

# Jrgen Schiller

## List of Publications by Citations

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215  
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69  
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220  
ext. papers

7,219  
ext. citations

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L-index

#	Paper	IF	Citations
215	Detection of individual phospholipids in lipid mixtures by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry: phosphatidylcholine prevents the detection of further species. <i>Analytical Biochemistry</i> , <b>2001</b> , 289, 202-16	3.1	276
214	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
213	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
212	A direct and simple method of coupling matrix-assisted laser desorption and ionization time-of-flight mass spectrometry (MALDI-TOF MS) to thin-layer chromatography (TLC) for the analysis of phospholipids from egg yolk. <i>Analytical and Bioanalytical Chemistry</i> , <b>2007</b> , 389, 827-34	4.4	173
211	The phosphatidylcholine/lysophosphatidylcholine ratio in human plasma is an indicator of the severity of rheumatoid arthritis: investigations by <sup>31</sup> P NMR and MALDI-TOF MS. <i>Clinical Biochemistry</i> , <b>2005</b> , 38, 925-33	3.5	166
210	MALDI-TOF MS in lipidomics. <i>Frontiers in Bioscience - Landmark</i> , <b>2007</b> , 12, 2568-79	2.8	140
209	The lipid composition of the unicellular green alga <i>Chlamydomonas reinhardtii</i> and the diatom <i>Cyclotella meneghiniana</i> investigated by MALDI-TOF MS and TLC. <i>Chemistry and Physics of Lipids</i> , <b>2007</b> , 150, 143-55	3.7	134
208	Lipid analysis of human spermatozoa and seminal plasma by MALDI-TOF mass spectrometry and NMR spectroscopy - effects of freezing and thawing. <i>Chemistry and Physics of Lipids</i> , <b>2000</b> , 106, 145-56	3.7	133
207	The suitability of different DHB isomers as matrices for the MALDI-TOF MS analysis of phospholipids: which isomer for what purpose?. <i>European Biophysics Journal</i> , <b>2007</b> , 36, 517-27	1.9	117
206	Lipid analysis of human HDL and LDL by MALDI-TOF mass spectrometry and <sup>31</sup> P-NMR. <i>Journal of Lipid Research</i> , <b>2001</b> , 42, 1501-1508	6.3	103
205	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
204	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
203	Analysis of stem cell lipids by offline HPTLC-MALDI-TOF MS. <i>Analytical and Bioanalytical Chemistry</i> , <b>2008</b> , 392, 849-60	4.4	97
202	Limits for the detection of (poly-)phosphoinositides by matrix-assisted laser desorption and ionization time-of-flight mass spectrometry (MALDI-TOF MS). <i>Chemistry and Physics of Lipids</i> , <b>2001</b> , 110, 151-64	3.7	91
201	<sup>31</sup> P NMR Spectroscopy of Phospholipids: From Micelles to Membranes. <i>Current Analytical Chemistry</i> , <b>2007</b> , 3, 283-301	1.7	90
200	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
199	Recent Developments of Useful MALDI Matrices for the Mass Spectrometric Characterization of Lipids. <i>Biomolecules</i> , <b>2018</b> , 8,	5.9	83

198	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
197	Effects of hypochlorous acid on unsaturated phosphatidylcholines. <i>Free Radical Biology and Medicine</i> , <b>2001</b> , 31, 1111-9	7.8	79
196	Interaction of huntingtin fragments with brain membranes--clues to early dysfunction in Huntington's disease. <i>Journal of Neurochemistry</i> , <b>2006</b> , 96, 870-84	6	71
195	StarD10, a START domain protein overexpressed in breast cancer, functions as a phospholipid transfer protein. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 27436-42	5.4	71
194	Analysis of the lipid composition of bull spermatozoa by MALDI-TOF mass spectrometry--a cautionary note. <i>Chemistry and Physics of Lipids</i> , <b>2003</b> , 126, 85-94	3.7	67
193	MALDI-TOF MS of phosphatidylethanolamines: different adducts cause different post source decay (PSD) fragment ion spectra. <i>Journal of Proteomics</i> , <b>2007</b> , 70, 689-92		65
192	Oxidative changes of lipids monitored by MALDI MS. <i>Chemistry and Physics of Lipids</i> , <b>2011</b> , 164, 782-95	3.7	59
191	Direct observation of proton pumping by a eukaryotic P-type ATPase. <i>Science</i> , <b>2016</b> , 351, 1469-73	33.3	57
190	The signal-to-noise ratio as the measure for the quantification of lysophospholipids by matrix-assisted laser desorption/ionisation time-of-flight mass spectrometry. <i>Analyst, The</i> , <b>2001</b> , 126, 1042-50	5	57
189	Cartilage degradation by hyaluronate lyase and chondroitin ABC lyase: a MALDI-TOF mass spectrometric study. <i>Carbohydrate Research</i> , <b>1999</b> , 318, 116-22	2.9	57
188	MALDI-TOF MS analysis of lipids from cells, tissues and body fluids. <i>Sub-Cellular Biochemistry</i> , <b>2008</b> , 49, 541-65	5.5	56
187	Comparison of collagen dynamics in articular cartilage and isolated fibrils by solid-state NMR spectroscopy. <i>Magnetic Resonance in Medicine</i> , <b>2002</b> , 48, 624-32	4.4	56
186	CsCl as an auxiliary reagent for the analysis of phosphatidylcholine mixtures by matrix-assisted laser desorption and ionization time-of-flight mass spectrometry (MALDI-TOF MS). <i>Chemistry and Physics of Lipids</i> , <b>2001</b> , 113, 123-31	3.7	56
185	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
184	NMR studies on human, pathologically changed synovial fluids: role of hypochlorous acid. <i>Magnetic Resonance in Medicine</i> , <b>1996</b> , 35, 848-53	4.4	55
183	Myeloperoxidase-induced formation of chlorohydrins and lysophospholipids from unsaturated phosphatidylcholines. <i>Free Radical Biology and Medicine</i> , <b>2003</b> , 34, 553-62	7.8	54
182	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
181	Analysis of the lipid composition of human and boar spermatozoa by MALDI-TOF mass spectrometry, thin layer chromatography and <sup>31</sup> P NMR spectroscopy. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , <b>2004</b> , 137, 265-77	2.3	52

180	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
179	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
178	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
177	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
176	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
175	Analysis of the phospholipid composition of bronchoalveolar lavage (BAL) fluid from man and minipig by MALDI-TOF mass spectrometry in combination with TLC. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2004</b> , 35, 199-206	3.5	46
174	Application of matrix-assisted laser desorption/ionization time-of-flight mass spectrometry for monitoring the digestion of phosphatidylcholine by pancreatic phospholipase A(2). <i>Analytical Biochemistry</i> , <b>2002</b> , 308, 61-70	3.1	46
173	Negative-ion matrix-assisted laser desorption and ionization time-of-flight mass spectra of complex phospholipid mixtures in the presence of phosphatidylcholine: a cautionary note on peak assignment. <i>Analytical Biochemistry</i> , <b>2002</b> , 309, 311-4	3.1	46
172	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
171	Lysophospholipids: their generation, physiological role and detection. Are they important disease markers?. <i>Mini-Reviews in Medicinal Chemistry</i> , <b>2009</b> , 9, 368-78	3.2	42
170	Application of high resolution <sup>31</sup> P NMR spectroscopy to the characterization of the phospholipid composition of tissues and body fluids - a methodological review. <i>Medical Science Monitor</i> , <b>2002</b> , 8, MT205-22	3.2	42
169	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
168	Inflammatory pain control by blocking oxidized phospholipid-mediated TRP channel activation. <i>Scientific Reports</i> , <b>2017</b> , 7, 5447	4.9	41
167	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
166	<sup>1</sup> H and <sup>13</sup> C HR-MAS NMR investigations on native and enzymatically digested bovine nasal cartilage. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2001</b> , 13, 19-27	2.8	41
165	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
164	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> , <b>2009</b> , 22, 35-42	0.9	37
163	The action of hypochlorous acid on polymeric components of cartilage. <i>Biological Chemistry Hoppe-Seyler</i> , <b>1994</b> , 375, 167-72		37

162	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
161	Characteristic oxidation products of choline plasmalogens are detectable in cattle and roe deer spermatozoa by MALDI-TOF mass spectrometry. <i>Lipids</i> , <b>2007</b> , 42, 991-8	1.6	36
160	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
159	Lipid analysis of bronchoalveolar lavage fluid (BAL) by MALDI-TOF mass spectrometry and 31P NMR spectroscopy. <i>Chemistry and Physics of Lipids</i> , <b>2001</b> , 112, 67-79	3.7	33
158	Inflammation-associated changes in lipid composition and the organization of the erythrocyte membrane. <i>BBA Clinical</i> , <b>2016</b> , 5, 186-92		33
157	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
156	Self-diffusion of polymers in cartilage as studied by pulsed field gradient NMR. <i>Biophysical Chemistry</i> , <b>2002</b> , 97, 251-60	3.5	30
155	<sup>13</sup> C NMR relaxation studies on cartilage and cartilage components. <i>Carbohydrate Research</i> , <b>2000</b> , 327, 439-46	2.9	30
154	Analysis of extracellular matrix production in artificial cartilage constructs by histology, immunocytochemistry, mass spectrometry, and NMR spectroscopy. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2006</b> , 6, 2368-81	1.3	29
153	Evaluation of products upon the reaction of hypohalous acid with unsaturated phosphatidylcholines. <i>Chemistry and Physics of Lipids</i> , <b>2004</b> , 129, 85-96	3.7	29
152	Cartilage degradation by stimulated human neutrophils: reactive oxygen species decrease markedly the activity of proteolytic enzymes. <i>Chemistry and Biology</i> , <b>2000</b> , 7, 557-68		29
151	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
150	Nanomechanics of Extracellular Vesicles Reveals Vesiculation Pathways. <i>Small</i> , <b>2018</b> , 14, e1801650	11	29
149	Biosynthetic preparation of selectively deuterated phosphatidylcholine in genetically modified Escherichia coli. <i>Applied Microbiology and Biotechnology</i> , <b>2015</b> , 99, 241-54	5.7	28
148	TRIACYLGLYCEROL ANALYSIS OF VEGETABLE OILS BY MATRIX-ASSISTED LASER DESORPTION AND IONIZATION TIME-OF-FLIGHT (MALDI-TOF) MASS SPECTROMETRY AND 31P NMR SPECTROSCOPY. <i>Journal of Food Lipids</i> , <b>2002</b> , 9, 185-200		28
147	NMR studies of the action of hypochlorous acid on native pig articular cartilage. <i>FEBS Journal</i> , <b>1995</b> , 233, 672-6		28
146	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
145	Cartilage degradation by stimulated human neutrophils: elastase is mainly responsible for cartilage damage. <i>Bioorganic Chemistry</i> , <b>2002</b> , 30, 119-32	5.1	27

144	Thermal stressing of unsaturated vegetable oils: effects analysed by MALDI-TOF mass spectrometry, <sup>1</sup> H and <sup>31</sup> P NMR spectroscopy. <i>European Food Research and Technology</i> , <b>2002</b> , 215, 282-286	3.4	27
143	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
142	Apoptosis-associated changes in the glycerophospholipid composition of hematopoietic progenitor cells monitored by <sup>31</sup> P NMR spectroscopy and MALDI-TOF mass spectrometry. <i>Chemistry and Physics of Lipids</i> , <b>2007</b> , 150, 229-38	3.7	26
141	Cell membrane softening in human breast and cervical cancer cells. <i>New Journal of Physics</i> , <b>2015</b> , 17, 083008	2.9	25
140	Synthesis and antiherpetic activity of carboxymethylated and sulfated hyaluronan derivatives. <i>Carbohydrate Polymers</i> , <b>2012</b> , 90, 608-15	10.3	25
139	Comparison of the positive and negative ion electrospray ionization and matrix-assisted laser desorption ionization-time-of-flight mass spectra of the reaction products of phosphatidylethanolamines and hypochlorous acid. <i>Analytical Biochemistry</i> , <b>2008</b> , 376, 157-9	3.1	25
138	Influence of tidal volume on pulmonary NO release, tissue lipid peroxidation and surfactant phospholipids. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2003</b> , 1639, 17-26	6.9	25
137	Reactions of pholasin with peroxidases and hypochlorous acid. <i>Free Radical Biology and Medicine</i> , <b>2000</b> , 28, 1555-63	7.8	25
136	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
135	Analysis of Brain Lipids by Directly Coupled Matrix-Assisted Laser Desorption Ionization Time-of-Flight Mass Spectrometry and High-Performance Thin-Layer Chromatography. <i>Journal of AOAC INTERNATIONAL</i> , <b>2008</b> , 91, 1227-1236	1.7	23
134	Analysis of enzymatically generated phosphoinositides by ( <sup>31</sup> )P nuclear magnetic resonance spectroscopy. <i>Analytical Biochemistry</i> , <b>2004</b> , 330, 167-71	3.1	23
133	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
132	Lipid-conjugated fluorescent pH sensors for monitoring pH changes in reconstituted membrane systems. <i>Analyst, The</i> , <b>2015</b> , 140, 6313-20	5	22
131	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
130	Hypochlorous acid-mediated generation of glycerophosphocholine from unsaturated plasmalogen glycerophosphocholine lipids. <i>Journal of Lipid Research</i> , <b>2007</b> , 48, 1316-24	6.3	22
129	Effects of lysophospholipids on the generation of reactive oxygen species by fMLP- and PMA-stimulated human neutrophils. <i>Luminescence</i> , <b>2002</b> , 17, 141-9	2.5	22
128	Metabolic profiling of zebrafish ( <i>Danio rerio</i> ) embryos by NMR spectroscopy reveals multifaceted toxicity of β-methylamino-L-alanine (BMAA). <i>Scientific Reports</i> , <b>2017</b> , 7, 17305	4.9	21
127	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

126	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
125	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	2.4	21
124	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
123	Effects of thermal stressing on saturated vegetable oils and isolated triacylglycerols - product analysis by MALDI-TOF mass spectrometry, NMR and IR spectroscopy. <i>European Journal of Lipid Science and Technology</i> , <b>2002</b> , 104, 496-505	3	21
122	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
121	The intact muscle lipid composition of bulls: an investigation by MALDI-TOF MS and 31P NMR. <i>Chemistry and Physics of Lipids</i> , <b>2010</b> , 163, 157-64	3.7	20
120	The photoprotein pholasin as a luminescence substrate for detection of superoxide anion radicals and myeloperoxidase activity in stimulated neutrophils. <i>Free Radical Research</i> , <b>2001</b> , 35, 723-33	4	20
119	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
118	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
117	Thin-layer chromatography combined with MALDI-TOF-MS and 31P-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
116	The bovine seminal plasma protein PDC-109 extracts phosphorylcholine-containing lipids from the outer membrane leaflet. <i>European Biophysics Journal</i> , <b>2007</b> , 36, 461-75	1.9	19
115	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
114	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
113	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
112	The Molecular Organization of Polymers of Cartilage in Health and Disease. <i>Current Organic Chemistry</i> , <b>2006</b> , 10, 1771-1789	1.7	17
111	Analysis of Human Blood Plasma by MALDI-TOF MS Evaluation of Critical Parameters. <i>Analytical Letters</i> , <b>2006</b> , 39, 1101-1113	2.2	17
110	Comparison of different procedures for the lipid extraction from HL-60 cells: a MALDI-TOF mass spectrometric study. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , <b>2005</b> , 60, 143-51	1.7	17
109	Action of hypochlorous acid on polymeric components of cartilage. Use of 13C NMR spectroscopy. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , <b>1995</b> , 50, 721-8	1.7	17

108	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
107	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
106	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
105	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
104	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
103	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
102	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
101	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
100	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
99	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
98	Synthesis of New Regioselectively Sulfated Hyaluronans for Biomedical Application. <i>Macromolecular Symposia</i> , <b>2010</b> , 296, 446-452	0.8	16
97	The signal-to-noise ratio as a measure of HA oligomer concentration: a MALDI-TOF MS study. <i>Carbohydrate Research</i> , <b>2006</b> , 341, 1065-70	2.9	16
96	<sup>13</sup> C, <sup>15</sup> N, <sup>29</sup> Si and <sup>31</sup> P NMR study of N-trimethylsilylaminophosphorus compounds: Sign determination of coupling constants and application of Hahn-echo extended pulse sequences. <i>Magnetic Resonance in Chemistry</i> , <b>1992</b> , 30, 304-311	2.1	16
95	Glycosaminoglycan degradation by selected reactive oxygen species. <i>Antioxidants and Redox Signaling</i> , <b>2014</b> , 21, 1044-62	8.4	15
94	The solubilisation of boar sperm membranes by different detergents - a microscopic, MALDI-TOF MS, ( <sup>31</sup> P) NMR and PAGE study on membrane lysis, extraction efficiency, lipid and protein composition. <i>Lipids in Health and Disease</i> , <b>2009</b> , 8, 49	4.4	15
93	Cholesterol esterase action on human high density lipoproteins and inhibition studies: detection by MALDI-TOF MS. <i>Journal of Lipid Research</i> , <b>2005</b> , 46, 803-11	6.3	15
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