

Maria Fedorova

List of Publications by Citations

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72
papers

1,688
citations

23
h-index

38
g-index

76
ext. papers

2,200
ext. citations

6
avg, IF

5.17
L-index

#	Paper	IF	Citations
72	Protein carbonylation as a major hallmark of oxidative damage: update of analytical strategies. <i>Mass Spectrometry Reviews</i> , 2014 , 33, 79-97	11	275
71	Update on LIPID MAPS classification, nomenclature, and shorthand notation for MS-derived lipid structures. <i>Journal of Lipid Research</i> , 2020 , 61, 1539-1555	6.3	119
70	Peptide profiling of bovine kefir reveals 236 unique peptides released from caseins during its production by starter culture or kefir grains. <i>Journal of Proteomics</i> , 2015 , 117, 41-57	3.9	91
69	Validation of protein carbonyl measurement: a multi-centre study. <i>Redox Biology</i> , 2015 , 4, 149-57	11.3	86
68	Simultaneous detection of low and high molecular weight carbonylated compounds derived from lipid peroxidation by electrospray ionization-tandem mass spectrometry. <i>Analytical Chemistry</i> , 2013 , 85, 156-62	7.8	51
67	Carbonylated plasma proteins as potential biomarkers of obesity induced type 2 diabetes mellitus. <i>Journal of Proteome Research</i> , 2014 , 13, 5081-93	5.6	50
66	Identification of cysteine, methionine and tryptophan residues of actin oxidized in vivo during oxidative stress. <i>Journal of Proteome Research</i> , 2010 , 9, 1598-609	5.6	48
65	Identification of protein carbonylation sites by two-dimensional liquid chromatography in combination with MALDI- and ESI-MS. <i>Journal of Proteomics</i> , 2011 , 74, 2338-50	3.9	46
64	Proteome-wide profiling of carbonylated proteins and carbonylation sites in HeLa cells under mild oxidative stress conditions. <i>Free Radical Biology and Medicine</i> , 2014 , 68, 186-95	7.8	40
63	LPPtiger software for lipidome-specific prediction and identification of oxidized phospholipids from LC-MS datasets. <i>Scientific Reports</i> , 2017 , 7, 15138	4.9	32
62	Reversible and irreversible modifications of skeletal muscle proteins in a rat model of acute oxidative stress. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2009 , 1792, 1185-93	6.9	32
61	Protein Carbonylation and Glycation in Legume Nodules. <i>Plant Physiology</i> , 2018 , 177, 1510-1528	6.6	32
60	Cross-talk between lipid and protein carbonylation in a dynamic cardiomyocyte model of mild nitrooxidative stress. <i>Redox Biology</i> , 2017 , 11, 438-455	11.3	31
59	Identification, quantification, and functional aspects of skeletal muscle protein-carbonylation in vivo during acute oxidative stress. <i>Journal of Proteome Research</i> , 2010 , 9, 2516-26	5.6	30
58	LipidHunter Identifies Phospholipids by High-Throughput Processing of LC-MS and Shotgun Lipidomics Datasets. <i>Analytical Chemistry</i> , 2017 , 89, 8800-8807	7.8	29
57	Evaluation of lipid quantification accuracy using HILIC and RPLC MS on the example of NIST SRM 1950 metabolites in human plasma. <i>Analytical and Bioanalytical Chemistry</i> , 2020 , 412, 3573-3584	4.4	28
56	The molecular mechanism behind reactive aldehyde action on transmembrane translocations of proton and potassium ions. <i>Free Radical Biology and Medicine</i> , 2015 , 89, 1067-76	7.8	27

55	A novel role for NUPR1 in the keratinocyte stress response to UV oxidized phospholipids. <i>Redox Biology</i> , 2019 , 20, 467-482	11.3	26
54	Fluorescence labeling of carbonylated lipids and proteins in cells using coumarin-hydrazide. <i>Redox Biology</i> , 2015 , 5, 195-204	11.3	25
53	Identification of carbonylated lipids from different phospholipid classes by shotgun and LC-MS lipidomics. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 5161-73	4.4	24
52	Identification of carbonylated peptides by tandem mass spectrometry using a precursor ion-like scan in negative ion mode. <i>Journal of Proteomics</i> , 2011 , 74, 2351-9	3.9	24
51	Quantitative evaluation of tryptophan oxidation in actin and troponin I from skeletal muscles using a rat model of acute oxidative stress. <i>Proteomics</i> , 2010 , 10, 2692-700	4.8	24
50	Qualitative and quantitative evaluation of derivatization reagents for different types of protein-bound carbonyl groups. <i>Analyst, The</i> , 2013 , 138, 5081-8	5	23
49	Identification of dityrosine cross-linked sites in oxidized human serum albumin. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016 , 1019, 147-55	3.2	22
48	Liquid Chromatography Techniques in Lipidomics Research. <i>Chromatographia</i> , 2019 , 82, 77-100	2.1	22
47	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	2.2	21
46	Fragmentation behavior of Amadori-peptides obtained by non-enzymatic glycosylation of lysine residues with ADP-ribose in tandem mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2010 , 45, 664-9	2.2	21
45	Computational solutions in redox lipidomics - Current strategies and future perspectives. <i>Free Radical Biology and Medicine</i> , 2019 , 144, 110-123	7.8	20
44	Recent Advances on Mass Spectrometry Analysis of Nitrated Phospholipids. <i>Analytical Chemistry</i> , 2016 , 88, 2622-9	7.8	20
43	Impact of carbonylation on glutathione peroxidase-1 activity in human hyperglycemic endothelial cells. <i>Redox Biology</i> , 2018 , 16, 113-122	11.3	19
42	Steatosis-induced proteins adducts with lipid peroxidation products and nuclear electrophilic stress in hepatocytes. <i>Redox Biology</i> , 2015 , 4, 158-68	11.3	17
41	Rational selection of reverse phase columns for high throughput LC-MS lipidomics. <i>Chemistry and Physics of Lipids</i> , 2019 , 221, 120-127	3.7	16
40	Structural, biological and biophysical properties of glycated and glycoxidized phosphatidylethanolamines. <i>Free Radical Biology and Medicine</i> , 2016 , 95, 293-307	7.8	16
39	Quality control requirements for the correct annotation of lipidomics data. <i>Nature Communications</i> , 2021 , 12, 4771	17.4	16
38	New covalent modifications of phosphatidylethanolamine by alkanals: mass spectrometry based structural characterization and biological effects. <i>Journal of Mass Spectrometry</i> , 2014 , 49, 557-69	2.2	15

37	Separation and characterization of oxidized isomeric lipid-peptide adducts by ion mobility mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2015 , 50, 1386-92	2.2	15
36	Derivatization and detection of small aliphatic and lipid-bound carbonylated lipid peroxidation products by ESI-MS. <i>Methods in Molecular Biology</i> , 2015 , 1208, 3-20	1.4	15
35	BioPAN: a web-based tool to explore mammalian lipidome metabolic pathways on LIPID MAPS. <i>F1000Research</i> , 2021 , 10, 4	3.6	14
34	LipidLynxX: a data transfer hub to support integration of large scale lipidomics datasets		13
33	Cytochrome autocatalyzed carbonylation in the presence of hydrogen peroxide and cardiolipins. <i>Journal of Biological Chemistry</i> , 2019 , 294, 1816-1830	5.4	13
32	Oxidative modification of skin lipids by cold atmospheric plasma (CAP): A standardizable approach using RP-LC/MS and DI-ESI/MS. <i>Chemistry and Physics of Lipids</i> , 2020 , 226, 104786	3.7	13
31	Evaluation of air oxidized PAPC: A multi laboratory study by LC-MS/MS. <i>Free Radical Biology and Medicine</i> , 2019 , 144, 156-166	7.8	12
30	Profiling and relative quantification of multiply nitrated and oxidized fatty acids. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 5587-602	4.4	12
29	Characterization of oxidation products from 1-palmitoyl-2-linoleoyl-sn-glycerophosphatidylcholine in aqueous solutions and their reactions with cysteine, histidine and lysine residues. <i>Chemistry and Physics of Lipids</i> , 2012 , 165, 186-96	3.7	12
28	Molecular Mechanisms Responsible for Pharmacological Effects of Genipin on Mitochondrial Proteins. <i>Biophysical Journal</i> , 2019 , 117, 1845-1857	2.9	11
27	Impact of inhibition of the autophagy-lysosomal pathway on biomolecules carbonylation and proteome regulation in rat cardiac cells. <i>Redox Biology</i> , 2019 , 23, 101123	11.3	9
26	Heterogeneity of peptide adducts with carbonylated lipid peroxidation products. <i>Journal of Mass Spectrometry</i> , 2015 , 50, 603-12	2.2	9
25	Electrochemical oxidation of cholesterol: An easy way to generate numerous oxysterols in short reaction times. <i>European Journal of Lipid Science and Technology</i> , 2016 , 118, 325-331	3	9
24	Higher proteotoxic stress rather than mitochondrial damage is involved in higher neurotoxicity of bortezomib compared to carfilzomib. <i>Redox Biology</i> , 2020 , 32, 101502	11.3	8
23	Sphingomyelins Prevent Propagation of Lipid Peroxidation-LC-MS/MS Evaluation of Inhibition Mechanisms. <i>Molecules</i> , 2020 , 25,	4.8	8
22	Dry heat forced degradation of buserelin peptide: kinetics and degradant profiling. <i>International Journal of Pharmaceutics</i> , 2014 , 467, 48-9	6.5	8
21	Evaluation of Lipid In-Source Fragmentation on Different Orbitrap-based Mass Spectrometers. <i>Journal of the American Society for Mass Spectrometry</i> , 2020 , 31, 463-466	3.5	8
20	BioPAN: a web-based tool to explore mammalian lipidome metabolic pathways on LIPID MAPS. <i>F1000Research</i> , 2021 , 10, 4	3.6	8

19	Epitope mapping and characterization of 4-hydroxy-2-nonenal modified-human serum albumin using two different polyclonal antibodies. <i>Free Radical Biology and Medicine</i> , 2019 , 144, 234-244	7.8	7
18	Electrochemical oxidation of phosphatidylethanolamines studied by mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2018 , 53, 223-233	2.2	7
17	Analysis of oxidised and glycated aminophospholipids: Complete structural characterisation by C30 liquid chromatography-high resolution tandem mass spectrometry. <i>Free Radical Biology and Medicine</i> , 2019 , 144, 144-155	7.8	6
16	Membranous adenylyl cyclase 1 activation is regulated by oxidation of N- and C-terminal methionine residues in calmodulin. <i>Biochemical Pharmacology</i> , 2015 , 93, 196-209	6	6
15	: A reference lipidome for human white adipose tissue. <i>Cell Reports Medicine</i> , 2021 , 2, 100407	18	6
14	Protein and lipid carbonylation in cellular model of nitrosative stress: mass spectrometry, biochemistry and microscopy study. <i>Free Radical Biology and Medicine</i> , 2014 , 75 Suppl 1, S15	7.8	5
13	Single Cell Analysis by High-Resolution Atmospheric-Pressure MALDI MS Imaging. <i>Methods in Molecular Biology</i> , 2020 , 2064, 103-111	1.4	4
12	Diversity of Protein Carbonylation Pathways 2017 , 48-82		3
11	Protective Role of Sphingomyelin in Eye Lens Cell Membrane Model against Oxidative Stress. <i>Biomolecules</i> , 2021 , 11,	5.9	3
10	Lipid composition dictates the rate of lipid peroxidation in artificial lipid droplets. <i>Free Radical Research</i> , 2021 , 55, 469-480	4	3
9	A Novel Technique for Redox Lipidomics Using Mass Spectrometry: Application on Vegetable Oils Used to Fry Potatoes. <i>Journal of the American Society for Mass Spectrometry</i> , 2021 , 32, 1798-1809	3.5	2
8	Dynamic posttranslational modifications of cytoskeletal proteins unveil hot spots under nitroxidative stress. <i>Redox Biology</i> , 2021 , 44, 102014	11.3	2
7	Research Techniques Made Simple: Lipidomic Analysis in Skin Research.. <i>Journal of Investigative Dermatology</i> , 2022 , 142, 4-11.e1	4.3	1
6	Juggling with lipids, a game of Russian roulette. <i>Trends in Endocrinology and Metabolism</i> , 2021 , 32, 463-473		1
5	The clinical translation of eicosanoids and other oxylipins, although challenging, should be actively pursued. <i>Journal of Mass Spectrometry and Advances in the Clinical Lab</i> , 2021 , 21, 27-30		1
4	Dynamic posttranslational modifications of cytoskeletal proteins unveil hot spots under nitroxidative stress		1
3	Variations in the milk lipidomes of two dairy cow herds fed hay- or silage-based diets over a full year.. <i>Food Chemistry</i> , 2022 , 390, 133091	8.5	1
2	Interpreting the lipidome: bioinformatic approaches to embrace the complexity. <i>Metabolomics</i> , 2021 , 17, 55	4.7	0

1 Carbonylated HeLa cell proteome. *Free Radical Biology and Medicine*, **2013**, 65, S26

7.8