from Time-Resolved UV/Vis, Electron Paramagnetic Resonance, and Fourier Transform Infrared Spectroscopy. <i>Journal of Organic Chemistry</i> , 2005, 70, 6609-6615.	3.2	8
38	The Photochemistry of Lipoic Acid: Photoionization and Observation of a Triplet Excited State of a Disulfide. <i>ChemPhysChem</i> , 2005, 6, 2607-2618.	2.1	37
39	Infrared, UV/Vis, and W-band EPR Spectroscopic Characterization and Photochemistry of Triplet Mesitylphosphinidene. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 3289-3293.	13.8	61
40	Azidocryptands synthesis, structure, and complexation properties. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 303-308.	2.8	7
41	Photochemistry of an Azido-Functionalized Cryptand: Controlling the Reactivity of an Extremely Long-Lived Singlet Aryl Nitrene by Complexation to Alkali Cations. <i>Journal of the American Chemical Society</i> , 2005, 127, 6883-6892.	13.7	13
42	Photochemical Myers-Saito and C2-C6 Cyclizations of Enynes: Direct Detection of Intermediates in Solution. <i>Journal of the American Chemical Society</i> , 2005, 127, 5324-5325.	13.7	39
43	Photochemistry of 9-fluorenone oxime phenylglyoxylate: a combined TRIR, TREPR and ab initio study. <i>Journal of Physical Organic Chemistry</i> , 2004, 17, 207-214.	1.9	19
44	Evidence for Intramolecular Ylide Formation in the Decay of a Singlet Aryl Nitrene. <i>European Journal of Organic Chemistry</i> , 2004, 2004, 269-271.	2.4	5
45	Photoinduced Interactions Between Oxidized and Reduced Lipoic Acid and Riboflavin (Vitamin B2). <i>ChemPhysChem</i> , 2004, 5, 47-56.	2.1	53
46	Steady-State and Time-Resolved Studies on Photoinduced Disulfide Bond Cleavage Using Aniline as an Electron Donor. <i>ChemPhysChem</i> , 2004, 5, 399-402.	2.1	10
47	Generation and Photoreactions of 2,4,6-Trinitro-1,3,5-triazine, a Septet Trinitrene. <i>Journal of the American Chemical Society</i> , 2004, 126, 7846-7852.	13.7	51
48	Revisiting the Reduction of Di-tert-butyl Ketone with Alkali Metals. <i>European Journal of Organic Chemistry</i> , 2003, 2003, 2229-2232.	2.4	4
49	Laser Flash Photolysis of Disulfonyldiazomethanes: Partitioning between Hetero-Wolff Rearrangement and Intramolecular Carbene Oxidation by a Sulfonyl Group. <i>European Journal of Organic Chemistry</i> , 2003, 2003, 2153-2158.	2.4	9
50	Sulfene-Pyridine Adducts: Lewis Acid/Base Complexes, Ylides, Pyridinium Sulfinates Zwitterions, or Carbene Ylide/SO <sub>2</sub> Complexes?. <i>European Journal of Organic Chemistry</i> , 2003, 2003, 3868-3874.	2.4	2
51	DFT Calculations on a New Class of C <sub>3</sub> -Symmetric Organic Bases: Highly Basic Proton Sponges and Ligands for Very Small Metal Cations. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 4039-4042.	13.8	32
52	Dicyanocarbodiimide and Trinitro-s-triazine Generated by Consecutive Photolysis of Triazido-s-triazine in a Low-Temperature Nitrogen Matrix. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 5206-5209.	13.8	30
53	Organische Chemie 2001. <i>Nachrichten Aus Der Chemie</i> , 2002, 50, 289-311.	0.0	4
54	Organische Chemie 2000. <i>Nachrichten Aus Der Chemie</i> , 2001, 49, 296-320.	0.0	0

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55	1,4-Naphthoquinonediazide-2-carboxylic acid: a diazo compound with a long-lived triplet excited state. <i>Journal of Physical Organic Chemistry</i> , 2001, 14, 197-200.	1.9	2
56	Characterization of Alkoxy carbonyl Radicals by Step-Scan Time-Resolved Infrared Spectroscopy. <i>European Journal of Organic Chemistry</i> , 2001, 2001, 545-552.	2.4	25
57	Photochemical Generation of Iminoquinone Methides by 1,4-Hydrogen Migration in Derivatives of o-Tolyl nitrene. <i>European Journal of Organic Chemistry</i> , 2001, 2001, 2447-2462.	2.4	12
58	A Laser Flash Photolysis Study on 2-Azido-N,N-diethylbenzylamine – The Reactivity of Iminoquinone Methides in Solution. <i>European Journal of Organic Chemistry</i> , 2001, 2001, 2463-2475.	2.4	14
59	Ethyneologization of a Coarctate Fragmentation. <i>Chemistry - A European Journal</i> , 2000, 6, 1224-1228.	3.3	12
60	Photochemistry of ortho-Phenoxy methyl-Substituted Aryl Azides: A Novel Nitrene Rearrangement En Route to Isolable Iminoquinone Methides?. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 212-215.	13.8	7
61	Photochemistry of 2-azido-4,6-dichloro-s-triazine: matrix isolation of a strained cyclic carbodiimide containing four nitrogen atoms in a seven-membered ring. <i>Chemical Communications</i> , 1999, , 2113-2114.	4.1	30
62	3,3-Didehydro-5-methyl-6-hydroxytoluene: Matrix Isolation of a Diradical Related to the Neocarzinostatin Chromophore. <i>Journal of the American Chemical Society</i> , 1998, 120, 8480-8485.	13.7	33
63	Absolute Rate Constants for the Reactions of Sulfur (3P) Atoms in Solution. <i>Journal of the American Chemical Society</i> , 1997, 119, 1961-1970.	13.7	10
64	Photochemistry of p-Benzoquinone Diazide Carboxylic Acids: Formation of 2,4-Didehydrophenols. <i>Journal of the American Chemical Society</i> , 1997, 119, 10660-10672.	13.7	34
65	Tris(1-naphthyl)borane Studied by Laser Flash Photolysis, Matrix Isolation, and Low-Temperature NMR Spectroscopy: Two Isomers with Significantly Different Triplet Excited State Properties. <i>Liebigs Annalen</i> , 1997, 1997, 1415-1423.	0.8	6
66	A CCSD(T) and DFT investigation of m-benzyne and 4-hydroxy-m-benzyne. <i>Chemical Physics Letters</i> , 1997, 268, 313-320.	2.6	70
67	Chemistry and spectroscopy of aromatic diradicals in cryogenic matrices. <i>Pure and Applied Chemistry</i> , 1996, 68, 353-356.	1.9	21
68	Photochemical studies of atomic species (F, Br, O) in solution. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1996, 102, 7-11.	3.9	7
69	Laser Flash Photolysis of Carbamates Derived from 9-Fluorenone Oxime. <i>Journal of the American Chemical Society</i> , 1995, 117, 3848-3855.	13.7	36
70	Laser Flash Photolysis of Pyridine N-Oxide: Kinetic Studies of Atomic Oxygen [O(3P)] in Solution. <i>The Journal of Physical Chemistry</i> , 1994, 98, 12471-12473.	2.9	57
71	Absolute Rate Constants for Atomic Fluorine in Solution: Characterization of Reaction Intermediates in the Laser Flash Photolysis of Xenon Difluoride. <i>Journal of the American Chemical Society</i> , 1994, 116, 10076-10079.	13.7	21
72	Structure and Spectroscopic Properties of p-Benzoquinone Diazides. <i>Chemische Berichte</i> , 1993, 126, 2101-2109.	0.2	32

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73	Carbenes in matrixes: spectroscopy, structure, and reactivity. <i>Chemical Reviews</i> , 1993, 93, 1583-1621.	47.7	277
74	Direct observation of the cyclopropene-vinylcarbene rearrangement. Matrix isolation of bicyclo[3.1.0]hexa-3,5-dien-2-ones. <i>Journal of Organic Chemistry</i> , 1992, 57, 1346-1351.	3.2	56
75	Carbonyl $\rightarrow$ O Oxides and Dioxiranes: The Influence of Substituents on Spectroscopic Properties. <i>Chemische Berichte</i> , 1992, 125, 1851-1859.	0.2	42
76	1H-Bicyclo[3.1.0]hexa-3,5-dien-2-one. A strained 1,3-bridged cyclopropene. <i>Journal of the American Chemical Society</i> , 1991, 113, 5311-5322.	13.7	67