

# Jrgen Schiller

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

215  
papers

6,443  
citations

44  
h-index

69  
g-index

220  
ext. papers

7,219  
ext. citations

4.1  
avg, IF

5.76  
L-index

#	Paper	IF	Citations
215	A new update of MALDI-TOF mass spectrometry in lipid research.. <i>Progress in Lipid Research</i> , <b>2022</b> , 86, 101145	14.3	2
214	Seminal lipid profiling and antioxidant capacity: A species comparison.. <i>PLoS ONE</i> , <b>2022</b> , 17, e0264675	3.7	0
213	Phospholipases and Reactive Oxygen Species Derived Lipid Biomarkers in Healthy and Diseased Humans and Animals - A Focus on Lysophosphatidylcholine. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 732319	4.6	6
212	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> , <b>2021</b> , 1185, 123001	3.2	8
211	Chemically modified glycosaminoglycan derivatives as building blocks for biomaterial coatings and hydrogels. <i>Biological Chemistry</i> , <b>2021</b> , 402, 1385-1395	4.5	2
210	Reduced lipolysis in lipoma phenocopies lipid accumulation in obesity. <i>International Journal of Obesity</i> , <b>2021</b> , 45, 565-576	5.5	6
209	Insights into structure, affinity, specificity, and function of GAG-protein interactions through the chemoenzymatic preparation of defined sulfated oligohyaluronans. <i>Biological Chemistry</i> , <b>2021</b> , 402, 1375-1384 <sup>1</sup>	4.5	1
208	: A reference lipidome for human white adipose tissue. <i>Cell Reports Medicine</i> , <b>2021</b> , 2, 100407	18	6
207	Characterization of defined sulfated heparin-like oligosaccharides by electrospray ionization ion trap mass spectrometry. <i>Journal of Mass Spectrometry</i> , <b>2021</b> , 56, e4692	2.2	7
206	Deletion of Perilipin 5 Protects Against Hepatic Injury in Nonalcoholic Fatty Liver Disease via Missing Inflammasome Activation. <i>Cells</i> , <b>2020</b> , 9,	7.9	8
205	The repertoire of Adhesion G protein-coupled receptors in adipocytes and their functional relevance. <i>International Journal of Obesity</i> , <b>2020</b> , 44, 2124-2136	5.5	13
204	Different glycolipids in sperm from different freshwater fishes - A high-performance thin-layer chromatography/electrospray ionization mass spectrometry study. <i>Rapid Communications in Mass Spectrometry</i> , <b>2020</b> , 34, e8875	2.2	5
203	Sperm Lipid Composition in Early Diverged Fish Species: Internal vs. External Mode of Fertilization. <i>Biomolecules</i> , <b>2020</b> , 10,	5.9	6
202	Vesiculation of Red Blood Cells in the Blood Bank: A Multi-Omics Approach towards Identification of Causes and Consequences. <i>Proteomes</i> , <b>2020</b> , 8,	4.6	6
201	MALDI MS Analysis to Investigate the Lipid Composition of Sperm. <i>Current Analytical Chemistry</i> , <b>2020</b> , 16, 79-91	1.7	1
200	Increased plasma phosphatidylcholine/lysophosphatidylcholine ratios in patients with Parkinson's disease. <i>Rapid Communications in Mass Spectrometry</i> , <b>2020</b> , 34, e8595	2.2	6
199	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> , <b>2020</b> , 412, 2237-2249	4.4	3

198	Assisted reproduction for felid species conservation-Sperm competences at risk. <i>Reproduction in Domestic Animals</i> , <b>2020</b> , 55 Suppl 2, 55-60	1.6	1
197	De novo synthesis of phospholipids and sphingomyelin in multipotent stromal cells - Monitoring studies by mass spectrometry. <i>Chemistry and Physics of Lipids</i> , <b>2020</b> , 232, 104965	3.7	3
196	Performances of ionic liquid matrices with butyl ammonium counterion for matrix-assisted laser desorption/ionization mass spectrometric detection and analysis of sucralfate. <i>Journal of Carbohydrate Chemistry</i> , <b>2020</b> , 39, 1-23	1.7	6
195	What Can MS, NMR, and TLC Tell Us About the Composition of Lipid Membranes?. <i>Springer Protocols</i> , <b>2020</b> , 59-82	0.3	1
194	Syntheses of defined sulfated oligohyaluronans reveal structural effects, diversity and thermodynamics of GAG-protein binding. <i>Chemical Science</i> , <b>2019</b> , 10, 866-878	9.4	22
193	Short-chain lipid-conjugated pH sensors for imaging of transporter activities in reconstituted systems and living cells. <i>Analyst, The</i> , <b>2019</b> , 144, 3030-3037	5	3
192	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> , <b>2019</b> , 221, 65-72	3.7	13
191	Normal-phase versus reversed-phase thin-layer chromatography (TLC) to monitor oxidized phosphatidylcholines by TLC/mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>2019</b> , 33 Suppl 1, 60-65	2.2	8
190	Synthesis and in silico characterization of artificially phosphorylated glycosaminoglycans. <i>Journal of Molecular Structure</i> , <b>2019</b> , 1197, 401-416	3.4	4
189	Metabolomic profiling reveals correlations between spermogram parameters and the metabolites present in human spermatozoa and seminal plasma. <i>PLoS ONE</i> , <b>2019</b> , 14, e0211679	3.7	25
188	The lipid head group is the key element for substrate recognition by the P4 ATPase ALA2: a phosphatidylserine flippase. <i>Biochemical Journal</i> , <b>2019</b> , 476, 783-794	3.8	8
187	Genetic diversity of Legionella pcs and pmtA genes and the effect of utilization of choline by Legionella spp. on induction of proinflammatory cytokines. <i>Pathogens and Disease</i> , <b>2019</b> , 77,	4.2	5
186	Phospholipase A2 products predict the hematopoietic support capacity of horse serum. <i>Differentiation</i> , <b>2019</b> , 105, 27-32	3.5	5
185	Automated semen analysis by SQA Vision versus the manual approach-A prospective double-blind study. <i>Andrologia</i> , <b>2019</b> , 51, e13149	2.4	13
184	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> , <b>2018</b> , 410, 2437-2447	4.4	18
183	High-Fat Diet Exacerbates Early Psoriatic Skin Inflammation Independent of Obesity: Saturated Fatty Acids as Key Players. <i>Journal of Investigative Dermatology</i> , <b>2018</b> , 138, 1999-2009	4.3	51
182	De novo synthesis of glycosaminoglycans by equine multipotent mesenchymal stromal cells in vitro studied by stable isotopic labeling and matrix-assisted laser desorption ionization mass spectrometry. <i>Journal of Carbohydrate Chemistry</i> , <b>2018</b> , 37, 69-80	1.7	1
181	Covalent Binding of Maleic Anhydride Copolymer Monolayers to Polyacrylamide Hydrogels. <i>Macromolecular Chemistry and Physics</i> , <b>2018</b> , 219, 1800206	2.6	2

180	The presence of the fluorescence indicator (F254) changes the TLC migration properties of selected phospholipids. <i>Journal of Planar Chromatography - Modern TLC</i> , <b>2018</b> , 31, 409-411	0.9	3
179	The fluid membrane determines mechanics of erythrocyte extracellular vesicles and is softened in hereditary spherocytosis. <i>Nature Communications</i> , <b>2018</b> , 9, 4960	17.4	54
178	Recent Developments of Useful MALDI Matrices for the Mass Spectrometric Characterization of Lipids. <i>Biomolecules</i> , <b>2018</b> , 8,	5.9	83
177	Visualizing phosphatidylcholine via mass spectrometry imaging: relevance to human health. <i>Expert Review of Proteomics</i> , <b>2018</b> , 15, 791-800	4.2	3
176	Nanomechanics of Extracellular Vesicles Reveals Vesiculation Pathways. <i>Small</i> , <b>2018</b> , 14, e1801650	11	29
175	A comparison of PC oxidation products as detected by MALDI-TOF and ESI-IT mass spectrometry. <i>Chemistry and Physics of Lipids</i> , <b>2017</b> , 203, 33-45	3.7	5
174	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> , <b>2017</b> , 10, 2497-2506	3.4	3
173	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> , <b>2017</b> , 256, 68-78	11.7	41
172	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> , <b>2017</b> , 31, 411-418	2.2	9
171	Tat transport in Escherichia coli requires zwitterionic phosphatidylethanolamine but no specific negatively charged phospholipid. <i>FEBS Letters</i> , <b>2017</b> , 591, 2848-2858	3.8	5
170	Inflammatory pain control by blocking oxidized phospholipid-mediated TRP channel activation. <i>Scientific Reports</i> , <b>2017</b> , 7, 5447	4.9	41
169	The Phospholipid Composition of Kangaroo Spermatozoa Verified by Mass Spectrometric Lipid Analysis. <i>Lipids</i> , <b>2017</b> , 52, 857-869	1.6	8
168	Combined Use of MALDI-TOF Mass Spectrometry and P NMR Spectroscopy for Analysis of Phospholipids. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1609, 107-122	1.4	5
167	Metabolic profiling of zebrafish ( <i>Danio rerio</i> ) embryos by NMR spectroscopy reveals multifaceted toxicity of N-methylamino-L-alanine (BMAA). <i>Scientific Reports</i> , <b>2017</b> , 7, 17305	4.9	21
166	Altered hepatic lipid metabolism in mice lacking both the melanocortin type 4 receptor and low density lipoprotein receptor. <i>PLoS ONE</i> , <b>2017</b> , 12, e0172000	3.7	10
165	The selected matrix influences the matrix-assisted laser desorption/ionization time-of-flight mass spectral patterns of partially deuterated glycosaminoglycan disaccharides. <i>Rapid Communications in Mass Spectrometry</i> , <b>2016</b> , 30, 2164-70	2.2	4
164	One-Pot Synthesis of Unprotected Anomeric Glycosyl Thiols in Water for Glycan Ligation Reactions with Highly Functionalized Sugars. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 15510-15514	16.4	37
163	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> , <b>2016</b> , 8, 8483-8491	3.2	13

162	Free fatty acids sensitize dendritic cells to amplify TH1/TH17-immune responses. <i>European Journal of Immunology</i> , <b>2016</b> , 46, 2043-53	6.1	48
161	Direct observation of proton pumping by a eukaryotic P-type ATPase. <i>Science</i> , <b>2016</b> , 351, 1469-73	33.3	57
160	Structural, biological and biophysical properties of glycated and glycoxidized phosphatidylethanolamines. <i>Free Radical Biology and Medicine</i> , <b>2016</b> , 95, 293-307	7.8	16
159	Towards Understanding Male Infertility After Spinal Cord Injury Using Quantitative Proteomics. <i>Molecular and Cellular Proteomics</i> , <b>2016</b> , 15, 1424-34	7.6	22
158	MALDI-TOF MS to monitor the kinetics of phospholipase A2-digestion of oxidized phospholipids. <i>Methods</i> , <b>2016</b> , 104, 41-7	4.6	7
157	Chlorinated Phospholipids and Fatty Acids: (Patho)physiological Relevance, Potential Toxicity, and Analysis of Lipid Chlorohydrins. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2016</b> , 2016, 8386362	6.7	17
156	Severe Atherosclerosis and Hypercholesterolemia in Mice Lacking Both the Melanocortin Type 4 Receptor and Low Density Lipoprotein Receptor. <i>PLoS ONE</i> , <b>2016</b> , 11, e0167888	3.7	2
155	Chemoenzymatic Synthesis of Nonasulfated Tetrahyaluronan with a Paramagnetic Tag for Studying Its Complex with Interleukin-10. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 5563-74	4.8	29
154	Mass Spectrometry of Biological Molecules <b>2016</b> , 1-42		0
153	Unexpected products of the hypochlorous acid-induced oxidation of oleic acid: A study using high performance thin-layer chromatography-electrospray ionization mass spectrometry. <i>Journal of Chromatography A</i> , <b>2016</b> , 1439, 89-96	4.5	11
152	Inflammation-associated changes in lipid composition and the organization of the erythrocyte membrane. <i>BBA Clinical</i> , <b>2016</b> , 5, 186-92		33
151	Biosynthetic preparation of selectively deuterated phosphatidylcholine in genetically modified <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2015</b> , 99, 241-54	5.7	28
150	Nutrition-dependent changes of mouse adipose tissue compositions monitored by NMR, MS, and chromatographic methods. <i>Analytical and Bioanalytical Chemistry</i> , <b>2015</b> , 407, 5113-23	4.4	13
149	Cell membrane softening in human breast and cervical cancer cells. <i>New Journal of Physics</i> , <b>2015</b> , 17, 083008	2.9	25
148	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> , <b>2015</b> , 78, 1409-1413	2.1	6
147	Lipid-conjugated fluorescent pH sensors for monitoring pH changes in reconstituted membrane systems. <i>Analyst</i> , <b>2015</b> , 140, 6313-20	5	22
146	Separation of (Phospho)Lipids by Thin-Layer Chromatography <b>2015</b> , 375-405		4
145	Structural analysis of the interleukin-8/glycosaminoglycan interactions by amide hydrogen/deuterium exchange mass spectrometry. <i>Methods</i> , <b>2015</b> , 89, 45-53	4.6	16

144	Formation and Characterization of Supported Lipid Bilayers Composed of Hydrogenated and Deuterated Escherichia coli Lipids. <i>PLoS ONE</i> , <b>2015</b> , 10, e0144671	3-7	37
143	Zebrafish brain lipid characterization and quantification by $^1\text{H}$ nuclear magnetic resonance spectroscopy and MALDI-TOF mass spectrometry. <i>Zebrafish</i> , <b>2014</b> , 11, 240-7	2	11
142	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. <i>Rapid Communications in Mass Spectrometry</i> , <b>2014</b> , 28, 1353-63	2.2	19
141	Metabolic incorporation of unsaturated fatty acids into boar spermatozoa lipids and de novo formation of diacylglycerols. <i>Chemistry and Physics of Lipids</i> , <b>2014</b> , 177, 41-50	3-7	7
140	Analysis of free fatty acids by ultraviolet laser desorption ionization mass spectrometry using insect wings as hydrophobic sample substrates. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 10763-71	7.8	19
139	A simple method to generate oxidized phosphatidylcholines in amounts close to one milligram. <i>Chemistry and Physics of Lipids</i> , <b>2014</b> , 184, 30-7	3-7	5
138	Glycosaminoglycan degradation by selected reactive oxygen species. <i>Antioxidants and Redox Signaling</i> , <b>2014</b> , 21, 1044-62	8.4	15
137	A MALDI MS investigation of the lysophosphatidylcholine/phosphatidylcholine ratio in human spermatozoa and erythrocytes as a useful fertility marker. <i>Lipids</i> , <b>2014</b> , 49, 287-93	1.6	14
136	Stationary phase thickness determines the quality of thin-layer chromatography/matrix-assisted laser desorption and ionization mass spectra of lipids. <i>Analytical Biochemistry</i> , <b>2014</b> , 451, 45-7	3.1	26
135	Stealth carriers for low-resolution structure determination of membrane proteins in solution. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2014</b> , 70, 317-28		51
134	Improvement of the digestibility of sulfated hyaluronans by bovine testicular hyaluronidase: a UV spectroscopic and mass spectrometric study. <i>BioMed Research International</i> , <b>2014</b> , 2014, 986594	3	13
133	In vitro glycation and glycoxidation of phosphatidylethanolamines. <i>Free Radical Biology and Medicine</i> , <b>2014</b> , 75 Suppl 1, S21-2	7.8	3
132	Evaluation of a commercial enzymatic test kit regarding the quantitative analysis of different free fatty acids. <i>Analytical and Bioanalytical Chemistry</i> , <b>2014</b> , 406, 7401-5	4.4	2
131	A simple method to identify ether lipids in spermatozoa samples by MALDI-TOF mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , <b>2013</b> , 405, 6675-82	4.4	16
130	The pore size of PLGA bone implants determines the de novo formation of bone tissue in tibial head defects in rats. <i>Magnetic Resonance in Medicine</i> , <b>2013</b> , 70, 925-35	4.4	44
129	Differently saturated fatty acids can be differentiated by $^{31}\text{P}$ NMR subsequent to derivatization with 2-chloro-4,4,5-tetramethyldioxaphospholane: a cautionary note. <i>Journal of Agricultural and Food Chemistry</i> , <b>2013</b> , 61, 2696-700	5.7	6
128	Conservation of honey bee ( <i>Apis mellifera</i> ) sperm phospholipids during storage in the bee queen--a TLC/MALDI-TOF MS study. <i>Experimental Gerontology</i> , <b>2013</b> , 48, 213-22	4.5	18
127	Investigation of lysine side chain interactions of interleukin-8 with heparin and other glycosaminoglycans studied by a methylation-NMR approach. <i>Glycobiology</i> , <b>2013</b> , 23, 1260-9	5.8	33

126	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> , <b>2012</b> , 310, 72-76	1.9	12
125	New methods to study the composition and structure of the extracellular matrix in natural and bioengineered tissues. <i>Biomatter</i> , <b>2012</b> , 2, 115-31		21
124	Enhanced lysophosphatidylcholine and sphingomyelin contents are characteristic of spermatozoa from obese men-A MALDI mass spectrometric study. <i>Chemistry and Physics of Lipids</i> , <b>2012</b> , 165, 861-5	3.7	16
123	Determination of the glycosaminoglycan and collagen contents in tissue samples by high-resolution <sup>1</sup> H NMR spectroscopy after DCl-induced hydrolysis. <i>Biomacromolecules</i> , <b>2012</b> , 13, 2110-7	6.9	6
122	Synthesis and antiherpetic activity of carboxymethylated and sulfated hyaluronan derivatives. <i>Carbohydrate Polymers</i> , <b>2012</b> , 90, 608-15	10.3	25
121	Time-dependent intensity changes of free fatty acids detected by matrix-assisted laser desorption and ionization time-of-flight mass spectrometry in the presence of 1,8-bis-(dimethylamino)naphthalene--a cautionary note. <i>Rapid Communications in Mass Spectrometry</i> , <b>2012</b> , 26, 1150-4	2.2	14
120	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> , <b>2012</b> , 22, 134-45	5.8	100
119	De novo biosynthesis of glycosaminoglycans in the extracellular matrix of skin studied by matrix-assisted laser desorption/ionization mass spectrometry. <i>Analytical Biochemistry</i> , <b>2012</b> , 421, 791-3 <sup>3.1</sup>		8
118	Loss of the ceramide transfer protein augments EGF receptor signaling in breast cancer. <i>Cancer Research</i> , <b>2012</b> , 72, 2855-66	10.1	27
117	2,4-Dinitrophenylhydrazine as a New Reactive Matrix to Analyze Oxidized Phospholipids by MALDI-TOF Mass Spectrometry. <i>Analytical Letters</i> , <b>2012</b> , 45, 968-976	2.2	21
116	Sulfated Glycosaminoglycan Building Blocks for the Design of Artificial Extracellular Matrices. <i>ACS Symposium Series</i> , <b>2012</b> , 315-328	0.4	5
115	Leishmania promastigotes lack phosphatidylserine but bind annexin V upon permeabilization or miltefosine treatment. <i>PLoS ONE</i> , <b>2012</b> , 7, e42070	3.7	56
114	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> , <b>2011</b> , 123, 270-8	2.1	16
113	Reduced food intake and body weight in mice deficient for the G protein-coupled receptor GPR82. <i>PLoS ONE</i> , <b>2011</b> , 6, e29400	3.7	16
112	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> , <b>2011</b> , 164, 636-42	3.7	4
111	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> , <b>2011</b> , 164, 696-702	3.7	16
110	Oxidative changes of lipids monitored by MALDI MS. <i>Chemistry and Physics of Lipids</i> , <b>2011</b> , 164, 782-95	3.7	59
109	Quantitative analysis of denatured collagen by collagenase digestion and subsequent MALDI-TOF mass spectrometry. <i>Cell and Tissue Research</i> , <b>2011</b> , 343, 605-17	4.2	16

108	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> , <b>2011</b> , 25, 1100-6	2.2	16
107	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> , <b>2011</b> , 25, 2619-26	2.2	13
106	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> , <b>2011</b> , 164, 1-8	3.7	14
105	Lipid analysis by thin-layer chromatography--a review of the current state. <i>Journal of Chromatography A</i> , <b>2011</b> , 1218, 2754-74	4.5	250
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> , <b>2011</b> , 88, 503-507	2.4	20
103	TLC/HPTLC with Direct Mass Spectrometric Detection: A Review of the Progress Achieved in the Last 5 Years <b>2011</b> , 335-363		2
102	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> , <b>2011</b> , 39, 312-24		21
101	An update of MALDI-TOF mass spectrometry in lipid research. <i>Progress in Lipid Research</i> , <b>2010</b> , 49, 450-75	4.3	249
100	Synthesis of New Regioselectively Sulfated Hyaluronans for Biomedical Application. <i>Macromolecular Symposia</i> , <b>2010</b> , 296, 446-452	0.8	16
99	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> , <b>2010</b> , 398, 2833-42	4.4	19
98	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> , <b>2010</b> , 163, 552-60	3.7	48
97	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> , <b>2010</b> , 163, 157-64	3.7	20
96	Recent Developments of Useful MALDI Matrices for the Mass Spectrometric Characterization of Apolar Compounds. <i>Current Organic Chemistry</i> , <b>2009</b> , 13, 1664-1681	1.7	46
95	Application of MALDI-TOF mass spectrometry in lipidomics. <i>European Journal of Lipid Science and Technology</i> , <b>2009</b> , 111, 83-98	3	102
94	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> , <b>2009</b> , 635, 175-82	6.6	31
93	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> , <b>2009</b> , 395, 2479-87	4.4	80
92	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> , <b>2009</b> , 23, 1467-75	2.2	17
91	Lysophosphatidylethanolamine is - in contrast to - choline - generated under in vivo conditions exclusively by phospholipase A2 but not by hypochlorous acid. <i>Bioorganic Chemistry</i> , <b>2009</b> , 37, 202-10	5.1	21

90	The new matrix 4-chloro-alpha-cyanocinnamic acid allows the detection of phosphatidylethanolamine chloramines by MALDI-TOF mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2009</b> , 20, 867-74	3.5	41
89	Matrix-assisted laser desorption and ionisation time-of-flight mass spectrometry of Pt(II) and Pd(II) complexes. <i>Polyhedron</i> , <b>2009</b> , 28, 2905-2912	2.7	9
88	Evaluation of carbon tetrachloride-induced stress on rat hepatocytes by <sup>31</sup> P NMR and MALDI-TOF mass spectrometry: lysophosphatidylcholine generation from unsaturated phosphatidylcholines. <i>Chemistry and Physics of Lipids</i> , <b>2009</b> , 159, 21-9	3.7	13
87	MALDI-TOF-MS Directly Combined with TLC: A Review of the Current State. <i>Chromatographia</i> , <b>2009</b> , 69, 95-105	2.1	89
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1	MALDI-MS of Lipids		4

