

# Roald N Leif

## List of Publications by Year in descending order

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Version: 2024-02-01

16  
papers

286  
citations

1163117

8  
h-index

996975

15  
g-index

16  
all docs

16  
docs citations

16  
times ranked

285  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Efficient, Optimized Synthesis of Fentanyl and Related Analogs. <i>PLoS ONE</i> , 2014, 9, e108250.	2.5	65
2	Analysis of chemical warfare agents by gas chromatography-mass spectrometry: methods for their direct detection and derivatization approaches for the analysis of their degradation products. <i>Reviews in Analytical Chemistry</i> , 2018, 37, .	3.2	61
3	Effective methylation of phosphonic acids related to chemical warfare agents mediated by trimethyloxonium tetrafluoroborate for their qualitative detection and identification by gas chromatography-mass spectrometry. <i>Analytica Chimica Acta</i> , 2016, 933, 134-143.	5.4	31
4	Methylation protocol for the retrospective detection of isopropyl-, pinacolyl- and cyclohexylmethylphosphonic acids, indicative markers for the nerve agents sarin, soman and cyclosarin, at low levels in soils using EI-GC-MS. <i>Science of the Total Environment</i> , 2019, 683, 175-184.	8.0	26
5	Efficient derivatization of methylphosphonic and aminoethylsulfonic acids related to nerve agents simultaneously in soils using trimethyloxonium tetrafluoroborate for their enhanced, qualitative detection and identification by EI-GC-MS and GC-SPD. <i>Forensic Science International</i> , 2018, 288, 159-168.	2.2	23
6	Analysis of Organophosphorus-Based Nerve Agent Degradation Products by Gas Chromatography-Mass Spectrometry (GC-MS): Current Derivatization Reactions in the Analytical Chemist's Toolbox. <i>Molecules</i> , 2021, 26, 4631.	3.8	21
7	Derivatization of pinacolyl alcohol with phenyldimethylchlorosilane for enhanced detection by gas chromatography-mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 5231-5234.	3.7	18
8	Assessing the reliability of the NIST library during routine GC-MS analyses: Structure and spectral data corroboration for 5,5-diphenyl-1,3-dioxolan-4-one during a recent OPCW proficiency test. <i>Journal of Mass Spectrometry</i> , 2018, 53, 419-422.	1.6	11
9	Chemical tagging of chlorinated phenols for their facile detection and analysis by NMR spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 3539-3543.	3.7	6
10	Carbene-based Difluoromethylation of Bisphenols: Application to the Instantaneous Tagging of Bisphenol A in Spiked Soil for Its Detection and Identification by Electron Ionization Gas Chromatography-Mass Spectrometry. <i>Scientific Reports</i> , 2019, 9, 17360.	3.3	6
11	Acylation as a successful derivatization strategy for the analysis of pinacolyl alcohol in a glycerol-rich matrix by GC-MS: application during an OPCW Proficiency Test. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 3145-3151.	3.7	5
12	Structural modification of fentanyls for their retrospective identification by gas chromatographic analysis using chloroformate chemistry. <i>Scientific Reports</i> , 2021, 11, 22489.	3.3	4
13	Simultaneous and Practical Difluoromethylation of Triclosan, 2,4,6-Trichlorophenol and Pentachlorophenol in Soils for their Qualitative Detection by Electron Ionization GC-MS. <i>Analytical Chemistry Letters</i> , 2017, 7, 11-19.	1.0	3
14	Trocylation of 3-quinuclidinol, a key marker for the chemical warfare agent 3-quinuclidinyl benzilate, for its enhanced detection at low levels in complex soil matrices by electron ionization gas chromatography-mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2021, 35, e9123.	1.5	3
15	Trimethyloxonium-mediated methylation strategies for the rapid and simultaneous analysis of chlorinated phenols in various soils by electron impact gas chromatography-mass spectrometry. <i>Scientific Reports</i> , 2022, 12, 1401.	3.3	3
16	Kinetic Studies on the Green and Practical Iodide-mediated Dealkylation of Tributylphosphate (TBP) using Nuclear Magnetic Resonance Spectroscopy. <i>Analytical Chemistry Letters</i> , 2017, 7, 470-478.	1.0	0