

Andrew R Pitt

List of Publications by Year in descending order

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97
papers

4,670
citations

101543
36
h-index

106344
65
g-index

100
all docs

100
docs citations

100
times ranked

7430
citing authors

#	ARTICLE	IF	CITATIONS
1	Approaches to Investigating the Protein Interactome of PTEN. <i>Journal of Proteome Research</i> , 2021, 20, 60-77.	3.7	12
2	Lipid Composition Analysis Reveals Mechanisms of Ethanol Tolerance in the Model Yeast <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , 2021, 87, e0044021.	3.1	16
3	Adaptive response to wine selective pressures shapes the genome of a <i>Saccharomyces</i> interspecies hybrid. <i>Microbial Genomics</i> , 2021, 7, .	2.0	0
4	Modification of proteins by reactive lipid oxidation products and biochemical effects of lipoxidation. <i>Essays in Biochemistry</i> , 2020, 64, 19-31.	4.7	32
5	PARP1 Co-Regulates EP300-Dependent Transcription of Genes Involved in Breast Cancer Cell Proliferation and DNA Repair. <i>Cancers</i> , 2019, 11, 1539.	3.7	26
6	Evaluation of air oxidized PAPC: A multi laboratory study by LC-MS/MS. <i>Free Radical Biology and Medicine</i> , 2019, 144, 156-166.	2.9	18
7	Short-chain lipid peroxidation products form covalent adducts with pyruvate kinase and inhibit its activity in vitro and in breast cancer cells. <i>Free Radical Biology and Medicine</i> , 2019, 144, 223-233.	2.9	18
8	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.	2.9	15
9	Increased production of 27-hydroxycholesterol in human colorectal cancer advanced stage: Possible contribution to cancer cell survival and infiltration. <i>Free Radical Biology and Medicine</i> , 2019, 136, 35-44.	2.9	28
10	Analysis of SMALP co-extracted phospholipids shows distinct membrane environments for three classes of bacterial membrane protein. <i>Scientific Reports</i> , 2019, 9, 1813.	3.3	61
11	The effect of HOCl-induced modifications on phosphatase and tensin homologue (PTEN) structure and function. <i>Free Radical Research</i> , 2018, 52, 232-247.	3.3	10
12	A mass spectrometry approach for the identification and localization of small aldehyde modifications of proteins. <i>Archives of Biochemistry and Biophysics</i> , 2018, 646, 38-45.	3.0	22
13	A high-sensitivity electrochemiluminescence-based ELISA for the measurement of the oxidative stress biomarker, 3-nitrotyrosine, in human blood serum and cells. <i>Free Radical Biology and Medicine</i> , 2018, 120, 246-254.	2.9	20
14	Chemistry and analysis of HNE and other prominent carbonyl-containing lipid oxidation compounds. <i>Free Radical Biology and Medicine</i> , 2017, 111, 294-308.	2.9	126
15	European contribution to the study of ROS: A summary of the findings and prospects for the future from the COST action BM1203 (EU-ROS). <i>Redox Biology</i> , 2017, 13, 94-162.	9.0	242
16	Reversible oxidation of phosphatase and tensin homolog (PTEN) alters its interactions with signaling and regulatory proteins. <i>Free Radical Biology and Medicine</i> , 2016, 90, 24-34.	2.9	29
17	Interfacing low-energy SAW nebulization with Liquid Chromatography-Mass Spectrometry for the analysis of biological samples. <i>Scientific Reports</i> , 2015, 5, 9736.	3.3	21
18	Oxidative Lipidomics Coming of Age: Advances in Analysis of Oxidized Phospholipids in Physiology and Pathology. <i>Antioxidants and Redox Signaling</i> , 2015, 22, 1646-1666.	5.4	96

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19	Mass Spectrometry-Based Methods for Identifying Oxidized Proteins in Disease: Advances and Challenges. <i>Biomolecules</i> , 2015, 5, 378-411.	4.0	85
20	Top-down lipidomics of low density lipoprotein reveal altered lipid profiles in advanced chronic kidney disease. <i>Journal of Lipid Research</i> , 2015, 56, 413-422.	4.2	70
21	Targeted mass spectrometry methods for detecting oxidative post-translational modifications. <i>Free Radical Biology and Medicine</i> , 2014, 75, S52-S53.	2.9	3
22	Detection and quantification of protein oxidation in sarcopenic models: a mass spectrometry study. <i>Free Radical Biology and Medicine</i> , 2014, 75, S44.	2.9	2
23	Quantification of Functionalised Gold Nanoparticle-Targeted Knockdown of Gene Expression in HeLa Cells. <i>PLoS ONE</i> , 2014, 9, e99458.	2.5	8
24	Detection of phosphatidylserine with a modified polar head group in human keratinocytes exposed to the radical generator AAPH. <i>Archives of Biochemistry and Biophysics</i> , 2014, 548, 38-45.	3.0	19
25	Identification and Relative Quantification of Tyrosine Nitration in a Model Peptide Using Two-Dimensional Infrared Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2014, 118, 12855-12864.	2.6	16
26	Magnetite-doped polydimethylsiloxane (PDMS) for phosphopeptide enrichment. <i>Analyst</i> , The, 2014, 139, 4974-4981.	3.5	8
27	HOCl-modified phosphatidylcholines induce apoptosis and redox imbalance in HUVEC-ST cells. <i>Archives of Biochemistry and Biophysics</i> , 2014, 548, 1-10.	3.0	8
28	A comparison of five lipid extraction solvent systems for lipidomic studies of human LDL. <i>Journal of Lipid Research</i> , 2013, 54, 1812-1824.	4.2	195
29	Reporter ion-based mass spectrometry approaches for the detection of non-enzymatic protein modifications in biological samples. <i>Journal of Proteomics</i> , 2013, 92, 71-79.	2.4	10
30	Use of Narrow Mass-Window, High-Resolution Extracted Product Ion Chromatograms for the Sensitive and Selective Identification of Protein Modifications. <i>Analytical Chemistry</i> , 2013, 85, 4621-4627.	6.5	15
31	Eukaryotic Translation Initiation Factor 3, Subunit a, Regulates the Extracellular Signal-Regulated Kinase Pathway. <i>Molecular and Cellular Biology</i> , 2012, 32, 88-95.	2.3	33
32	Shaping acoustic fields as a toolset for microfluidic manipulations in diagnostic technologies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 15162-15167.	7.1	171
33	Generation of primary hepatocyte microarrays by piezoelectric printing. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 89, 126-132.	5.0	15
34	Protein oxidation: role in signalling and detection by mass spectrometry. <i>Amino Acids</i> , 2012, 42, 5-21.	2.7	56
35	Unique Reporter-Based Sensor Platforms to Monitor Signalling in Cells. <i>PLoS ONE</i> , 2012, 7, e50521.	2.5	4
36	Intracellular Protein Determination Using Droplet-Based Immunoassays. <i>Analytical Chemistry</i> , 2011, 83, 5361-5368.	6.5	52

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37	Identification of oxidized phospholipids by electrospray ionization mass spectrometry and LC-MS using a QQLIT instrument. <i>Free Radical Biology and Medicine</i> , 2011, 51, 2133-2149.	2.9	42
38	Microscale mesoarrays created by dip-pen nanolithography for screening of protein-protein interactions. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4667-4673.	10.1	12
39	Matrix-free mass spectrometric imaging using laser desorption ionisation Fourier transform ion cyclotron resonance mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 969-972.	1.5	26
40	The application of fixed hydrophobic patterns for confinement of aqueous solutions in proteomic microarrays. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	10
41	Raf Kinase Inhibitor Protein RKIP Enhances Signaling by Glycogen Synthase Kinase-3 β . <i>Cancer Research</i> , 2011, 71, 1334-1343.	0.9	124
42	A simple, sensitive and selective quantum-dot-based western blot method for the simultaneous detection of multiple targets from cell lysates. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 547-554.	3.7	15
43	Effect of phosphatidylcholine chlorohydrins on human erythrocytes. <i>Chemistry and Physics of Lipids</i> , 2010, 163, 639-647.	3.2	14
44	Stopping the clock on proteomic degradation by heat treatment at the point of tissue excision. <i>Proteomics</i> , 2010, 10, 1751-1761.	2.2	51
45	A solvent-free matrix application method for matrix-assisted laser desorption/ionization imaging of small molecules. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 1682-1686.	1.5	36
46	Functional proteomics to dissect tyrosine kinase signalling pathways in cancer. <i>Nature Reviews Cancer</i> , 2010, 10, 618-629.	28.4	185
47	The Renilla luciferase gene as a reference gene for normalization of gene expression in transiently transfected cells. <i>BMC Molecular Biology</i> , 2010, 11, 103.	3.0	15
48	Mass spectrometry imaging of pharmacological compounds in tissue sections. <i>Bioanalysis</i> , 2010, 2, 279-293.	1.5	25
49	The Mammalian MAPK/ERK Pathway Exhibits Properties of a Negative Feedback Amplifier. <i>Science Signaling</i> , 2010, 3, ra90.	3.6	216
50	Use of a Solvent-Free Dry Matrix Coating for Quantitative Matrix-Assisted Laser Desorption Ionization Imaging of 4-Bromophenyl-1,4-diazabicyclo(3.2.2)nonane-4-carboxylate in Rat Brain and Quantitative Analysis of the Drug from Laser Microdissected Tissue Regions. <i>Analytical Chemistry</i> , 2010, 82, 3868-3873.	6.5	66
51	On-chip immunoprecipitation for protein purification. <i>Lab on A Chip</i> , 2010, 10, 2805.	6.0	23
52	The C-terminus of Raf-1 acts as a 14-3-3-dependent activation switch. <i>Cellular Signalling</i> , 2009, 21, 1645-1651.	3.6	44
53	Performance of five different electrospray ionisation sources in conjunction with rapid monolithic column liquid chromatography and fast MS/MS scanning. <i>Proteomics</i> , 2009, 9, 1720-1726.	2.2	7
54	Development of novel mass spectrometric methods for identifying HOCl-induced modifications to proteins. <i>Proteomics</i> , 2009, 9, 1617-1631.	2.2	35

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55	Characterisation of the plasma membrane subproteome of bloodstream form <i>Trypanosoma brucei</i> . Proteomics, 2008, 8, 83-99.	2.2	63
56	Time-dependent evolution of tissue markers by MALDI-MS imaging. Proteomics, 2008, 8, 3801-3808.	2.2	61
57	Protein and peptides in pictures: Imaging with MALDI mass spectrometry. Proteomics, 2008, 8, 3785-3800.	2.2	137
58	Proteomics in the study of hippocampal plasticity. Expert Review of Proteomics, 2008, 5, 393-404.	3.0	6
59	Urinary Proteomic Biomarkers in Coronary Artery Disease. Molecular and Cellular Proteomics, 2008, 7, 290-298.	3.8	197
60	Mass spectrometric analysis of HOCl- and free-radical-induced damage to lipids and proteins. Biochemical Society Transactions, 2008, 36, 1077-1082.	3.4	37
61	Incorporation of N-heterocyclic cations into proteins with a highly directed chemical modification. Chemical Communications, 2007, , 2581.	4.1	5
62	Proteomic analysis of the mouse mammary gland is a powerful tool to identify novel proteins that are differentially expressed during mammary development. Proteomics, 2006, 6, 5694-5704.	2.2	29
63	Regulation of the Raf-MEK-ERK pathway by protein phosphatase 5. Nature Cell Biology, 2006, 8, 1011-1016.	10.3	137
64	Proteomic analysis of phosphorylation, oxidation and nitrosylation in signal transduction. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2006, 1764, 1823-1841.	2.3	78
65	Degradation of bradykinin, a cardioprotective substance, during a single passage through isolated rat-heart. Archives of Pharmacal Research, 2006, 29, 241-248.	6.3	8
66	Precision mapping of the metabolome. Trends in Biotechnology, 2006, 24, 543-548.	9.3	125
67	Proteomic methods applied to the analysis of immobilized biocatalysts. Biotechnology and Bioengineering, 2006, 95, 984-991.	3.3	25
68	Expression and alternative processing of IL-18 in human neutrophils. European Journal of Immunology, 2006, 36, 722-731.	2.9	57
69	The molecular make-up of a tumour: proteomics in cancer research. Clinical Science, 2005, 108, 369-383.	4.3	97
70	Evidence for an association between heat shock protein 70 and the respiratory syncytial virus polymerase complex within lipid-raft membranes during virus infection. Virology, 2005, 338, 69-80.	2.4	79
71	Evidence that the respiratory syncytial virus polymerase complex associates with lipid rafts in virus-infected cells: a proteomic analysis. Virology, 2004, 330, 147-157.	2.4	51
72	Differential protein composition of bovine whey: A comparison of whey from healthy animals and from those with clinical mastitis. Proteomics, 2004, 4, 2094-2100.	2.2	148

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73	A Comparison of the Effects of Ocular Preservatives on Mammalian and Microbial ATP and Glutathione Levels. <i>Free Radical Research</i> , 2004, 38, 739-750.	3.3	30
74	Phospholipid chlorohydrins cause ATP depletion and toxicity in human myeloid cells. <i>FEBS Letters</i> , 2003, 540, 245-250.	2.8	18
75	The interaction of sodium chlorite with phospholipids and glutathione: a comparison of effects in vitro, in mammalian and in microbial cells. <i>Archives of Biochemistry and Biophysics</i> , 2003, 410, 121-133.	3.0	21
76	The Formation of Phosphatidylcholine Oxidation Products by Stimulated Phagocytes. <i>Free Radical Research</i> , 2003, 37, 645-653.	3.3	23
77	Detection of phospholipid oxidation in oxidatively stressed cells by reversed-phase HPLC coupled with positive-ionization electrospray MS. <i>Biochemical Journal</i> , 2001, 355, 449-457.	3.7	55
78	Detection of phospholipid oxidation in oxidatively stressed cells by reversed-phase HPLC coupled with positive-ionization electrospray MS. <i>Biochemical Journal</i> , 2001, 355, 449.	3.7	39
79	The biosynthesis of erythroascorbate in <i>Saccharomyces cerevisiae</i> and its role as an antioxidant. <i>Free Radical Biology and Medicine</i> , 2000, 28, 183-192.	2.9	55
80	Pathways of phospholipid oxidation by HOCl in human LDL detected by LC-MS. <i>Free Radical Biology and Medicine</i> , 2000, 28, 673-682.	2.9	92
81	Synthesis of novel DNA binding agents: indole-containing analogues of bis-netropsin. <i>Journal of Chemical Research</i> , 2000, 2000, 264-265.	1.3	8
82	DNA Binding, Solubility, and Partitioning Characteristics of Extended Lexitropsins. <i>Journal of Medicinal Chemistry</i> , 2000, 43, 3257-3266.	6.4	22
83	The reactions of hypochlorous acid, the reactive oxygen species produced by myeloperoxidase, with lipids. <i>Acta Biochimica Polonica</i> , 2000, 47, 889-899.	0.5	118
84	Intracellular localization and metabolism of the phenanthridinium trypanocide, ethidium bromide, by isolated rat hepatocytes. <i>Xenobiotica</i> , 1999, 29, 349-360.	1.1	17
85	The effect of inducing agents on the metabolism of ethidium bromide by isolated rat hepatocytes. <i>Chemico-Biological Interactions</i> , 1999, 123, 105-115.	4.0	12
86	Direct observation of lipid hydroperoxides in phospholipid vesicles by electrospray mass spectrometry. <i>Free Radical Biology and Medicine</i> , 1998, 25, 613-620.	2.9	62
87	Analysis of flavonoids in tablets and urine by gas chromatography/mass spectrometry and liquid chromatography/mass spectrometry. , 1998, 12, 153-156.		23
88	Chemical modification monitored by electrospray mass spectrometry: a rapid and simple method for identifying and studying functional residues in enzymes. <i>Chemical Biology and Drug Design</i> , 1998, 51, 201-209.	1.1	10
89	On the mechanism of action of GTP-transforming enzymes. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1997, 7, 779-784.	2.2	4
90	Evidence for an insertion-homolysis mechanism for carbon-sulphur bond formation in penicillin biosynthesis; 2. Incubation and interpretation. <i>Tetrahedron</i> , 1996, 52, 2537-2556.	1.9	18

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91	Evidence for an insertion-homolysis mechanism for carbon-sulphur bond formation in penicillin biosynthesis; 1. Synthesis of tripeptide probes. Tetrahedron, 1996, 52, 2515-2536.	1.9	20
92	The use of mass spectrometry to examine the formation and hydrolysis of the phosphorylated form of phosphoglycerate mutase. FEBS Letters, 1995, 359, 192-194.	2.8	24
93	Purification, characterization, crystallisation and X-ray analysis of selenomethionine-labelled hydroxymethylbilane synthase from Escherichia coli. FEBS Journal, 1993, 211, 615-624.	0.2	31
94	Evidence for an insertion-homolysis mechanism for carbon-sulphur bond formation in penicillin biosynthesis. Journal of the Chemical Society Chemical Communications, 1991, , 856-858.	2.0	14
95	Studies on the mechanism of hydroxymethylbilane synthase concerning the role of arginine residues in substrate binding. Biochemical Journal, 1991, 275, 447-452.	3.7	61
96	Synthesis of β -aminoacyl-cysteine-allylglycine, and eight deuterated analogues, substrates for the investigation of the mechanism of action of isopenicillin N synthase.. Tetrahedron, 1991, 47, 8203-8222.	1.9	19
97	Evidence for epoxide formation from isopenicillin N synthase. Journal of the Chemical Society Chemical Communications, 1989, , 978.	2.0	14