

# JÃ¼rgen Schiller

## List of Publications by Year in descending order

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216  
papers

7,850  
citations

46984

47  
h-index

74108

75  
g-index

220  
all docs

220  
docs citations

220  
times ranked

8062  
citing authors

#	ARTICLE	IF	CITATIONS
1	A new update of MALDI-TOF mass spectrometry in lipid research. <i>Progress in Lipid Research</i> , 2022, 86, 101145.	5.3	30
2	Seminal lipid profiling and antioxidant capacity: A species comparison. <i>PLoS ONE</i> , 2022, 17, e0264675.	1.1	4
3	<i>Mycobacterium tuberculosis</i> Affects Protein and Lipid Content of Circulating Exosomes in Infected Patients Depending on Tuberculosis Disease State. <i>Biomedicines</i> , 2022, 10, 783.	1.4	10
4	Reduced lipolysis in lipoma phenocopies lipid accumulation in obesity. <i>International Journal of Obesity</i> , 2021, 45, 565-576.	1.6	14
5	Chemically modified glycosaminoglycan derivatives as building blocks for biomaterial coatings and hydrogels. <i>Biological Chemistry</i> , 2021, 402, 1385-1395.	1.2	10
6	Insights into structure, affinity, specificity, and function of GAG-protein interactions through the chemoenzymatic preparation of defined sulfated oligohyaluronans. <i>Biological Chemistry</i> , 2021, 402, 1375-1384.	1.2	3
7	Differences in the sperm metabolomes of smoking and nonsmoking men. <i>Biology of Reproduction</i> , 2021, 105, 1484-1493.	1.2	11
8	AdipoAtlas: A reference lipidome for human white adipose tissue. <i>Cell Reports Medicine</i> , 2021, 2, 100407.	3.3	60
9	Characterization of defined sulfated heparin-like oligosaccharides by electrospray ionization ion trap mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2021, 56, e4692.	0.7	10
10	The value of coupling thin-layer chromatography to mass spectrometry in lipid research - a review. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2021, 1185, 123001.	1.2	12
11	Phospholipases and Reactive Oxygen Species Derived Lipid Biomarkers in Healthy and Diseased Humans and Animals – A Focus on Lysophosphatidylcholine. <i>Frontiers in Physiology</i> , 2021, 12, 732319.	1.3	22
12	Performances of ionic liquid matrices with butyl ammonium counterion for matrix-assisted laser desorption/ionization mass spectrometric detection and analysis of sucralose. <i>Journal of Carbohydrate Chemistry</i> , 2020, 39, 1-23.	0.4	8
13	Increased plasma phosphatidylcholine/lysophosphatidylcholine ratios in patients with Parkinson's disease. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8595.	0.7	19
14	Differences in the lipid patterns during maturation of 3T3-L1 adipocytes investigated by thin-layer chromatography, gas chromatography, and mass spectrometric approaches. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 2237-2249.	1.9	7
15	Assisted reproduction for felid species conservation – Sperm competences at risk. <i>Reproduction in Domestic Animals</i> , 2020, 55, 55-60.	0.6	2
16	De novo synthesis of phospholipids and sphingomyelin in multipotent stromal cells - Monitoring studies by mass spectrometry. <i>Chemistry and Physics of Lipids</i> , 2020, 232, 104965.	1.5	4
17	Deletion of Perilipin 5 Protects against Hepatic Injury in Nonalcoholic Fatty Liver Disease via Missing Inflammasome Activation. <i>Cells</i> , 2020, 9, 1346.	1.8	15
18	The repertoire of Adhesion G protein-coupled receptors in adipocytes and their functional relevance. <i>International Journal of Obesity</i> , 2020, 44, 2124-2136.	1.6	26

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19	Different glycolipids in sperm from different freshwater fishes â€œ A highâ€ performance thinâ€ layer chromatography/electrospray ionization mass spectrometry study. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8875.	0.7	8
20	Sperm Lipid Composition in Early Diverged Fish Species: Internal vs. External Mode of Fertilization. <i>Biomolecules</i> , 2020, 10, 172.	1.8	11
21	Vesiculation of Red Blood Cells in the Blood Bank: A Multi-Omics Approach towards Identification of Causes and Consequences. <i>Proteomes</i> , 2020, 8, 6.	1.7	12
22	What Can MS, NMR, and TLC Tell Us About the Composition of Lipid Membranes?. <i>Springer Protocols</i> , 2020, , 59-82.	0.1	1
23	MALDI MS Analysis to Investigate the Lipid Composition of Sperm. <i>Current Analytical Chemistry</i> , 2020, 16, 79-91.	0.6	2
24	Normalâ€ phase versus reversedâ€ phase thinâ€ layer chromatography (TLC) to monitor oxidized phosphatidylcholines by TLC/mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 60-65.	0.7	10
25	Synthesis and in silico characterization of artificially phosphorylated glycosaminoglycans. <i>Journal of Molecular Structure</i> , 2019, 1197, 401-416.	1.8	8
26	Syntheses of defined sulfated oligohyaluronans reveal structural effects, diversity and thermodynamics of GAGâ€ protein binding. <i>Chemical Science</i> , 2019, 10, 866-878.	3.7	30
27	Short-chain lipid-conjugated pH sensors for imaging of transporter activities in reconstituted systems and living cells. <i>Analyst</i> , The, 2019, 144, 3030-3037.	1.7	7
28	Swimming at different temperatures: The lipid composition of sperm from three freshwater fish species determined by mass spectrometry and nuclear magnetic resonance spectroscopy. <i>Chemistry and Physics of Lipids</i> , 2019, 221, 65-72.	1.5	20
29	Metabolomic profiling reveals correlations between spermogram parameters and the metabolites present in human spermatozoa and seminal plasma. <i>PLoS ONE</i> , 2019, 14, e0211679.	1.1	55
30	The lipid head group is the key element for substrate recognition by the P4 ATPase ALA2: a phosphatidylserine flippase. <i>Biochemical Journal</i> , 2019, 476, 783-794.	1.7	12
31	Genetic diversity of <i>Legionella pcs</i> and <i>pmtA</i> genes and the effect of utilization of choline by <i>Legionella</i> spp. on induction of proinflammatory cytokines. <i>Pathogens and Disease</i> , 2019, 77, .	0.8	8
32	Phospholipase A2 products predict the hematopoietic support capacity of horse serum. <i>Differentiation</i> , 2019, 105, 27-32.	1.0	5
33	Automated semen analysis by SQA VisionÂ versus the manual approach-A prospective double-blind study. <i>Andrologia</i> , 2019, 51, e13149.	1.0	22
34	The combination of 2,5-dihydroxybenzoic acid and 2,5-dihydroxyacetophenone matrices for unequivocal assignment of phosphatidylethanolamine species in complex mixtures. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 2437-2447.	1.9	22
35	High-Fat Diet Exacerbates Early Psoriatic Skin Inflammation Independent of Obesity: Saturated Fatty Acids as Key Players. <i>Journal of Investigative Dermatology</i> , 2018, 138, 1999-2009.	0.3	102
36	<i>De novo</i> synthesis of glycosaminoglycans by equine multipotent mesenchymal stromal cells <i>in vitro</i> â€ Studied by stable isotopic labeling and matrix-assisted laser desorption ionization mass spectrometry. <i>Journal of Carbohydrate Chemistry</i> , 2018, 37, 69-80.	0.4	2

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37	The fluid membrane determines mechanics of erythrocyte extracellular vesicles and is softened in hereditary spherocytosis. <i>Nature Communications</i> , 2018, 9, 4960.	5.8	79
38	Recent Developments of Useful MALDI Matrices for the Mass Spectrometric Characterization of Lipids. <i>Biomolecules</i> , 2018, 8, 173.	1.8	141
39	Visualizing phosphatidylcholine via mass spectrometry imaging: relevance to human health. <i>Expert Review of Proteomics</i> , 2018, 15, 791-800.	1.3	5
40	Nanomechanics of Extracellular Vesicles Reveals Vesiculation Pathways. <i>Small</i> , 2018, 14, e1801650.	5.2	48
41	Covalent Binding of Maleic Anhydride Copolymer Monolayers to Polyacrylamide Hydrogels. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1800206.	1.1	3
42	The presence of the fluorescence indicator (F254) changes the TLC migration properties of selected phospholipids. <i>Journal of Planar Chromatography - Modern TLC</i> , 2018, 31, 409-411.	0.6	3
43	A comparison of PC oxidation products as detected by MALDI-TOF and ESI-IT mass spectrometry. <i>Chemistry and Physics of Lipids</i> , 2017, 203, 33-45.	1.5	8
44	A High-Resolution NMR Approach Combined to MALDI-TOF-MS to Estimate the Positional Distribution of Acyl-Linked Unsaturated Fatty Acids in Triacylglycerols. <i>Food Analytical Methods</i> , 2017, 10, 2497-2506.	1.3	4
45	Membrane permeation of arginine-rich cell-penetrating peptides independent of transmembrane potential as a function of lipid composition and membrane fluidity. <i>Journal of Controlled Release</i> , 2017, 256, 68-78.	4.8	58
46	Addition of CsCl reduces ion suppression effects in the matrix-assisted laser desorption/ionization mass spectra of triacylglycerol/phosphatidylcholine mixtures and adipose tissue extracts. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 411-418.	0.7	10
47	Tat transport in <i>Escherichia coli</i> requires zwitterionic phosphatidylethanolamine but no specific negatively charged phospholipid. <i>FEBS Letters</i> , 2017, 591, 2848-2858.	1.3	9
48	Inflammatory pain control by blocking oxidized phospholipid-mediated TRP channel activation. <i>Scientific Reports</i> , 2017, 7, 5447.	1.6	53
49	The Phospholipid Composition of Kangaroo Spermatozoa Verified by Mass Spectrometric Lipid Analysis. <i>Lipids</i> , 2017, 52, 857-869.	0.7	13
50	Combined Use of MALDI-TOF Mass Spectrometry and <sup>31</sup> P NMR Spectroscopy for Analysis of Phospholipids. <i>Methods in Molecular Biology</i> , 2017, 1609, 107-122.	0.4	6
51	Metabolic profiling of zebrafish ( <i>Danio rerio</i> ) embryos by NMR spectroscopy reveals multifaceted toxicity of l <sup>2</sup> -methylamino-L-alanine (BMAA). <i>Scientific Reports</i> , 2017, 7, 17305.	1.6	35
52	Altered hepatic lipid metabolism in mice lacking both the melanocortin type 4 receptor and low density lipoprotein receptor. <i>PLoS ONE</i> , 2017, 12, e0172000.	1.1	15
53	Chlorinated Phospholipids and Fatty Acids: (Patho)physiological Relevance, Potential Toxicity, and Analysis of Lipid Chlorohydrins. <i>Oxidative Medicine and Cellular Longevity</i> , 2016, 2016, 1-26.	1.9	27
54	Severe Atherosclerosis and Hypercholesterolemia in Mice Lacking Both the Melanocortin Type 4 Receptor and Low Density Lipoprotein Receptor. <i>PLoS ONE</i> , 2016, 11, e0167888.	1.1	6

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55	Chemoenzymatic Synthesis of Nonasulfated Tetrahyaluronan with a Paramagnetic Tag for Studying Its Complex with Interleukinâ€10. <i>Chemistry - A European Journal</i> , 2016, 22, 5563-5574.	1.7	35
56	Unexpected products of the hypochlorous acid-induced oxidation of oleic acid: A study using high performance thin-layer chromatographyâ€electrospray ionization mass spectrometry. <i>Journal of Chromatography A</i> , 2016, 1439, 89-96.	1.8	12
57	Inflammation-associated changes in lipid composition and the organization of the erythrocyte membrane. <i>BBA Clinical</i> , 2016, 5, 186-192.	4.1	49
58	The selected matrix influences the matrixâ€assisted laser desorption/ionization timeâ€ofâ€flight mass spectral patterns of partially deuterated glycosaminoglycan disaccharides. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 2164-2170.	0.7	4
59	Oneâ€Pot Synthesis of Unprotected Anomeric Glycosyl Thiols in Water for Glycan Ligation Reactions with Highly Functionalized Sugars. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15510-15514.	7.2	40
60	Comparison of ion mobility-mass spectrometry and pulsed-field gradient nuclear magnetic resonance spectroscopy for the differentiation of chondroitin sulfate isomers. <i>Analytical Methods</i> , 2016, 8, 8483-8491.	1.3	13
61	Free fatty acids sensitize dendritic cells to amplify TH1/TH17â€immune responses. <i>European Journal of Immunology</i> , 2016, 46, 2043-2053.	1.6	65
62	Direct observation of proton pumping by a eukaryotic P-type ATPase. <i>Science</i> , 2016, 351, 1469-1473.	6.0	81
63	Structural, biological and biophysical properties of glycated and glycoxidized phosphatidylethanolamines. <i>Free Radical Biology and Medicine</i> , 2016, 95, 293-307.	1.3	19
64	Towards Understanding Male Infertility After Spinal Cord Injury Using Quantitative Proteomics. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 1424-1434.	2.5	26
65	MALDI-TOF MS to monitor the kinetics of phospholipase A2-digestion of oxidized phospholipids. <i>Methods</i> , 2016, 104, 41-47.	1.9	9
66	Preparative Thin Layer Chromatography of (Phospho) Lipids. , 2016, , 1-8.		0
67	Structural analysis of the interleukin-8/glycosaminoglycan interactions by amide hydrogen/deuterium exchange mass spectrometry. <i>Methods</i> , 2015, 89, 45-53.	1.9	21
68	Biosynthetic preparation of selectively deuterated phosphatidylcholine in genetically modified <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 241-254.	1.7	31
69	Nutrition-dependent changes of mouse adipose tissue compositions monitored by NMR, MS, and chromatographic methods. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 5113-5123.	1.9	15
70	Cell membrane softening in human breast and cervical cancer cells. <i>New Journal of Physics</i> , 2015, 17, 083008.	1.2	36
71	Analysis of Glycosaminoglycan Oligosaccharides by Combined HPTLC/MALDI-TOF MS: Reduced Silica Gel Thickness Leads to Improved Spectral Qualities and Reduced Side Reactions. <i>Chromatographia</i> , 2015, 78, 1409-1413.	0.7	6
72	Lipid-conjugated fluorescent pH sensors for monitoring pH changes in reconstituted membrane systems. <i>Analyst</i> , The, 2015, 140, 6313-6320.	1.7	29

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73	Separation of (Phospho)Lipids by Thin-Layer Chromatography. , 2015, , 375-405.		4
74	Formation and Characterization of Supported Lipid Bilayers Composed of Hydrogenated and Deuterated Escherichia coli Lipids. PLoS ONE, 2015, 10, e0144671.	1.1	47
75	Improvement of the Digestibility of Sulfated Hyaluronans by Bovine Testicular Hyaluronidase: A UV Spectroscopic and Mass Spectrometric Study. BioMed Research International, 2014, 2014, 1-8.	0.9	16
76	In vitro glycation and glycooxidation of phosphatidylethanolamines. Free Radical Biology and Medicine, 2014, 75, S21-S22.	1.3	3
77	Evaluation of a commercial enzymatic test kit regarding the quantitative analysis of different free fatty acids. Analytical and Bioanalytical Chemistry, 2014, 406, 7401-7405.	1.9	2
78	Zebrafish Brain Lipid Characterization and Quantification by <sup>1</sup> H Nuclear Magnetic Resonance Spectroscopy and MALDI-TOF Mass Spectrometry. Zebrafish, 2014, 11, 240-247.	0.5	13
79	2,5-Dihydroxybenzoic acid salts for matrix-assisted laser desorption/ionization time-of-flight mass spectrometric lipid analysis: Simplified spectra interpretation and insights into gas-phase fragmentation. Rapid Communications in Mass Spectrometry, 2014, 28, 1353-1363.	0.7	22
80	Metabolic incorporation of unsaturated fatty acids into boar spermatozoa lipids and de novo formation of diacylglycerols. Chemistry and Physics of Lipids, 2014, 177, 41-50.	1.5	10
81	Analysis of Free Fatty Acids by Ultraviolet Laser Desorption Ionization Mass Spectrometry Using Insect Wings as Hydrophobic Sample Substrates. Analytical Chemistry, 2014, 86, 10763-10771.	3.2	19
82	A simple method to generate oxidized phosphatidylcholines in amounts close to one milligram. Chemistry and Physics of Lipids, 2014, 184, 30-37.	1.5	7
83	Glycosaminoglycan Degradation by Selected Reactive Oxygen Species. Antioxidants and Redox Signaling, 2014, 21, 1044-1062.	2.5	20
84	A MALDI MS Investigation of the Lysophosphatidylcholine/Phosphatidylcholine Ratio in Human Spermatozoa and Erythrocytes as a Useful Fertility Marker. Lipids, 2014, 49, 287-293.	0.7	19
85	Stationary phase thickness determines the quality of thin-layer chromatography/matrix-assisted laser desorption and ionization mass spectra of lipids. Analytical Biochemistry, 2014, 451, 45-47.	1.1	33
86	Stealth carriers for low-resolution structure determination of membrane proteins in solution. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 317-328.	2.5	63
87	A simple method to identify ether lipids in spermatozoa samples by MALDI-TOF mass spectrometry. Analytical and Bioanalytical Chemistry, 2013, 405, 6675-6682.	1.9	18
88	The pore size of PLGA bone implants determines the de novo formation of bone tissue in tibial head defects in rats. Magnetic Resonance in Medicine, 2013, 70, 925-935.	1.9	54
89	Differently Saturated Fatty Acids Can Be Differentiated by <sup>31</sup> P NMR Subsequent to Derivatization with 2-Chloro-4,4,5,5-tetramethyldioxaphospholane: A Cautionary Note. Journal of Agricultural and Food Chemistry, 2013, 61, 2696-2700.	2.4	6
90	Conservation of honey bee (Apis mellifera) sperm phospholipids during storage in the bee queen – A TLC/MALDI-TOF MS study. Experimental Gerontology, 2013, 48, 213-222.	1.2	33

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91	Investigation of lysine side chain interactions of interleukin-8 with heparin and other glycosaminoglycans studied by a methylation-NMR approach. <i>Glycobiology</i> , 2013, 23, 1260-1269.	1.3	40
92	Loss of the Ceramide Transfer Protein Augments EGF Receptor Signaling in Breast Cancer. <i>Cancer Research</i> , 2012, 72, 2855-2866.	0.4	35
93	2,4-Dinitrophenylhydrazine as a New Reactive Matrix to Analyze Oxidized Phospholipids by MALDI-TOF Mass Spectrometry. <i>Analytical Letters</i> , 2012, 45, 968-976.	1.0	22
94	Sulfated Glycosaminoglycan Building Blocks for the Design of Artificial Extracellular Matrices. <i>ACS Symposium Series</i> , 2012, , 315-328.	0.5	5
95	New methods to study the composition and structure of the extracellular matrix in natural and bioengineered tissues. <i>Biomatter</i> , 2012, 2, 115-131.	2.6	26
96	Enhanced lysophosphatidylcholine and sphingomyelin contents are characteristic of spermatozoa from obese menâ€”A MALDI mass spectrometric study. <i>Chemistry and Physics of Lipids</i> , 2012, 165, 861-865.	1.5	20
97	Determination of the Glycosaminoglycan and Collagen Contents in Tissue Samples by High-Resolution <sup>1</sup> H NMR Spectroscopy after DCH-Induced Hydrolysis. <i>Biomacromolecules</i> , 2012, 13, 2110-2117.	2.6	8
98	Synthesis and antiherpetic activity of carboxymethylated and sulfated hyaluronan derivatives. <i>Carbohydrate Polymers</i> , 2012, 90, 608-615.	5.1	32
99	Timeâ€”dependent intensity changes of free fatty acids detected by matrixâ€”assisted laser desorption and ionization timeâ€”of-flight mass spectrometry in the presence of 1,8â€”bisâ€”(dimethylamino)naphthalene â€” a cautionary note. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 1573-1576.	0.7	16
100	Characterization of the interaction of interleukin-8 with hyaluronan, chondroitin sulfate, dermatan sulfate and their sulfated derivatives by spectroscopy and molecular modeling. <i>Glycobiology</i> , 2012, 22, 134-145.	1.3	120
101	De novo biosynthesis of glycosaminoglycans in the extracellular matrix of skin studied by matrix-assisted laser desorption/ionization mass spectrometry. <i>Analytical Biochemistry</i> , 2012, 421, 791-793.	1.1	8
102	Positive ion MALDI-TOF mass spectra are more suitable than negative ion spectra to characterize sulphated glycosaminoglycan oligosaccharides. <i>International Journal of Mass Spectrometry</i> , 2012, 310, 72-76.	0.7	13
103	Leishmania Promastigotes Lack Phosphatidylserine but Bind Annexin V upon Permeabilization or Miltefosine Treatment. <i>PLoS ONE</i> , 2012, 7, e42070.	1.1	74
104	Analysis of Phospholipid Mixtures from Biological Tissues by Matrix-Assisted Laser Desorption and Ionization Time-of-Flight Mass Spectrometry (MALDI-TOF MS): A Laboratory Experiment. <i>Journal of Chemical Education</i> , 2011, 88, 503-507.	1.1	27
105	MALDI-TOF mass spectrometry as a simple tool to determine the phospholipid/glycolipid composition of sperm: Pheasant spermatozoa as one selected example. <i>Animal Reproduction Science</i> , 2011, 123, 270-278.	0.5	17
106	Reduced Food Intake and Body Weight in Mice Deficient for the G Protein-Coupled Receptor GPR82. <i>PLoS ONE</i> , 2011, 6, e29400.	1.1	21
107	Oxygen and cytokine-dependent changes in choline phospholipid saturation in hematopoietic progenitor cells detected by MALDI-TOF mass spectrometry. <i>Chemistry and Physics of Lipids</i> , 2011, 164, 636-642.	1.5	4
108	Parameters affecting the accuracy of the MALDI-TOF MS determination of the phosphatidylcholine/lysophosphatidylcholine (PC/LPC) ratio as potential marker of spermatozoa quality. <i>Chemistry and Physics of Lipids</i> , 2011, 164, 696-702.	1.5	18

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109	Oxidative changes of lipids monitored by MALDI MS. <i>Chemistry and Physics of Lipids</i> , 2011, 164, 782-795.	1.5	68
110	Quantitative analysis of denatured collagen by collagenase digestion and subsequent MALDI-TOF mass spectrometry. <i>Cell and Tissue Research</i> , 2011, 343, 605-617.	1.5	21
111	Sphingomyelin is more sensitively detectable as a negative ion than phosphatidylcholine: a matrix-assisted laser desorption/ionization time-of-flight mass spectrometric study using 9-aminoacridine (9-AA) as matrix. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 1100-1106.	0.7	18
112	Phosphatidylcholine dimers can be easily misinterpreted as cardiolipins in complex lipid mixtures: a matrix-assisted laser desorption/ionization time-of-flight mass spectrometric study of lipids from hepatocytes. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 2619-2626.	0.7	14
113	Chlorinated and brominated phosphatidylcholines are generated under the influence of the Fenton reagent at low pH—a MALDI-TOF MS study. <i>Chemistry and Physics of Lipids</i> , 2011, 164, 1-8.	1.5	15
114	Lipid analysis by thin-layer chromatography—A review of the current state. <i>Journal of Chromatography A</i> , 2011, 1218, 2754-2774.	1.8	304
115	TLC/HPTLC with Direct Mass Spectrometric Detection: A Review of the Progress Achieved in the Last 5 Years. , 2011, , 335-363.		3
116	Brain Tissue Binding of Drugs: Evaluation and Validation of Solid Supported Porcine Brain Membrane Vesicles (TRANSIL) as a Novel High-Throughput Method. <i>Drug Metabolism and Disposition</i> , 2011, 39, 312-321.	1.7	27
117	Thin-layer chromatography combined with MALDI-TOF-MS and <sup>31</sup> P-NMR to study possible selective bindings of phospholipids to silica gel. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 2833-2842.	1.9	22
118	Significant sensitivity improvements by matrix optimization: a MALDI-TOF mass spectrometric study of lipids from hen egg yolk. <i>Chemistry and Physics of Lipids</i> , 2010, 163, 552-560.	1.5	53
119	The intact muscle lipid composition of bulls: an investigation by MALDI-TOF MS and <sup>31</sup> P NMR. <i>Chemistry and Physics of Lipids</i> , 2010, 163, 157-164.	1.5	24
120	An update of MALDI-TOF mass spectrometry in lipid research. <i>Progress in Lipid Research</i> , 2010, 49, 450-475.	5.3	281
121	Synthesis of New Regioselectively Sulfated Hyaluronans for Biomedical Application. <i>Macromolecular Symposia</i> , 2010, 296, 446-452.	0.4	16
122	Recent Developments of Useful MALDI Matrices for the Mass Spectrometric Characterization of Apolar Compounds. <i>Current Organic Chemistry</i> , 2009, 13, 1664-1681.	0.9	51
123	Application of MALDI-TOF mass spectrometry in lipidomics. <i>European Journal of Lipid Science and Technology</i> , 2009, 111, 83-98.	1.0	115
124	Characterization of the quantitative relationship between signal-to-noise (S/N) ratio and sample amount on-target by MALDI-TOF MS: Determination of chondroitin sulfate subsequent to enzymatic digestion. <i>Analytica Chimica Acta</i> , 2009, 635, 175-182.	2.6	34
125	Phosphatidylcholines and -ethanolamines can be easily mistaken in phospholipid mixtures: a negative ion MALDI-TOF MS study with 9-aminoacridine as matrix and egg yolk as selected example. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 395, 2479-2487.	1.9	82
126	Application of flavonoids — quercetin and rutin — as new matrices for matrix-assisted laser desorption/ionization time-of-flight mass spectrometric analysis of Pt(II) and Pd(II) complexes. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 1467-1475.	0.7	19



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127	Lysophosphatidylethanolamine is " in contrast to " choline " generated under in vivo conditions exclusively by phospholipase A2 but not by hypochlorous acid. <i>Bioorganic Chemistry</i> , 2009, 37, 202-210.	2.0	29
128	The new matrix 4-Chloro-Î±-cyanocinnamic acid allows the detection of phosphatidylethanolamine chloramines by MALDI-TOF mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 867-874.	1.2	46
129	Matrix-assisted laser desorption and ionisation time-of-flight mass spectrometry of Pt(II) and Pd(II) complexes. <i>Polyhedron</i> , 2009, 28, 2905-2912.	1.0	10
130	Evaluation of carbon tetrachloride-induced stress on rat hepatocytes by 31P NMR and MALDI-TOF mass spectrometry: lysophosphatidylcholine generation from unsaturated phosphatidylcholines. <i>Chemistry and Physics of Lipids</i> , 2009, 159, 21-29.	1.5	18
131	MALDI-TOF-MS Directly Combined with TLC: A Review of the Current State. <i>Chromatographia</i> , 2009, 69, 95-105.	0.7	101
132	Biophysical Characterization of a New Phospholipid Analogue with a Spin-Labeled Unsaturated Fatty Acyl Chain. <i>Biophysical Journal</i> , 2009, 96, 1008-1015.	0.2	5
133	The solubilisation of boar sperm membranes by different detergents - a microscopic, MALDI-TOF MS, 31P NMR and PAGE study on membrane lysis, extraction efficiency, lipid and protein composition. <i>Lipids in Health and Disease</i> , 2009, 8, 49.	1.2	18
134	Detection of Adducts with Matrix Clusters in the Positive and Negative Ion Mode MALDI-TOF Mass Spectra of Phospholipids. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2009, 64, 331-334.	0.3	14
135	Capabilities and disadvantages of combined matrix-assisted laser-desorption/ionization time-of-flight mass spectrometry (MALDI-TOF MS) and high-performance thin-layer chromatography (HPTLC): Analysis of egg yolk lipids. <i>Journal of Planar Chromatography - Modern TLC</i> , 2009, 22, 35-42.	0.6	45
136	Capabilities and Drawbacks of Phospholipid Analysis by MALDI-TOF Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2009, 579, 103-125.	0.4	12
137	Lysophospholipids: Their Generation, Physiological Role and Detection. Are They Important Disease Markers?. <i>Mini-Reviews in Medicinal Chemistry</i> , 2009, 9, 368-378.	1.1	44
138	Differential efficiency of lysophospholipid markers for oxidative stress. <i>FASEB Journal</i> , 2009, 23, .	0.2	1
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