

Andrew R Pitt

List of Publications by Year in descending order

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97
papers

4,670
citations

101496

36
h-index

106281

65
g-index

100
all docs

100
docs citations

100
times ranked

7430
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	3.9	242
2	The Mammalian MAPK/ERK Pathway Exhibits Properties of a Negative Feedback Amplifier. <i>Science Signaling</i> , 2010, 3, ra90.	1.6	216
3	Urinary Proteomic Biomarkers in Coronary Artery Disease. <i>Molecular and Cellular Proteomics</i> , 2008, 7, 290-298.	2.5	197
4	A comparison of five lipid extraction solvent systems for lipidomic studies of human LDL. <i>Journal of Lipid Research</i> , 2013, 54, 1812-1824.	2.0	195
5	Functional proteomics to dissect tyrosine kinase signalling pathways in cancer. <i>Nature Reviews Cancer</i> , 2010, 10, 618-629.	12.8	185
6	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.	3.3	171
7	Differential protein composition of bovine whey: A comparison of whey from healthy animals and from those with clinical mastitis. <i>Proteomics</i> , 2004, 4, 2094-2100.	1.3	148
8	Regulation of the Raf→MEK→ERK pathway by protein phosphatase 5. <i>Nature Cell Biology</i> , 2006, 8, 1011-1016.	4.6	137
9	Protein and peptides in pictures: Imaging with MALDI mass spectrometry. <i>Proteomics</i> , 2008, 8, 3785-3800.	1.3	137
10	Chemistry and analysis of HNE and other prominent carbonyl-containing lipid oxidation compounds. <i>Free Radical Biology and Medicine</i> , 2017, 111, 294-308.	1.3	126
11	Precision mapping of the metabolome. <i>Trends in Biotechnology</i> , 2006, 24, 543-548.	4.9	125
12	Raf Kinase Inhibitor Protein RKIP Enhances Signaling by Glycogen Synthase Kinase-3 ^β . <i>Cancer Research</i> , 2011, 71, 1334-1343.	0.4	124
13	The reactions of hypochlorous acid, the reactive oxygen species produced by myeloperoxidase, with lipids. <i>Acta Biochimica Polonica</i> , 2000, 47, 889-899.	0.3	118
14	The molecular make-up of a tumour: proteomics in cancer research. <i>Clinical Science</i> , 2005, 108, 369-383.	1.8	97
15	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.	2.5	96
16	Pathways of phospholipid oxidation by HOCl in human LDL detected by LC-MS. <i>Free Radical Biology and Medicine</i> , 2000, 28, 673-682.	1.3	92
17	Mass Spectrometry-Based Methods for Identifying Oxidized Proteins in Disease: Advances and Challenges. <i>Biomolecules</i> , 2015, 5, 378-411.	1.8	85
18	Evidence for an association between heat shock protein 70 and the respiratory syncytial virus polymerase complex within lipid-raft membranes during virus infection. <i>Virology</i> , 2005, 338, 69-80.	1.1	79

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19	Proteomic analysis of phosphorylation, oxidation and nitrosylation in signal transduction. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006, 1764, 1823-1841.	1.1	78
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.	2.0	70
21	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.	3.2	66
22	Characterisation of the plasma membrane subproteome of bloodstream form <i>Trypanosoma brucei</i> . <i>Proteomics</i> , 2008, 8, 83-99.	1.3	63
23	Direct observation of lipid hydroperoxides in phospholipid vesicles by electrospray mass spectrometry. <i>Free Radical Biology and Medicine</i> , 1998, 25, 613-620.	1.3	62
24	Studies on the mechanism of hydroxymethylbilane synthase concerning the role of arginine residues in substrate binding. <i>Biochemical Journal</i> , 1991, 275, 447-452.	1.7	61
25	Time-dependent evolution of tissue markers by MALDI-MS imaging. <i>Proteomics</i> , 2008, 8, 3801-3808.	1.3	61
26	Analysis of SMALP co-extracted phospholipids shows distinct membrane environments for three classes of bacterial membrane protein. <i>Scientific Reports</i> , 2019, 9, 1813.	1.6	61
27	Expression and alternative processing of IL-18 in human neutrophils. <i>European Journal of Immunology</i> , 2006, 36, 722-731.	1.6	57
28	Protein oxidation: role in signalling and detection by mass spectrometry. <i>Amino Acids</i> , 2012, 42, 5-21.	1.2	56
29	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.	1.3	55
30	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.	1.7	55
31	Intracellular Protein Determination Using Droplet-Based Immunoassays. <i>Analytical Chemistry</i> , 2011, 83, 5361-5368.	3.2	52
32	Evidence that the respiratory syncytial virus polymerase complex associates with lipid rafts in virus-infected cells: a proteomic analysis. <i>Virology</i> , 2004, 330, 147-157.	1.1	51
33	Stopping the clock on proteomic degradation by heat treatment at the point of tissue excision. <i>Proteomics</i> , 2010, 10, 1751-1761.	1.3	51
34	The C-terminus of Raf-1 acts as a 14-3-3-dependent activation switch. <i>Cellular Signalling</i> , 2009, 21, 1645-1651.	1.7	44
35	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.	1.3	42
36	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.	1.7	39

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37	Mass spectrometric analysis of HOCl- and free-radical-induced damage to lipids and proteins. <i>Biochemical Society Transactions</i> , 2008, 36, 1077-1082.	1.6	37
38	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.	0.7	36
39	Development of novel mass spectrometric methods for identifying HOCl-induced modifications to proteins. <i>Proteomics</i> , 2009, 9, 1617-1631.	1.3	35
40	Eukaryotic Translation Initiation Factor 3, Subunit a, Regulates the Extracellular Signal-Regulated Kinase Pathway. <i>Molecular and Cellular Biology</i> , 2012, 32, 88-95.	1.1	33
41	Modification of proteins by reactive lipid oxidation products and biochemical effects of lipoxidation. <i>Essays in Biochemistry</i> , 2020, 64, 19-31.	2.1	32
42	Purification, characterization, crystallisation and X-ray analysis of selenomethionine-labelled hydroxymethylbilane synthase from <i>Escherichia coli</i> . <i>FEBS Journal</i> , 1993, 211, 615-624.	0.2	31
43	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.	1.5	30
44	Proteomic analysis of the mouse mammary gland is a powerful tool to identify novel proteins that are differentially expressed during mammary development. <i>Proteomics</i> , 2006, 6, 5694-5704.	1.3	29
45	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.	1.3	29
46	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.	1.3	28
47	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.	0.7	26
48	PARP1 Co-Regulates EP300/BRG1-Dependent Transcription of Genes Involved in Breast Cancer Cell Proliferation and DNA Repair. <i>Cancers</i> , 2019, 11, 1539.	1.7	26
49	Proteomic methods applied to the analysis of immobilized biocatalysts. <i>Biotechnology and Bioengineering</i> , 2006, 95, 984-991.	1.7	25
50	Mass spectrometry imaging of pharmacological compounds in tissue sections. <i>Bioanalysis</i> , 2010, 2, 279-293.	0.6	25
51	The use of mass spectrometry to examine the formation and hydrolysis of the phosphorylated form of phosphoglycerate mutase. <i>FEBS Letters</i> , 1995, 359, 192-194.	1.3	24
52	Analysis of flavonoids in tablets and urine by gas chromatography/mass spectrometry and liquid chromatography/mass spectrometry. , 1998, 12, 153-156.		23
53	The Formation of Phosphatidylcholine Oxidation Products by Stimulated Phagocytes. <i>Free Radical Research</i> , 2003, 37, 645-653.	1.5	23
54	On-chip immunoprecipitation for protein purification. <i>Lab on A Chip</i> , 2010, 10, 2805.	3.1	23

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55	DNA Binding, Solubility, and Partitioning Characteristics of Extended Lexitropsins. <i>Journal of Medicinal Chemistry</i> , 2000, 43, 3257-3266.	2.9	22
56	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.	1.4	22
57	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.	1.4	21
58	Interfacing low-energy SAW nebulization with Liquid Chromatography-Mass Spectrometry for the analysis of biological samples. <i>Scientific Reports</i> , 2015, 5, 9736.	1.6	21
59	Evidence for an insertion-homolysis mechanism for carbon-sulphur bond formation in penicillin biosynthesis; 1. Synthesis of tripeptide probes. <i>Tetrahedron</i> , 1996, 52, 2515-2536.	1.0	20
60	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.	1.3	20
61	Synthesis of β -amino acid derivatives, and eight deuterated analogues, substrates for the investigation of the mechanism of action of isopenicillin N synthase. <i>Tetrahedron</i> , 1991, 47, 8203-8222.	1.0	19
62	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.	1.4	19
63	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.	1.0	18
64	Phospholipid chlorohydrins cause ATP depletion and toxicity in human myeloid cells. <i>FEBS Letters</i> , 2003, 540, 245-250.	1.3	18
65	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
66	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.	1.3	18
67	Intracellular localization and metabolism of the phenanthridinium trypanocide, ethidium bromide, by isolated rat hepatocytes. <i>Xenobiotica</i> , 1999, 29, 349-360.	0.5	17
68	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.	1.2	16
69	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.	1.4	16
70	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.	1.9	15
71	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
72	Generation of primary hepatocyte microarrays by piezoelectric printing. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 89, 126-132.	2.5	15

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73	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.	3.2	15
74	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
75	Evidence for epoxide formation from isopenicillin N synthase. <i>Journal of the Chemical Society Chemical Communications</i> , 1989, , 978.	2.0	14
76	Evidence for an insertion-“homolysis mechanism for carbon-“sulphur bond formation in penicillin biosynthesis. <i>Journal of the Chemical Society Chemical Communications</i> , 1991, , 856-858.	2.0	14
77	Effect of phosphatidylcholine chlorohydrins on human erythrocytes. <i>Chemistry and Physics of Lipids</i> , 2010, 163, 639-647.	1.5	14
78	The effect of inducing agents on the metabolism of ethidium bromide by isolated rat hepatocytes. <i>Chemico-Biological Interactions</i> , 1999, 123, 105-115.	1.7	12
79	Microscale mesoarrays created by dip-pen nanolithography for screening of protein-“protein interactions. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4667-4673.	5.3	12
80	Approaches to Investigating the Protein Interactome of PTEN. <i>Journal of Proteome Research</i> , 2021, 20, 60-77.	1.8	12
81	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.	1.2	10
82	The application of fixed hydrophobic patterns for confinement of aqueous solutions in proteomic microarrays. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	10
83	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.	1.2	10
84	The effect of HOCl-induced modifications on phosphatase and tensin homologue (PTEN) structure and function. <i>Free Radical Research</i> , 2018, 52, 232-247.	1.5	10
85	Synthesis of novel DNA binding agents: indole-containing analogues of bis-netropsin. <i>Journal of Chemical Research</i> , 2000, 2000, 264-265.	0.6	8
86	Degradation of bradykinin, a cardioprotective substance, during a single passage through isolated rat-heart. <i>Archives of Pharmacal Research</i> , 2006, 29, 241-248.	2.7	8
87	Quantification of Functionalised Gold Nanoparticle-Targeted Knockdown of Gene Expression in HeLa Cells. <i>PLoS ONE</i> , 2014, 9, e99458.	1.1	8
88	Magnetite-doped polydimethylsiloxane (PDMS) for phosphopeptide enrichment. <i>Analyst</i> , The, 2014, 139, 4974-4981.	1.7	8
89	HOCl-modified phosphatidylcholines induce apoptosis and redox imbalance in HUVEC-ST cells. <i>Archives of Biochemistry and Biophysics</i> , 2014, 548, 1-10.	1.4	8
90	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.	1.3	7

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91	Proteomics in the study of hippocampal plasticity. <i>Expert Review of Proteomics</i> , 2008, 5, 393-404.	1.3	6
92	Incorporation of N-heterocyclic cations into proteins with a highly directed chemical modification. <i>Chemical Communications</i> , 2007, , 2581.	2.2	5
93	On the mechanism of action of GTP-transforming enzymes. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1997, 7, 779-784.	1.0	4
94	Unique Reporter-Based Sensor Platforms to Monitor Signalling in Cells. <i>PLoS ONE</i> , 2012, 7, e50521.	1.1	4
95	Targeted mass spectrometry methods for detecting oxidative post-translational modifications. <i>Free Radical Biology and Medicine</i> , 2014, 75, S52-S53.	1.3	3
96	Detection and quantification of protein oxidation in sarcopenic models: a mass spectrometry study. <i>Free Radical Biology and Medicine</i> , 2014, 75, S44.	1.3	2
97	Adaptive response to wine selective pressures shapes the genome of a <i>Saccharomyces</i> interspecies hybrid. <i>Microbial Genomics</i> , 2021, 7, .	1.0	0