

Maria Fedorova

List of Publications by Year in descending order

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71
papers

2,693
citations

201385

27
h-index

205818

48
g-index

76
all docs

76
docs citations

76
times ranked

3950
citing authors

#	ARTICLE	IF	CITATIONS
1	Protein carbonylation as a major hallmark of oxidative damage: Update of analytical strategies. <i>Mass Spectrometry Reviews</i> , 2014, 33, 79-97.	2.8	402
2	Update on LIPID MAPS classification, nomenclature, and shorthand notation for MS-derived lipid structures. <i>Journal of Lipid Research</i> , 2020, 61, 1539-1555.	2.0	372
3	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.	1.2	130
4	Validation of protein carbonyl measurement: A multi-centre study. <i>Redox Biology</i> , 2015, 4, 149-157.	3.9	102
5	Carbonylated Plasma Proteins As Potential Biomarkers of Obesity Induced Type 2 Diabetes Mellitus. <i>Journal of Proteome Research</i> , 2014, 13, 5081-5093.	1.8	64
6	Identification of Cysteine, Methionine and Tryptophan Residues of Actin Oxidized <i>in vivo</i> during Oxidative Stress. <i>Journal of Proteome Research</i> , 2010, 9, 1598-1609.	1.8	61
7	AdipoAtlas: A reference lipidome for human white adipose tissue. <i>Cell Reports Medicine</i> , 2021, 2, 100407.	3.3	60
8	Quality control requirements for the correct annotation of lipidomics data. <i>Nature Communications</i> , 2021, 12, 4771.	5.8	54
9	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, 156-162.	3.2	53
10	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.	1.9	53
11	Identification of protein carbonylation sites by two-dimensional liquid chromatography in combination with MALDI- and ESI-MS. <i>Journal of Proteomics</i> , 2011, 74, 2338-2350.	1.2	52
12	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, 186-195.	1.3	49
13	LipidHunter Identifies Phospholipids by High-Throughput Processing of LC-MS and Shotgun Lipidomics Datasets. <i>Analytical Chemistry</i> , 2017, 89, 8800-8807.	3.2	49
14	Protein Carbonylation and Glycation in Legume Nodules. <i>Plant Physiology</i> , 2018, 177, 1510-1528.	2.3	47
15	LPtTiger software for lipidome-specific prediction and identification of oxidized phospholipids from LC-MS datasets. <i>Scientific Reports</i> , 2017, 7, 15138.	1.6	46
16	BioPAN: a web-based tool to explore mammalian lipidome metabolic pathways on LIPID MAPS. <i>F1000Research</i> , 2021, 10, 4.	0.8	44
17	The molecular mechanism behind reactive aldehyde action on transmembrane translocations of proton and potassium ions. <i>Free Radical Biology and Medicine</i> , 2015, 89, 1067-1076.	1.3	39
18	Cross-talk between lipid and protein carbonylation in a dynamic cardiomyocyte model of mild nitrooxidative stress. <i>Redox Biology</i> , 2017, 11, 438-455.	3.9	38

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19	Liquid Chromatography Techniques in Lipidomics Research. <i>Chromatographia</i> , 2019, 82, 77-100.	0.7	37
20	Computational solutions in redox lipidomics – Current strategies and future perspectives. <i>Free Radical Biology and Medicine</i> , 2019, 144, 110-123.	1.3	36
21	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, 1185-1193.	1.8	35
22	Identification, Quantification, and Functional Aspects of Skeletal Muscle Protein-Carbonylation <i>in Vivo</i> during Acute Oxidative Stress. <i>Journal of Proteome Research</i> , 2010, 9, 2516-2526.	1.8	35
23	Fluorescence labeling of carbonylated lipids and proteins in cells using coumarin-hydrazide. <i>Redox Biology</i> , 2015, 5, 195-204.	3.9	33
24	A novel role for NUPR1 in the keratinocyte stress response to UV oxidized phospholipids. <i>Redox Biology</i> , 2019, 20, 467-482.	3.9	32
25	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, 2692-2700.	1.3	31
26	Rational selection of reverse phase columns for high throughput LC-MS lipidomics. <i>Chemistry and Physics of Lipids</i> , 2019, 221, 120-127.	1.5	31
27	Identification of carbonylated lipids from different phospholipid classes by shotgun and LC-MS lipidomics. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 5161-5173.	1.9	29
28	Qualitative and quantitative evaluation of derivatization reagents for different types of protein-bound carbonyl groups. <i>Analyst</i> , 2013, 138, 5081.	1.7	27
29	Impact of carbonylation on glutathione peroxidase-1 activity in human hyperglycemic endothelial cells. <i>Redox Biology</i> , 2018, 16, 113-122.	3.9	27
30	BioPAN: a web-based tool to explore mammalian lipidome metabolic pathways on LIPID MAPS. <i>F1000Research</i> , 2021, 10, 4.	0.8	26
31	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, 2351-2359.	1.2	25
32	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, 147-155.	1.2	25
33	Oxidative modification of skin lipids by cold atmospheric plasma (CAP): A standardizable approach using RP-LC/MS2 and DI-ESI/MS2. <i>Chemistry and Physics of Lipids</i> , 2020, 226, 104786.	1.5	24
34	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, 664-669.	0.7	23
35	Recent Advances on Mass Spectrometry Analysis of Nitrated Phospholipids. <i>Analytical Chemistry</i> , 2016, 88, 2622-2629.	3.2	23
36	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

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37	Steatosis-induced proteins adducts with lipid peroxidation products and nuclear electrophilic stress in hepatocytes. <i>Redox Biology</i> , 2015, 4, 158-168.	3.9	22
38	Juggling with lipids, a game of Russian roulette. <i>Trends in Endocrinology and Metabolism</i> , 2021, 32, 463-473.	3.1	21
39	Cytochrome c autocatalyzed carbonylation in the presence of hydrogen peroxide and cardiolipins. <i>Journal of Biological Chemistry</i> , 2019, 294, 1816-1830.	1.6	20
40	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.	1.2	20
41	Structural, biological and biophysical properties of glycated and glycoxidized phosphatidylethanolamines. <i>Free Radical Biology and Medicine</i> , 2016, 95, 293-307.	1.3	19
42	Evaluation of air oxidized PAPC: A multi laboratory study by LC-MS/MS. <i>Free Radical Biology and Medicine</i> , 2019, 144, 156-166.	1.3	18
43	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.	0.4	18
44	New covalent modifications of phosphatidylethanolamine by alkanals: mass spectrometry based structural characterization and biological effects. <i>Journal of Mass Spectrometry</i> , 2014, 49, 557-569.	0.7	17
45	Sphingomyelins Prevent Propagation of Lipid Peroxidation – LC-MS/MS Evaluation of Inhibition Mechanisms. <i>Molecules</i> , 2020, 25, 1925.	1.7	17
46	Separation and characterization of oxidized isomeric lipid-peptide adducts by ion mobility mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2015, 50, 1386-1392.	0.7	16
47	Profiling and relative quantification of multiply nitrated and oxidized fatty acids. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 5587-5602.	1.9	16
48	Molecular Mechanisms Responsible for Pharmacological Effects of Genipin on Mitochondrial Proteins. <i>Biophysical Journal</i> , 2019, 117, 1845-1857.	0.2	16
49	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.	1.3	15
50	Dynamic posttranslational modifications of cytoskeletal proteins unveil hot spots under nitroxidative stress. <i>Redox Biology</i> , 2021, 44, 102014.	3.9	15
51	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, 186-196.	1.5	14
52	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.	3.9	14
53	Higher proteotoxic stress rather than mitochondrial damage is involved in higher neurotoxicity of bortezomib compared to carfilzomib. <i>Redox Biology</i> , 2020, 32, 101502.	3.9	13
54	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.	1.0	12

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55	Protective Role of Sphingomyelin in Eye Lens Cell Membrane Model against Oxidative Stress. <i>Biomolecules</i> , 2021, 11, 276.	1.8	12
56	Heterogeneity of peptide adducts with carbonylated lipid peroxidation products. <i>Journal of Mass Spectrometry</i> , 2015, 50, 603-612.	0.7	11
57	Lipid composition dictates the rate of lipid peroxidation in artificial lipid droplets. <i>Free Radical Research</i> , 2021, 55, 469-480.	1.5	11
58	Dry heat forced degradation of buserelin peptide: Kinetics and degradant profiling. <i>International Journal of Pharmaceutics</i> , 2014, 467, 48-59.	2.6	9
59	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.	2.0	9
60	Electrochemical oxidation of phosphatidylethanolamines studied by mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2018, 53, 223-233.	0.7	9
61	Redox lipidomics and adductomics - Advanced analytical strategies to study oxidized lipids and lipid-protein adducts. <i>Free Radical Biology and Medicine</i> , 2019, 144, 1-5.	1.3	9
62	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.	1.3	8
63	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.	1.3	7
64	Interpreting the lipidome: bioinformatic approaches to embrace the complexity. <i>Metabolomics</i> , 2021, 17, 55.	1.4	7
65	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, S15.	1.3	5
66	Preface to the Special Issue on 4-Hydroxynonenal and Related Lipid Oxidation Products. <i>Free Radical Biology and Medicine</i> , 2017, 111, 1.	1.3	5
67	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.	1.2	5
68	Single Cell Analysis by High-Resolution Atmospheric-Pressure MALDI MS Imaging. <i>Methods in Molecular Biology</i> , 2020, 2064, 103-111.	0.4	5
69	Research Techniques Made Simple: Lipidomic Analysis in Skin Research. <i>Journal of Investigative Dermatology</i> , 2022, 142, 4-11.e1.	0.3	4
70	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.	4.2	4
71	Carbonylated HeLa cell proteome. <i>Free Radical Biology and Medicine</i> , 2013, 65, S26.	1.3	0