

Gerd-Volker RÄjschenthaler

List of Publications by Year in descending order

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74
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1,366
citations

361045

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86
all docs

86
docs citations

86
times ranked

1174
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#	ARTICLE	IF	CITATIONS
1	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.	1.7	123
2	Recent Progress in the in situ Detrifluoroacetylation Generation of Fluoro Enolates and Their Reactions with Electrophiles. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 6401-6412.	1.2	66
3	Chemistry of electrochemical oxidative reactions of sulfinate salts. <i>Green Chemistry</i> , 2020, 22, 3028-3059.	4.6	63
4	Phosphorus additives for improving high voltage stability and safety of lithium ion batteries. <i>Journal of Fluorine Chemistry</i> , 2017, 198, 24-33.	0.9	54
5	Cyclische Oxyphosphorane mit dem Spinlabel 4-Oxy-1-oxyl-2,2,6,6-tetramethylpiperidin / Spin-Labeled Cyclic Oxyphosphoranes 4-Oxy-1-oxyl-2,2,6,6-tetramethylpiperidine. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1978, 33, 305-310.	0.3	52
6	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.	1.3	49
7	Synthesis of (2 <i>S</i> ,3 <i>S</i>)-1,2-bis(trifluoromethyl)-1,2-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.	0.9	43
8	Recent Advances in Synthesis of Difluoromethylene Phosphonates for Biological Applications. <i>Advanced Synthesis and Catalysis</i> , 2021, 363, 2912-2968.	2.1	42
9	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.	1.3	29
10	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.	4.0	27
11	Advances in Trifluoromethylating Phosphorus Compounds. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1996, 109, 597-600.	0.8	25
12	Facile syntheses of tris(trifluoromethyl)phosphine and difluoro-tris(trifluoromethyl) phosphorane. <i>Journal of Fluorine Chemistry</i> , 1996, 79, 103-104.	0.9	24
13	New Chiral Reagent for Installation of Pharmacophoric (<i>S</i>)- or (<i>R</i>)-2-(alkoxyphosphono)aminoethyl Groups. <i>Chemistry - A European Journal</i> , 2016, 22, 7036-7040.		24
14	NHC ⁺ SiCl ₄ : An Ambivalent Carbene Transfer Reagent. <i>Chemistry - A European Journal</i> , 2015, 21, 893-899.	1.7	22
15	In Situ Generation of Unstable Difluoromethylphosphonate-Containing Diazoalkanes and Their Use in [3 + 2] Cycloaddition Reactions with Vinyl Sulfones. <i>Organic Letters</i> , 2021, 23, 1130-1134.	2.4	22
16	Functional Compounds Based on Hypervalent Sulfur Fluorides. <i>ACS Symposium Series</i> , 2007, , 221-243.	0.5	21
17	Are intramolecular frustrated Lewis pairs also intramolecular catalysts? A theoretical study on H ₂ activation. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 10687-10698.	1.3	21
18	SF ₅ -Enolates in Ti(IV)-Mediated Aldol Reactions. <i>Journal of Organic Chemistry</i> , 2016, 81, 6783-6791.	1.7	21

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19	Design of (1,1-diazo-1,1-difluoroethyl)phosphonates and their application as masked carbenes in visible light-promoted coupling reactions with sulfonic acids. <i>Organic Chemistry Frontiers</i> , 2021, 8, 767-772.	2.3	20
20	Reaktionen des 2,2,2-Trifluor-4,4,5,5-tetrakis(trifluormethyl)-1,3,2λ ⁵ -dioxaphospholans. <i>Chemische Berichte</i> , 1977, 110, 611-618.	0.2	19
21	A Convenient Approach to CF ₃ -Containing N-Heterocycles Based on 2-Methoxy-2-methyl-5-(trifluoromethyl)furan-3(2H)-one. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 5236-5245.		19
22	Über die Reaktionen von Phosphanen MenP[OCH(CF ₃) ₂] _{3-n} mit Hexafluoroaceton / Reactions of Phosphanes MenP[OCH(CF ₃) ₂] _{3-n} with Hexafluoroacetone. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1978, 33, 131-135.	0.3	18
23	Darstellung von 2-Amino-1,3,2λ ⁵ (1,5)-dioxaphospholanen / Synthesis of 2-Amino-1,3,2λ ⁵ (1,5)-dioxaphospholanes. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1981, 36, 1071-1079.	0.3	17
24	Esterification of Carboxylic Acids with (1,1-Diazo-1,1-difluoroethyl)phosphonates under Photochemical Conditions. <i>Acta Chimica Sinica</i> , 2021, 79, 747.	0.5	17
25	Fluorophosphoranes containing the perfluoropinacolyl ring system. Part II. Synthesis and nuclear magnetic resonance studies. <i>Journal of the Chemical Society Dalton Transactions</i> , 1975, , 918-924.	1.1	16
26	Über 2-tert-Butyl-1,3,2λ ⁵ -dioxaphospholane und 2-tert-Butyl-1,2λ ⁵ -oxaphosphetane. <i>Chemische Berichte</i> , 1979, 112, 2380-2388.	0.2	16
27	Synthesis of 5-aryl-2-hydroxy-2-(trifluoromethyl)furan-3(2H)-ones and their reactions with aromatic 1,2-diamines, hydrazine and hydroxylamine. <i>Tetrahedron</i> , 2015, 71, 8535-8543.	1.0	16
28	Synthesis of 2-(trifluoroacetyl)chromones and their reactions with 1,2-diamines. <i>Tetrahedron</i> , 2015, 71, 1822-1830.	1.0	15
29	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.	1.3	15
30	Über die Insertion von Hexafluoroaceton in P-H-Bindungen von Phosphanen Me _n PE _{3-n} / The Insertion of Hexafluoroacetone into P-H Bonds of Phosphanes Me _n PE _{3-n} . <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1978, 33, 311-315.	0.3	15
31	Shutdown potential adjustment of modified carbene adducts as additives for lithium ion battery electrolytes. <i>Journal of Power Sources</i> , 2017, 367, 72-79.	4.0	14
32	Notizen: Phosphoranes with a Chiral Centre Containing the 1,2-Oxaphosphetane Ring System. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1977, 32, 599-600.	0.3	13
33	The self-disproportionation of enantiomers (SDE) via column chromatography of 1,1-diazo-1,1-difluorophosphonic acid derivatives. <i>Amino Acids</i> , 2019, 51, 1377-1385.	1.2	13
34	Non-Flammable Fluorinated Phosphorus(III)-Based Electrolytes for Advanced Lithium-Ion Battery Performance. <i>ChemElectroChem</i> , 2020, 7, 1499-1508.	1.7	13
35	Facile synthesis of (1,1-chlorodifluoroethyl)phosphonates via chlorination reaction of difluoroalkyl diazo derivatives with HCl. <i>Chinese Chemical Letters</i> , 2022, 33, 2429-2432.	4.8	13
36	Notizen: Darstellung von Halogensulfensäurederivaten des räumlich anspruchsvollen 2,2,6,6-Tetramethylpiperidins / Synthesis of Halogen Sulfenic Acid Derivatives of the Bulky 2,2,6,6-Tetramethylpiperidine. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1977, 32, 721-722.	0.3	12

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37	The synthesis of a trifluorophosphorane and a diazadiphosphetidine containing the perfluoropinacolyl ring system. <i>Journal of the Chemical Society Chemical Communications</i> , 1974, , 694-695.	2.0	11
38	P-bis(trifluoromethyl) ylides: Synthesis and reactions. <i>Heteroatom Chemistry</i> , 2002, 13, 650-653.	0.4	11
39	Synthesis and Reactivity of New Functionalized Perfluoroalkylfluorophosphates. <i>Chemistry - A European Journal</i> , 2014, 20, 7736-7745.	1.7	11
40	Highly reactive carbenes as ligands for main group element fluorides. Syntheses and applications. <i>Journal of Fluorine Chemistry</i> , 2015, 171, 4-11.	0.9	11
41	Janus Face All-cis-1,2,4,5-tetrakis(trifluoromethyl)- and All-cis-1,2,3,4,5,6-hexakis(trifluoromethyl)-Cyclohexanes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19905-19909.	7.2	11
42	Synthesis of (±,±-Difluoropropargyl)phosphonates via Aldehyde-to-Alkyne Homologation. <i>Journal of Organic Chemistry</i> , 2013, 78, 3697-3708.	1.7	10
43	Synthesis of Trifluoromethylated Analogues of 4,5-Dihydroorotic Acid. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 1290-1301.	1.2	10
44	±-Amino-±-difluoro-±-phosphonoglutamic Acid Derivatives: An Unexplored, Multifaceted Structural Type of Tailor-Made ±-Amino Acids. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 3451-3456.	1.2	10
45	Hypervalent-iodine mediated one-pot synthesis of isoxazolines and isoxazoles bearing a difluoromethyl phosphonate moiety. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 4871-4876.	1.5	9
46	Ein stabiles acyclisches Alkoxyhalogensulfuran: Chlor-tris(2,2,2-trifluor-1,1,1-trifluormethylethoxy)sulfuran. <i>Angewandte Chemie</i> , 1977, 89, 900-900.	1.6	8
47	Spirophosphoranes Containing the Perfluoropinacolyl Ring System. <i>Israel Journal of Chemistry</i> , 1978, 17, 141-143.	1.0	8
48	Mediator and Additive Free Trifluoromethyl-Fluorination of Terminal Alkenes by Persistent Perfluoroalkyl Radical. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 4417-4421.	1.2	8
49	Complementary bonding analysis of the N-Si interaction in pentacoordinated silicon compounds using quantum crystallography. <i>Dalton Transactions</i> , 2019, 48, 16330-16339.	1.6	8
50	A Selectfluor-promoted oxidative reaction of disulfides and amines: access to sulfinamides. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 3761-3766.	1.5	8
51	[3+2] Cycloaddition reactions of ±-diazo-±-difluoromethylphosphonates with ±,±-unsaturated esters. <i>Journal of Fluorine Chemistry</i> , 2021, 251, 109899.	0.9	8
52	One-Pot Reaction of (±-Amino-±-difluoroethyl)phosphonates with Trifluoromethylated Ketones via Aza-Wittig Reagents. <i>Advanced Synthesis and Catalysis</i> , 2022, 364, 1969-1974.	2.1	8
53	Nuclear magnetic resonance studies of 4,4-bis(trifluoromethyl)-1,2-oxaphosphetans; through-space coupling as a guide to ground-state structures of cyclic phosphoranes. <i>Journal of the Chemical Society Dalton Transactions</i> , 1977, , 1492-1497.	1.1	7
54	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.	1.1	7

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55	Synthesis and Characterization of Oxazaborinin Phosphonate for Blue OLED Emitter Applications. ChemPhysChem, 2019, 20, 665-671.	1.0	7
56	Difluorobis(pentafluoroethyl)phosphoranide: A Promising Building Block for Phosphoranidometal Complexes. Inorganic Chemistry, 2021, 60, 16466-16473.	1.9	7
57	Notizen: Ein Bis(perfluoropinacolyl)spiroposphoran / A Bis(perfluoropinacolyl)spiroposphorane. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 1979, 34, 107-108.	0.3	6
58	Reaktionen von ClS[OCH(CF ₃) ₂] ₃ und S[OCH(CF ₃) ₂] ₂ mit Phosphor(III)-Verbindungen. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1981, 479, 158-164.	0.6	6
59	Fluorophosphoranes containing the perfluoropinacolyl ring system. Part 5. Estimates of two-step exchange barriers in some amino-derivatives. Journal of the Chemical Society Dalton Transactions, 1977, , 450-455.	1.1	5
60	Janus Face All-cis-1,2,4,5-tetrakis(trifluoromethyl)- and All-cis-1,2,3,4,5,6-hexakis(trifluoromethyl)-Cyclohexanes. Angewandte Chemie, 2020, 132, 20077-20081.	1.6	5
61	Notizen: cis-Bis(trifluorophosphazodifluorophosphine) tetracarbonyl Molybdenum. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 1974, 29, 436-437.	0.3	4
62	Novel synthetic route to perfluoroallyl cyanide (PFACN) reacting perfluoroallyl fluorosulfonate with cyanide. Journal of Fluorine Chemistry, 2018, 210, 65-69.	0.9	4
63	Synthesis, Reactivity and Structural Properties of Trifluoromethylphosphoranides. Chemistry - A European Journal, 2022, , .	1.7	4
64	Fluorophosphoranes containing the perfluoropinacolyl ring system. Part III. Carbon-13 nuclear magnetic resonance studies. Journal of the Chemical Society Dalton Transactions, 1976, , 1440-1443.	1.1	3
65	C-N-, Si-N- und P-N-Bindungsspaltung bei der Umsetzung von Phosphor-pentafluorid mit einem N-Trimethylsilyl-N-tert-butylamino-substituierten Fluorophosphin und Fluorophosphoran / C-N, Si-N and P-N Bond Cleavage in Reactions of Phosphorus Pentafluoride with a Fluoro-phosphine and a Fluorophosphorane, Containing the N-Trimethylsilyl-N-tert-butyl Group. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 1980, 35, 1125-1129.	0.3	3
66	The Perfluoropinacolyl Group: A Stabilizing Substituent for Unusual Phosphites and Phosphoranes. ACS Symposium Series, 1981, , 443-446.	0.5	3
67	Pentacoordinated and hexacoordinated compounds. Organophosphorus Chemistry, 0, , 322-348.	0.3	3
68	A Versatile Silver(I) Pentafluorooxosulfate Reagent for the Synthesis of OSF ₅ Compounds. Angewandte Chemie - International Edition, 2021, 60, 17866-17870.	7.2	3
69	Free Difluorobis(pentafluoroethyl)phosphoranide Ion and Its Ligand Properties. Inorganic Chemistry, 2022, 61, 10833-10843.	1.9	2
70	C(CF ₃) ₂ OH and OCH(CF ₃) ₂ Isomerism in some sulfur and phosphorus compounds. Journal of Fluorine Chemistry, 1980, 16, 563.	0.9	1
71	Ein vielseitiges Silber(I)-pentafluorooxosulfat-Reagenz für die Synthese von OSF ₅ -Verbindungen. Angewandte Chemie, 2021, 133, 18010-18014.	1.6	1
72	Recent Progress in Chemistry of SF ₅ -Olefins and Aliphatic Organic Compounds. , 2020, , 251-279.		0

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73	42.19.3 Hexacoordinated Phosphates (Update 2022)., 2022, , .		0
74	42.18.2 Pentacoordinated Phosphoranes (Update 2022)., 2022, , .		0