

Tomoyuki Oe

List of Publications by Year in descending order

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83
papers

2,412
citations

236833

25
h-index

214721

47
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85
all docs

85
docs citations

85
times ranked

2357
citing authors

#	ARTICLE	IF	CITATIONS
1	Vitamin C-Induced Decomposition of Lipid Hydroperoxides to Endogenous Genotoxins. <i>Science</i> , 2001, 292, 2083-2086.	6.0	406
2	Quantitative analysis of amyloid β peptides in cerebrospinal fluid of Alzheimer's disease patients by immunoaffinity purification and stable isotope dilution liquid chromatography/negative electrospray ionization tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 3723-3735.	0.7	154
3	Effect of Immunoaffinity Depletion of Human Serum during Proteomic Investigations. <i>Journal of Proteome Research</i> , 2005, 4, 1722-1731.	1.8	113
4	A Novel Controlled Local Drug Delivery System for Inner Ear Disease. <i>Laryngoscope</i> , 2008, 118, 706-711.	1.1	112
5	Characterization of 2 β -Deoxycytidine Adducts Derived from 4-Oxo-2-nonenal, a Novel Lipid Peroxidation Product. <i>Chemical Research in Toxicology</i> , 2003, 16, 893-900.	1.7	88
6	Determination of α -Amino Acids Labeled with Fluorescent Chiral Reagents, R(α)- and S(+)-4-(3-Isothiocyanatopyrrolidin-1-yl)-7-(N,N-dimethylaminosulfonyl)-2,1,3-benzoxadiazoles, in Biological and Food Samples by Liquid Chromatography. <i>Analytical Biochemistry</i> , 1999, 269, 124-132.	1.1	77
7	Determination of cellular redox status by stable isotope dilution liquid chromatography/mass spectrometry analysis of glutathione and glutathione disulfide. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 432-440.	0.7	71
8	4,5-Epoxy-2(E)-decenal-Induced Formation of 1,N ⁶ -Etheno-2 β -deoxyadenosine and 1,N ² -Etheno-2 β -deoxyguanosine Adducts. <i>Chemical Research in Toxicology</i> , 2002, 15, 300-304.	1.7	66
9	4-Hydroperoxy-2-nonenal-Induced Formation of 1,N ² -Etheno-2 β -deoxyguanosine Adducts. <i>Chemical Research in Toxicology</i> , 2005, 18, 780-786.	1.7	66
10	A Novel Lipid Hydroperoxide-derived Cyclic Covalent Modification to Histone H4. <i>Journal of Biological Chemistry</i> , 2003, 278, 42098-42105.	1.6	63
11	A Novel Lipid Hydroperoxide-Derived Modification to Arginine. <i>Chemical Research in Toxicology</i> , 2003, 16, 1598-1605.	1.7	59
12	Induction of endothelial cell apoptosis by lipid hydroperoxide-derived bifunctional electrophiles. <i>Free Radical Biology and Medicine</i> , 2005, 39, 1162-1176.	1.3	53
13	Interaction with phospholipids modulates β -synuclein nitration and lipid β -protein adduct formation. <i>Biochemical Journal</i> , 2006, 393, 343-349.	1.7	49
14	A comparison of chromogenic substrates for horseradish peroxidase as a label in steroid enzyme immunoassay. <i>Chemical and Pharmaceutical Bulletin</i> , 1986, 34, 4177-4182.	0.6	44
15	A Novel 4-Oxo-2(E)-nonenal-Derived Endogenous Thiadiazabicyclo Glutathione Adduct Formed during Cellular Oxidative Stress. <i>Chemical Research in Toxicology</i> , 2007, 20, 1008-1018.	1.7	44
16	Persistence of N ⁷ -(2,3,4-Trihydroxybutyl)guanine Adducts in the Livers of Mice and Rats Exposed to 1,3-Butadiene. <i>Chemical Research in Toxicology</i> , 1999, 12, 247-257.	1.7	43
17	Liquid chromatography/tandem mass spectrometry characterization of oxidized amyloid beta peptides as potential biomarkers of Alzheimer's disease. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 911-918.	0.7	42
18	R(?)-4-(3-Isothiocyanatopyrrolidin-1-yl)-7-(N,N-dimethylaminosulfonyl)-2,1,3-benzoxadiazole, a fluorescent chiral tagging reagent: sensitive resolution of chiral amines and amino acids by reversed-phase liquid chromatography. <i>Biomedical Chromatography</i> , 2001, 15, 56-67.	0.8	35

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19	Analysis of FeII-mediated decomposition of a linoleic acid-derived lipid hydroperoxide by liquid chromatography/mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2005, 40, 661-668.	0.7	34
20	Novel lipid hydroperoxide-derived hemoglobin histidine adducts as biomarkers of oxidative stress. <i>Journal of Mass Spectrometry</i> , 2005, 40, 754-764.	0.7	34
21	Determination of γ -glutamylglutathione and other low-molecular-mass biological thiol compounds by isocratic high-performance liquid chromatography with fluorimetric detection. <i>Biomedical Applications</i> , 1998, 708, 285-289.	1.7	31
22	Measurement of plasma pristanic, phytanic and very long chain fatty acids by liquid chromatography-electrospray tandem mass spectrometry for the diagnosis of peroxisomal disorders. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2003, 798, 159-162.	1.2	31
23	A Validated Liquid Chromatography/Tandem Mass Spectrometry Assay for cis-Amminedichloro(2-methylpyridine)platinum(II) in Human Plasma Ultrafiltrate. <i>Analytical Chemistry</i> , 2002, 74, 591-599.	3.2	29
24	A Novel 4-Oxo-2-(<i>E</i>)-nonenal-Derived Modification to Angiotensin II: Oxidative Decarboxylation of N-Terminal Aspartic Acid. <i>Chemical Research in Toxicology</i> , 2008, 21, 2237-2244.	1.7	28
25	Immobilized enzyme reactors for detection systems in high-performance liquid chromatography. <i>Biomedical Applications</i> , 1989, 492, 345-359.	1.7	27
26	Sensitive ferrocene reagents for derivatization of thiol compounds in high-performance liquid chromatography with dual-electrode coulometric detection. <i>Biomedical Applications</i> , 1987, 419, 17-25.	1.7	26
27	Separation of 17 -Amino Acids and Chiral Sequential Analysis of Peptides by Reversed-Phase Liquid Chromatography after Labeling with R(α)-4-(3-Isothiocyanatopyrrolidin-1-yl)-7-(N,N-dimethylaminosulfonyl)-2,1,3-benzoxadiazole. <i>Analytical Biochemistry</i> , 1999, 276, 48-58.	1.1	25
28	Mass Spectrometric Characterization of Modifications to Angiotensin II by Lipid Peroxidation Products, 4-Oxo-2-(<i>E</i>)-nonenal and 4-Hydroxy-2-(<i>E</i>)-nonenal. <i>Chemical Research in Toxicology</i> , 2010, 23, 1771-1785.	1.7	25
29	Lgr4 Controls Specialization of Female Gonads in Mice ¹ . <i>Biology of Reproduction</i> , 2015, 93, 90.	1.2	24
30	Detection of Triazolam and Its Hydroxy Metabolites in Rat Hair by Reversed-Phase Liquid Chromatography with Electrospray Ionization Mass Spectrometry. <i>Journal of Analytical Toxicology</i> , 2000, 24, 194-201.	1.7	20
31	Utility of Cyclodextrin in Mobile Phase for High-Performance Liquid Chromatographic Separation of Bufadienolides. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1990, 13, 493-504.	0.9	19
32	Non-invasive proteomic analysis of human skin keratins: Screening of methionine oxidation in keratins by mass spectrometry. <i>Journal of Proteomics</i> , 2011, 75, 435-449.	1.2	19
33	Angiotensin II-Induced Oxidative Stress in Human Endothelial Cells: Modification of Cellular Molecules through Lipid Peroxidation. <i>Chemical Research in Toxicology</i> , 2019, 32, 1412-1422.	1.7	19
34	Ferrocene Derivatization Reagents for Optical Resolution of Carboxylic Acids by High-performance Liquid Chromatography with Electrochemical Detection. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1987, 10, 3161-3172.	0.9	18
35	Combining [¹³ C ₆]-phenylisothiocyanate and the Edman degradation reaction: a possible breakthrough for absolute quantitative proteomics together with protein identification. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 173-179.	0.7	18
36	Aldehyde Stress-Mediated Novel Modification of Proteins: Epimerization of the N-Terminal Amino Acid. <i>Chemical Research in Toxicology</i> , 2013, 26, 1926-1936.	1.7	18

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37	Chromatographic Behavior of Bile Acids Using Cyclodextrin in Mobile Phase of High Performance Liquid Chromatography. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1989, 12, 491-500.	0.9	17
38	Sensitive ferrocene reagents for derivatization of amines for high-performance liquid chromatography with electrochemical detection. <i>Biomedical Applications</i> , 1989, 487, 247-255.	1.7	17
39	Determination of Amino Acids by High-Performance Liquid Chromatography with Electrochemical Detection Using Ferrocene Derivatization Reagents. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1989, 12, 359-371.	0.9	16
40	Cookson-type reagents: highly sensitive derivatization reagents for conjugated dienes in high-performance liquid chromatography. <i>Analyst</i> , The, 1991, 116, 1393.	1.7	16
41	N-Terminal α -Ketoamide Peptides: Formation and Transamination. <i>Chemical Research in Toxicology</i> , 2014, 27, 637-648.	1.7	16
42	Dienophilic Reagent for Precolumn Derivatization of 7-Dehydrocholesterol in High Performance Liquid Chromatography. <i>Analytical Sciences</i> , 1990, 6, 461-463.	0.8	14
43	Determination of the platinum drug cis-aminedichloro(2-methylpyridine)platinum(II) in human urine by liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2003, 792, 217-227.	1.2	14
44	Characterization of an Etoposide-Glutathione Conjugate Derived from Metabolic Activation by Human Cytochrome P450. <i>Current Drug Metabolism</i> , 2006, 7, 897-911.	0.7	14
45	MALDI-TOF/MS-based label-free binding assay for angiotensin II type 1 receptor: application for novel angiotensin peptides. <i>Analytical Biochemistry</i> , 2013, 437, 10-16.	1.1	14
46	Predicted multiple selected reaction monitoring to screen activated drug-mediated modifications on human serum albumin. <i>Analytical Biochemistry</i> , 2014, 449, 59-67.	1.1	14
47	Effect of derivatization of steroids on their retention behaviour in inclusion chromatography using cyclodextrin as a mobile phase additive. <i>Journal of Chromatography A</i> , 1991, 558, 306-310.	1.8	13
48	Complete amino acid sequencing and immunoaffinity clean-up can facilitate screening of various chemical modifications on human serum albumin. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 7383-7395.	1.9	13
49	UV irradiation-induced methionine oxidation in human skin keratins: Mass spectrometry-based non-invasive proteomic analysis. <i>Journal of Proteomics</i> , 2016, 133, 54-65.	1.2	13
50	Application of planar chromatography to the determination of cotinine in urine of active and passive smoking pregnant women. <i>Biomedical Chromatography</i> , 2001, 15, 50-55.	0.8	12
51	Retention behaviour of cardiac steroids using cyclodextrin in the mobile phase in high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 1989, 478, 339-347.	1.8	10
52	A Novel Bi-Functional Fluorescent Probe for Hydrophobicity and Alkali Metal Ions.. <i>Analytical Sciences</i> , 1999, 15, 1021-1023.	0.8	10
53	Hydroxyl Radical-Mediated Novel Modification of Peptides: N-Terminal Cyclization through the Formation of α -Ketoamide. <i>Chemical Research in Toxicology</i> , 2015, 28, 59-70.	1.7	10
54	LC-MS analyses of N-acetyl-p-benzoquinone imine-adducts of glutathione, cysteine, N-acetylcysteine, and albumin in a plasma sample: A case study from a patient with a rare acetaminophen-induced acute swelling rash. <i>Journal of Toxicological Sciences</i> , 2019, 44, 559-563.	0.7	10

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55	Utility of Cyclodextrin in Mobile Phase for High Performance Liquid Chromatographic Separation of Cardenolides. <i>Analytical Sciences</i> , 1988, 4, 377-380.	0.8	9
56	An LC/ESI-SRM/MS method to screen chemically modified hemoglobin: simultaneous analysis for oxidized, nitrated, lipidated, and glycated sites. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 5379-5392.	1.9	9
57	A simple and efficient approach to improve protein identification by the peptide mass fingerprinting method: concomitant use of negative ionization. <i>Analytical Methods</i> , 2010, 2, 1144.	1.3	8
58	Synthesis of deuterium-labeled analogs of the lipid hydroperoxide-derived bifunctional electrophile 4-oxo-2(E)-nonenal. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2011, 54, 247-251.	0.5	8
59	Oxidative stress-mediated N-terminal protein modifications and MS-based approaches for N-terminal proteomics. <i>Drug Metabolism and Pharmacokinetics</i> , 2016, 31, 27-34.	1.1	8
60	Chemical modificomics: a novel strategy for efficient biomarker discovery through chemical modifications on a target peptide. <i>Analytical Methods</i> , 2012, 4, 1945.	1.3	7
61	Can Edman degradation be used for quantification? Isotope-dilution liquid chromatography-electrospray ionization tandem mass spectrometry and the long-term stability of 20 phenylthiohydantoin-amino acids. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 8001-8010.	1.9	7
62	Efficient Strategy for Screening Chemical Modifications on Human Serum Albumin: Use of LC/MS/MS and Differential Analysis Software. <i>Bunseki Kagaku</i> , 2015, 64, 653-659.	0.1	7
63	Mass spectrometry data from proteomic analysis of human skin keratins after exposure to UV radiation. <i>Data in Brief</i> , 2016, 7, 100-106.	0.5	7
64	Quantitative LC/ESI-SRM/MS of antibody biopharmaceuticals: use of a homologous antibody as an internal standard and three-step method development. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 5523-5532.	1.9	7
65	Inhibition effect of pyridoxamine on lipid hydroperoxide-derived modifications to human serum albumin. <i>PLoS ONE</i> , 2018, 13, e0196050.	1.1	7
66	Novel derivatization reagent with tetrathiafulvalene as an electrophore for pre-column labeling of amines in high-performance liquid chromatography.. <i>Chemical and Pharmaceutical Bulletin</i> , 1991, 39, 1897-1898.	0.6	6
67	Carnosine and anserine in chicken can quench toxic acrylamide under cooking conditions: Mass spectrometric studies on adduct formation and characterization. <i>Food Chemistry</i> , 2020, 333, 127480.	4.2	6
68	Comparative studies for amyloid beta degradation: Neprilysin vs insulinin, monomeric vs aggregate, and whole A β 40 vs its peptide fragments. <i>Biochemistry and Biophysics Reports</i> , 2022, 30, 101268.	0.7	6
69	Effect of metal ions on the stable adduct formation of 16 β -hydroxyestrone with a primary amine via the Heyns rearrangement. <i>Steroids</i> , 1999, 64, 252-258.	0.8	5
70	Angiotensin II modification by decomposition products of linoleic acid-derived lipid hydroperoxide. <i>Chemico-Biological Interactions</i> , 2015, 239, 87-99.	1.7	5
71	Imidazole dipeptides can quench toxic 4-oxo-2(E)-nonenal: Molecular mechanism and mass spectrometric characterization of the reaction products. <i>Journal of Peptide Science</i> , 2018, 24, e3097.	0.8	5
72	Stable isotope labeling by fatty acids in cell culture (SILFAC) coupled with isotope pattern dependent mass spectrometry for global screening of lipid hydroperoxide-mediated protein modifications. <i>Journal of Proteomics</i> , 2017, 166, 101-114.	1.2	4

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73	Robust analysis of angiotensin peptides in human plasma: Column switching-parallel LC/ESI-SRM/MS without adsorption or enzymatic decomposition. <i>Analytical Biochemistry</i> , 2021, 630, 114327.	1.1	4
74	Study for Catecholamine-2'-Deoxyguanosine Adduct Formation under Biomimetic Conditions Using Liquid Chromatography-Electrospray Ionization-Ion Trap Mass Spectrometry.. <i>Journal of Health Science</i> , 2001, 47, 339-345.	0.9	3
75	Biomimetic trapping cocktail to screen reactive metabolites: use of an amino acid and DNA motif mixture as light/heavy isotope pairs differing in mass shift. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 3847-3857.	1.9	2
76	Mass spectrometric characterizations of protein carbonylation: Comparison between three different conditions, oxidation by Cull/ascorbic acid, adduction of methyl glyoxal, and adduction of 4-hydroxy-2(E)-nonenal. <i>International Journal of Mass Spectrometry</i> , 2014, 373, 72-80.	0.7	1
77	Alternative LC/ESI-MS/MS approach to screen hemoglobin N-terminal modifications. <i>International Journal of Mass Spectrometry</i> , 2021, 468, 116651.	0.7	1
78	Minute Chemical Modifications on Biological Macromolecules: A Possible Breakthrough for Efficient Biomarker Discovery. <i>Journal of the Mass Spectrometry Society of Japan</i> , 2009, 57, 167-172.	0.0	1
79	COOKSON-TYPE REAGENTS. <i>Analytical Sciences</i> , 1991, 7, 171-172.	0.8	0
80	Syntheses and Characterizations of 4-(3,17 .BETA.-Dihydroxyestra-1,3,5(10)-trien-6.ALPHA.- and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4 161-165.	0.8	0
81	Synthesis of the stable isotope labeled antiviral nucleoside analog [8-13Câ€“7,9-15N2]-ganciclovir. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2006, 49, 1131-1139.	0.5	0
82	Screening of Chemical Modifications in Human Skin Keratins by Mass Spectrometry-Based Proteomic Analysis via Noninvasive Sampling and On-Tape Digestion. <i>Journal of Proteome Research</i> , 2020, 19, 3837-3845.	1.8	0
83	Vitamin C and Cancer. , 2003, , .		0