

Markus Siegert

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Nontargeted High-Resolution Mass Spectrometric Workflow for the Detection of Butyrylcholinesterase-Derived Adducts with Organophosphorus Toxicants and Structural Characterization of Their Phosphyl Moiety after In-Source Fragmentation. <i>Analytical Chemistry</i> , 2022, 94, 2048-2055.	3.2	8
2	Highly stable peptide adducts from hard keratins as biomarkers to verify local sulfur mustard exposure of hair by high-resolution mass spectrometry. <i>Archives of Toxicology</i> , 2022, 96, 2287-2298.	1.9	1
3	Identification of creatine kinase and alpha α 1 antitrypsin as protein targets of alkylation by sulfur mustard. <i>Drug Testing and Analysis</i> , 2021, 13, 268-282.	1.6	9
4	Alkylated epidermal creatine kinase as a biomarker for sulfur mustard exposure: comparison to adducts of albumin and DNA in an in vivo rat study. <i>Archives of Toxicology</i> , 2021, 95, 1323-1333.	1.9	9
5	Evidence of exposure to organophosphorus toxicants by detection of the propionylated butyrylcholinesterase-derived nonapeptide-adduct as a novel biomarker. <i>Forensic Science International</i> , 2021, 323, 110818.	1.3	6
6	Alkylated albumin-derived dipeptide C-(HETE)P derivatized by propionic anhydride as a biomarker for the verification of poisoning with sulfur mustard. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 4907-4916.	1.9	3
7	Alkylation of rabbit muscle creatine kinase surface methionine residues inhibits enzyme activity in vitro. <i>Archives of Toxicology</i> , 2021, 95, 3253-3261.	1.9	0
8	Adduct of the blistering warfare agent sesquimustard with human serum albumin and its mass spectrometric identification for biomedical verification of exposure. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 7723-7737.	1.9	14
9	Skin sensitizing effects of sulfur mustard and other alkylating agents in accordance to OECD guidelines. <i>Toxicology Letters</i> , 2019, 314, 172-180.	0.4	6
10	Forensic evidence of sulfur mustard exposure in real cases of human poisoning by detection of diverse albumin-derived protein adducts. <i>Archives of Toxicology</i> , 2019, 93, 1881-1891.	1.9	36
11	Collision α induced mass spectrometric fragmentation of protonated dimethoate and omethoate generated by electrospray ionization. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 259-271.	0.7	1
12	Methionine ³²⁹ in human serum albumin: A novel target for alkylation by sulfur mustard. <i>Drug Testing and Analysis</i> , 2019, 11, 659-668.	1.6	15
13	A novel exposure system generating nebulized aerosol of sulfur mustard in comparison to the standard submerge exposure. <i>Chemico-Biological Interactions</i> , 2019, 298, 121-128.	1.7	1
14	Bioanalytical verification of V-type nerve agent exposure: simultaneous detection of phosphonylated tyrosines and cysteine-containing disulfide-adducts derived from human albumin. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 1463-1474.	1.9	25
15	Glutathione as an antidote for sulfur mustard poisoning: Mass spectrometric investigations of its potency as a chemical scavenger. <i>Toxicology Letters</i> , 2018, 293, 31-37.	0.4	14
16	A toolbox for microbore liquid chromatography tandem-high-resolution mass spectrometry analysis of albumin-adducts as novel biomarkers of organophosphorus pesticide poisoning. <i>Toxicology Letters</i> , 2018, 292, 46-54.	0.4	17
17	N α -Acetylcysteine as a chemical scavenger for sulfur mustard: New insights by mass spectrometry. <i>Drug Testing and Analysis</i> , 2018, 10, 243-253.	1.6	7
18	Protonation of <i>p</i> -Benzoquinone in Superacidic Solutions. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2018, 644, 1564-1569.	0.6	2

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19	Verification of organophosphorus pesticide poisoning: Detection of phosphorylated tyrosines and a cysteine-proline disulfide-adduct from human serum albumin after intoxication with dimethoate/omethoate. <i>Toxicology Letters</i> , 2018, 299, 11-20.	0.4	20
20	Novel cysteine- and albumin-adduct biomarkers to prove human poisoning with the pesticide oxydemeton-S-methyl. <i>Toxicology Letters</i> , 2018, 294, 122-134.	0.4	18
21	N-Acetyl-l-cysteine inhibits sulfur mustard-induced and TRPA1-dependent calcium influx. <i>Archives of Toxicology</i> , 2017, 91, 2179-2189.	1.9	34
22	Procedures for Analysis of Dried Plasma Using Microsampling Devices to Detect Sulfur Mustard-Albumin Adducts for Verification of Poisoning. <i>Analytical Chemistry</i> , 2016, 88, 8787-8794.	3.2	52
23	Characterization of sulfur mustard resistant keratinocyte cell line HaCaT/SM. <i>Toxicology Letters</i> , 2016, 244, 49-55.	0.4	10
24	Sulfur and nitrogen mustards induce characteristic poly(ADP-ribosyl)ation responses in HaCaT keratinocytes with distinctive cellular consequences. <i>Toxicology Letters</i> , 2016, 244, 56-71.	0.4	29
25	Optimized verification method for detection of an albumin-sulfur mustard adduct at Cys34 using a hybrid quadrupole time-of-flight tandem mass spectrometer after direct plasma proteolysis. <i>Toxicology Letters</i> , 2016, 244, 103-111.	0.4	38
26	Nitridomagnesosilicate $Ba[Mg_3SiN_4]:Eu^{2+}$ and Structure-Property Relations of Similar Narrow-Band Red Nitride Phosphors. <i>Chemistry of Materials</i> , 2015, 27, 1780-1785.	3.2	88
27	Narrow-Band Green Emitting Nitridolithoalumosilicate $Ba[Li_2(Al_2Si_2)N_6]:Eu^{2+}$ with Framework Topology <i>whj</i> for LED/LCD-Backlighting Applications. <i>Chemistry of Materials</i> , 2015, 27, 6109-6115.	3.2	113