

Gerd-Volker RÄjschenthaler

List of Publications by Year in descending order

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citations

159585

30
h-index

175258

52
g-index

99
all docs

99
docs citations

99
times ranked

2679
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Advances in Synthesis of Difluoromethylene Phosphonates for Biological Applications. <i>Advanced Synthesis and Catalysis</i> , 2021, 363, 2912-2968.	4.3	42
2	Janus Face All- <i>cis</i> -1,2,4,5-tetrakis(trifluoromethyl)- and All- <i>cis</i> -1,2,3,4,5,6-hexakis(trifluoromethyl)-Cyclohexanes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19905-19909.	13.8	11
3	Non-Flammable Fluorinated Phosphorus(III)-Based Electrolytes for Advanced Lithium-Ion Battery Performance. <i>ChemElectroChem</i> , 2020, 7, 1499-1508.	3.4	13
4	Asymmetric Synthesis of 4,4-(Difluoro)glutamic Acid via Chiral Ni(II)-Complexes of Dehydroalanine Schiff Bases. Effect of the Chiral Ligands Structure on the Stereochemical Outcome. <i>ChemistryOpen</i> , 2020, 9, 93-96.	1.9	16
5	The self-disproportionation of enantiomers (SDE) via column chromatography of β -amino- β , β -difluorophosphonic acid derivatives. <i>Amino Acids</i> , 2019, 51, 1377-1385.	2.7	13
6	Convenient synthesis of racemic 4,4-difluoro glutamic acid derivatives via Michael-type additions of Ni(II)-complex of dehydroalanine Schiff bases. <i>Journal of Fluorine Chemistry</i> , 2019, 227, 109376.	1.7	7
7	Fluorinated Cyclic Phosphorus(III)-Based Electrolyte Additives for High Voltage Application in Lithium-Ion Batteries: Impact of Structure-Reactivity Relationships on CEI Formation and Cell Performance. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 16605-16618.	8.0	27
8	Fluorinated Electrolyte Compound as a Bi-Functional Interphase Additive for Both, Anodes and Cathodes in Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2018, 165, A3525-A3530.	2.9	29
9	Influence of the Fluorination Degree of Organophosphates on Flammability and Electrochemical Performance in Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2018, 165, A1935-A1942.	2.9	15
10	Phosphorus additives for improving high voltage stability and safety of lithium ion batteries. <i>Journal of Fluorine Chemistry</i> , 2017, 198, 24-33.	1.7	54
11	β -Amino- β , β -difluoro-phosphonoglutamic Acid Derivatives: An Unexplored, Multifaceted Structural Type of Tailor-Made β -Amino Acids. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 3451-3456.	2.4	10
12	Shutdown potential adjustment of modified carbene adducts as additives for lithium ion battery electrolytes. <i>Journal of Power Sources</i> , 2017, 367, 72-79.	7.8	14
13	New Chiral Reagent for Installation of Pharmacophoric (<i>S</i>)- or (<i>R</i>)-2-(Alkoxyphosphono)-1-amino-2,2-difluoroethyl Groups. <i>Chemistry - A European Journal</i> , 2016, 22, 7036-7040.	2.4	24
14	Influence of the Fluorination Degree of Organophosphates on Flammability and Electrochemical Performance in Lithium Ion Batteries: Studies on Fluorinated Compounds Deriving from Triethyl Phosphate. <i>Journal of the Electrochemical Society</i> , 2016, 163, A751-A757.	2.9	49
15	Recent Progress in the in situ Detrifluoroacetylative Generation of Fluoro Enolates and Their Reactions with Electrophiles. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 6401-6412.	2.4	66
16	Synthesis of Trifluoromethylated Analogues of 4,5-Dihydroorotic Acid. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 1290-1301.	2.4	10
17	Synthesis of (2 <i>S</i> ,3 <i>S</i>)- β -(trifluoromethyl)- β , β -diamino acid by Mannich addition of glycine Schiff base Ni(II) complexes to <i>N</i> -tert-butylsulfinyl-3,3,3-trifluoroacetalimine. <i>Journal of Fluorine Chemistry</i> , 2015, 171, 67-72.	1.7	43
18	Modification of 3,5-bis(arylidene)-4-piperidone pharmacophore by phosphonate group using 1,2,3-triazole cycle as a linker for the synthesis of new cytostatics. <i>Medicinal Chemistry Research</i> , 2015, 24, 1753-1762.	2.4	7

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19	Investigations on novel electrolytes, solvents and SEI additives for use in lithium-ion batteries: Systematic electrochemical characterization and detailed analysis by spectroscopic methods. <i>Progress in Solid State Chemistry</i> , 2014, 42, 65-84.	7.2	176
20	The conformational analysis of push-pull enamines using Fourier transform IR and NMR spectroscopy, and quantum chemical calculations. V. β -Methyl-, fluorine- β -N,N-dimethylaminovinyl trifluoromethyl ketones. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 131, 94-101.	3.9	8
21	Control of Regio- and Enantioselectivity in the Asymmetric Organocatalytic Addition of Acetone to 4-(Trifluoromethyl)pyrimidin-2(1H)-ones. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 1452-1460.	2.4	17
22	Fluorinated Alkynylphosphonates in <i>C</i> - <i>C</i> Cyclizations: Regioselective Formation of Polysubstituted Fluorinated Arylphosphonates. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 3757-3761.	2.4	5
23	Synthesis of highly substituted quinolines via heterocyclization of β -fluorinated acetylenephosphonates with ortho-aminoaryl ketones. <i>Tetrahedron</i> , 2014, 70, 8084-8096.	1.9	16
24	(NHC ^{Me})SiCl ₄ : a versatile carbene transfer reagent - synthesis from silicochloroform. <i>Chemical Science</i> , 2013, 4, 77-83.	7.4	59
25	Recent advances in the synthesis of fluorinated aminophosphonates and aminophosphonic acids. <i>RSC Advances</i> , 2013, 3, 6693.	3.6	146
26	Friedel-Crafts alkylation of natural amino acid-derived pyrroles with CF ₃ -substituted cyclic imines. <i>Mendeleev Communications</i> , 2013, 23, 92-93.	1.6	26
27	New asymmetric approach to β -trifluoromethyl isoserines. <i>RSC Advances</i> , 2013, 3, 6479.	3.6	33
28	Aminoalkylation of Indoles with β -Polyfluoroalkylated Cyclic Imines. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 2237-2245.	2.4	21
29	Highly β -Regioselective Friedel-Crafts Aminoalkylation of Pyrroles with Cyclic Perfluoroalkylated Imines. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 3049-3058.	2.4	27
30	Alkynes XF ₂ CCCP(O)(OR) ₂ : Synthesis and reactivity. <i>Journal of Fluorine Chemistry</i> , 2013, 152, 29-37.	1.7	9
31	Synthesis and Properties of β -Bromomethyl-Substituted β -Ethoxyvinyl Polyfluoroalkyl Ketones. <i>Synthesis</i> , 2013, 45, 3157-3163.	2.3	7
32	Carbene Complexes of Phosphorus(V) Fluorides by Oxidative Addition of 2,2-Difluorobis(dialkylamines) to Phosphorus(III) Halides. <i>Organometallics</i> , 2012, 31, 1278-1280.	2.3	34
33	Methylenebisphosphonates with Dienone Pharmacophore: Synthesis, Structure, Antitumor and Fluorescent Properties. <i>Archiv Der Pharmazie</i> , 2012, 345, 349-359.	4.1	19
34	Diphosphates and diphosphonates in polyoxometalate chemistry. <i>Chemical Society Reviews</i> , 2012, 41, 7590.	38.1	152
35	Base-Promoted Heterocyclization of Fluorinated Alkynylphosphonates with Select ortho-Aminobenzonitriles. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 3684-3690.	2.4	21
36	Methyl tetrafluoro-2-(methoxy) propionate as co-solvent for propylene carbonate-based electrolytes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2012, 205, 408-413.	7.8	25

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37	Asymmetric synthesis of phosphonotrifluoroalanine and its derivatives using N-tert-butanesulfinyl imine derived from fluoral. <i>Tetrahedron Letters</i> , 2012, 53, 539-542.	1.4	86
38	CF ₂ -Containing acetylenephosphonates in heterocyclization reactions: the first synthesis of 2-difluoromethyl azaxanth-3-ylphosphonates. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 8228.	2.8	14
39	Synthesis of 2-Perfluoroalkyl 4 <i>H</i> - and 2 <i>H</i> -Chromenylphosphonates Mediated by Amines and Phosphines. <i>Journal of Organic Chemistry</i> , 2011, 76, 71-79.	3.2	22
40	2,3-Dihydro-1 <i>H</i> -naphtho[1,8- <i>de</i>][1,3]diphosphinines. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2011, 186, 841-844.	1.6	2
41	Structural Report for 2,5-Bis(trifluoroacetyl)cyclohexane-1,4-dione and <i>o</i> , <i>o</i> '-bis(trifluoroacetyl)- <i>p</i> -cresol. <i>Journal of Chemical Crystallography</i> , 2011, 41, 1795-1799.	1.1	1
42	Copper-Catalyzed Trifluoromethylation of Aryl Iodides with Potassium (Trifluoromethyl)trimethoxyborate. <i>Chemistry - A European Journal</i> , 2011, 17, 2689-2697.	3.3	254
43	Convenient synthesis of fluoroalkyl 1- and 2-aminophosphonates. <i>Journal of Fluorine Chemistry</i> , 2011, 132, 834-837.	1.7	22
44	The reaction of cyclic imines with the Ruppert-Prakash reagent. Facile approach to 1-trifluoromethylated nornicotine, anabazine, and homoanabazine. <i>Tetrahedron</i> , 2011, 67, 69-74.	1.9	42
45	An effective synthetic route to ortho-difluoromethyl arylphosphosphonates: studies on the reactivity of phosphorus- and fluorine-containing functions. <i>Tetrahedron</i> , 2011, 67, 3887-3903.	1.9	61
46	Synthetic Approaches to Cytotoxic Amidophosphates, Aminophosphonates, and Aminobisphosphonates with 3,5-Bis(arylidene)piperid-4-one Framework. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2011, 186, 908-917.	1.6	5
47	An Unusual Intramolecular P-P Cyclization of The P-C-P System in Phosphaphenalenenes. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2011, 186, 758-760.	1.6	1
48	Fluorine Tagging of Polyoxometalates: The Cyclic [Mo ₂ V ₂ O ₄ (H ₂ O)] ₄ {O ₃ PC(CF ₃)(O)PO ₃] ₄ 12-. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 3915-3919.	2.0	17
49	The first synthesis of 3-hydroxy-2-(polyfluoroalkyl)chromones and their ammonium salts. 3-hydroxychromone in the Mannich reaction. <i>Journal of Heterocyclic Chemistry</i> , 2010, 47, 944-948.	2.6	5
50	Polytrifluoromethylation versus Polyfluorination of the Isomers of Kekulé Benzene and Phenol: A Theoretical Study. <i>Journal of Organic Chemistry</i> , 2010, 75, 6436-6444.	3.2	6
51	Design, cytotoxic and fluorescent properties of novel N-phosphorylalkyl substituted E,E-3,5-bis(arylidene)piperid-4-ones. <i>European Journal of Medicinal Chemistry</i> , 2009, 44, 2135-2144.	5.5	43
52	Facile synthesis of cyclic 1-perfluoroalkyl-2-aminophosphonates. <i>Journal of Fluorine Chemistry</i> , 2009, 130, 662-666.	1.7	23
53	Metal and Boron Derivatives of Fluorinated Cyclic 1,3-Dicarbonyl Compounds. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2009, 64, 541-550.	0.7	14
54	Facile synthesis of phosphorylated azides in ionic liquids and their use in the preparation of 1,2,3-triazoles. <i>Heteroatom Chemistry</i> , 2008, 19, 293-300.	0.7	36

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55	Bis(trifluoroacetyl)phenols and their derivatives in reactions with selected phosphorus(III) compounds. <i>Heteroatom Chemistry</i> , 2008, 19, 474-482.	0.7	18
56	New method of preparation of C ₂ F ₅ Li and its reactions with cyclic imines and lactams: Synthesis of $\hat{1}\pm$ -pentafluoroethyl proline. <i>Journal of Fluorine Chemistry</i> , 2008, 129, 390-396.	1.7	55
57	The Ugi reaction with CF ₃ -carbonyl compounds: effective synthesis of $\hat{1}\pm$ -trifluoromethyl amino acid derivatives. <i>Tetrahedron</i> , 2008, 64, 11706-11712.	1.9	51
58	TiCl ₄ and Grignard reagent-promoted ring-opening reactions of various epoxides: synthesis of $\hat{1}\pm$ -hydroxy- $\hat{1}\pm$, $\hat{1}\pm$ -difluoromethylenephosphonates. <i>Tetrahedron Letters</i> , 2008, 49, 6046-6049.	1.4	13
59	Pentakis(trifluoromethyl)phenyl, a Sterically Crowded and Electron-withdrawing Group: Synthesis and Acidity of Pentakis(trifluoromethyl)benzene, -toluene, -phenol, and -aniline. <i>Journal of Organic Chemistry</i> , 2008, 73, 2607-2620.	3.2	123
60	Functional Compounds Based on Hypervalent Sulfur Fluorides. <i>ACS Symposium Series</i> , 2007, , 221-243.	0.5	21
61	Halogenation of Fluorinated 1,3,5-Triketones. <i>Helvetica Chimica Acta</i> , 2007, 90, 369-384.	1.6	3
62	Dissociation of the P=C Ylidic Bond. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 254-258.	2.0	9
63	Oxidation of Phosphanes with Orthoquinones: An Unusual Decomposition of an Unexpectedly Stable Zwitterion. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 259-262.	2.0	3
64	Synthesis of functionalized bisphosphonates via click chemistry. <i>Organic and Biomolecular Chemistry</i> , 2007, 5, 2361-2367.	2.8	53
65	Diastereoselective addition of diethyl difluoromethylphosphonate to enantiopure sulfinimines: synthesis of $\hat{1}\pm$, $\hat{1}\pm$ -difluoro- $\hat{1}\pm$ -aminophosphonates, phosphonic acids, and phosphonamidic acids. <i>Tetrahedron</i> , 2006, 62, 9902-9910.	1.9	30
66	$\hat{1}\pm$ -Pentafluoroethylated amines: a new synthetic approach. <i>Mendeleev Communications</i> , 2006, 16, 141-143.	1.6	5
67	Fluor, Element f $\frac{1}{4}$ r (fast) alle FÄlle. <i>Nachrichten Aus Der Chemie</i> , 2005, 53, 743-746.	0.0	6
68	Nucleophilic trifluoromethylation of RF-containing 4-quinolones, 8-aza- and 1-thiochromones with (trifluoromethyl)trimethylsilane. <i>Journal of Fluorine Chemistry</i> , 2005, 126, 779-784.	1.7	27
69	A Novel and Simple Synthesis of 2-(Trifluoromethyl)-4H-thiochromen-4-ones. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2005, 180, 1315-1319.	1.6	14
70	Guanidinophosphazenes: Design, Synthesis, and Basicity in THF and in the Gas Phase. <i>Journal of the American Chemical Society</i> , 2005, 127, 17656-17666.	13.7	116
71	Carbamoylphosphonate-based matrix metalloproteinase inhibitor metal complexes: solution studies and stability constants. Towards a zinc-selective binding group. <i>Journal of Biological Inorganic Chemistry</i> , 2004, 9, 307-315.	2.6	45
72	Novel $\hat{1}\pm$ -hydroxy- $\hat{1}\pm$ -bis(trifluoromethyl) imines. <i>Journal of Fluorine Chemistry</i> , 2004, 125, 1039-1049.	1.7	13

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73	Carbamoylphosphonates, a New Class of in Vivo Active Matrix Metalloproteinase Inhibitors. 1. Alkyl- and Cycloalkylcarbamoylphosphonic Acids. <i>Journal of Medicinal Chemistry</i> , 2004, 47, 2826-2832.	6.4	47
74	Perfluoroalkyl borates and boronic esters: new promising partners for Suzuki and Petasis reactions. <i>Tetrahedron Letters</i> , 2003, 44, 8273-8277.	1.4	83
75	The Unexpected Formation of a Novel Fluorinated Triene. <i>European Journal of Inorganic Chemistry</i> , 2003, 2003, 54-56.	2.0	8
76	The Synthesis and Structure of P-C-P Bridged Ferrocene. <i>European Journal of Inorganic Chemistry</i> , 2003, 2003, 1169-1174.	2.0	2
77	Regioselective 1,4-trifluoromethylation of α,β -enones using α -protect-in-situ™ methodology. <i>Tetrahedron Letters</i> , 2003, 44, 7623-7627.	1.4	60
78	Regioselective Nucleophilic 1,4-Trifluoromethylation of 2-Polyfluoroalkylchromones with (Trifluoromethyl)trimethylsilane. Synthesis of Fluorinated Analogs of Natural 2,2-Dimethylchroman-4-ones and 2,2-Dimethylchromenes. <i>Journal of Organic Chemistry</i> , 2003, 68, 7747-7754.	3.2	78
79	Dimer of trifluoropyruvic acid: synthesis and molecular structure. <i>Journal of Chemical Research</i> , 2003, 2003, 804-805.	1.3	2
80	Bis[bis(dialkylamino)phosphanyl]methanes and Bis(trifluoromethyl)acrylonitrile α Reactions and Derivatives. <i>European Journal of Inorganic Chemistry</i> , 2002, 2002, 2985-2990.	2.0	7
81	Reaction of 2-(Polyfluoroacyl)cycloalkanones with Hydroxylamine. <i>Helvetica Chimica Acta</i> , 2002, 85, 1960.	1.6	6
82	2-Polyfluoroacylcycloalkanones in reactions with selected phosphorus(III) compounds. <i>Heteroatom Chemistry</i> , 2002, 13, 97-107.	0.7	23
83	Synthesis and Structure of O-silylated 2-Polyfluoroacyl-cycloalkanones. <i>Monatshefte für Chemie</i> , 2001, 132, 911-918.	1.8	3
84	Interaction of Some Methylenediphosphanes with Hexafluoroacetone and Hexafluorothioacetone Dimer. <i>European Journal of Inorganic Chemistry</i> , 2001, 2001, 2377-2383.	2.0	16
85	A Facile New Method for the Two-step Substitution of Hydroxy Groups in Primary Alcohols for Trifluoromethyl and Pentafluoroethyl Moieties. <i>Synlett</i> , 2001, 2001, 0379-0381.	1.8	28
86	Synthesis, structure and reactivity of a trifluoromethyl sulfide anionic salt stabilized with tetrakis(dimethylamino)ethylene dication (TDAE ²⁺). <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2000, , 2183-2185.	1.3	51
87	Reactions of fluorinated hydroxy and epoxy ketones with tris(trimethylsilyl) phosphite. <i>Heteroatom Chemistry</i> , 1999, 10, 632-637.	0.7	2
88	Diastereoselective Synthesis of Phosphines and Phosphoranes using Fluorinated Acetylacetones. Phosphorus, Sulfur and Silicon and the Related Elements, 1999, 147, 359-359.	1.6	0
89	HEXAFLUOROACETONE ADDITION TO AMIDOPHOSPHITES. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1997, 127, 15-25.	1.6	13
90	Synthesis and Reactions of the Novel Diphosphine, $iPrN = C[CH_2P(NiPr_2)_2]_2$. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1996, 111, 193-193.	1.6	3

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91	Imides of 2-Trifluoroacetylphenol and other Trifluoroacetic acid Esters: Novel Reactions with Phosphorus(III) Derivates. Phosphorus, Sulfur and Silicon and the Related Elements, 1996, 111, 139-139.	1.6	0
92	Simple preparation of difluorophosphoranes using anhydrous zinc and tetramethylammonium fluorides. Journal of Fluorine Chemistry, 1995, 71, 47-49.	1.7	40
93	Molecular structures and reactivity of trifluoromethyltris(dialkylamino)phosphonium bromides. Journal of Fluorine Chemistry, 1995, 70, 271-275.	1.7	12
94	Mono, Spiro and Tricyclic Ring Systems Containing Phosphorus. Phosphorus, Sulfur and Silicon and the Related Elements, 1994, 93, 289-292.	1.6	2