Aaron T Wright

List of Publications by Year
in descending order

71 papers	4,159 citations	172457 29 h-index	114465 63 g-index
79 all docs	79 docs citations	79 times ranked	6047 citing authors

#	Article	IF	Citations
1	Bile salt hydrolase profiling by fluorogenic probes in the human gut microbiome. Methods in Enzymology, 2022, 664, 243-265.	1.0	2
2	Gut Commensal Bacteroidetes Encode a Novel Class of Vitamin B ₁₂ -Binding Proteins. MBio, 2022, 13, e0284521.	4.1	8
3	Profiling How the Gut Microbiome Modulates Host Xenobiotic Metabolism in Response to Benzo[a]pyrene and 1-Nitropyrene Exposure. Chemical Research in Toxicology, 2022, 35, 585-596.	3.3	9
4	Activityâ€Based Protein Profiling of Chitin Catabolism. ChemBioChem, 2021, 22, 717-723.	2.6	8
5	Activityâ€Based Protein Profiling of Bile Salt Hydrolysis in the Human Gut Microbiome with Betaâ€Lactam or Acrylamideâ€Based Probes. ChemBioChem, 2021, 22, 1448-1455.	2.6	10
6	Ligand- and Structure-Based Analysis of Deep Learning-Generated Potential Î±2a Adrenoceptor Agonists. Journal of Chemical Information and Modeling, 2021, 61, 481-492.	5.4	1
7	Anaerobic gut fungi are an untapped reservoir of natural products. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	35
8	Nutritional markers and proteome in patients undergoing treatment for pulmonary tuberculosis differ by geographic region. PLoS ONE, 2021, 16, e0250586.	2.5	5
9	Exposure to an Environmental Mixture of Polycyclic Aromatic Hydrocarbons Induces Hepatic Cytochrome P450 Enzymes in Mice. Chemical Research in Toxicology, 2021, 34, 2145-2156.	3.3	10
10	A transcriptional relationship with a natural product disrupts mitochondrial biogenesis. Cell Chemical Biology, 2021, 28, 1392-1393.	5.2	0
11	Structure Dependent Determination of Organophosphate Targets in Mammalian Tissues Using Activity-Based Protein Profiling. Chemical Research in Toxicology, 2020, 33, 414-425.	3.3	7
12	Simple Analysis of Primary and Secondary Bile Salt Hydrolysis in Mouse and Human Gut Microbiome Samples by Using Fluorogenic Substrates. ChemBioChem, 2020, 21, 3539-3543.	2.6	6
13	Detecting differential protein abundance by combining peptide level P-values. Molecular Omics, 2020, 16, 554-562.	2.8	3
14	Probe-enabled approaches for function-dependent cell sorting and characterization of microbiome subpopulations. Methods in Enzymology, 2020, 638, 89-107.	1.0	2
15	Selection, Succession, and Stabilization of Soil Microbial Consortia. MSystems, 2019, 4, .	3.8	64
16	Benzo[a]pyrene Induction of Glutathione S-Transferases: An Activity-Based Protein Profiling Investigation. Chemical Research in Toxicology, 2019, 32, 1259-1267.	3.3	13
17	Proximity-dependent proteomics of the Chlamydia trachomatis inclusion membrane reveals functional interactions with endoplasmic reticulum exit sites. PLoS Pathogens, 2019, 15, e1007698.	4.7	27
18	A continuous fluorescence assay for simple quantification of bile salt hydrolase activity in the gut microbiome. Scientific Reports, 2019, 9, 1359.	3.3	16

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19	A Probe-Enabled Approach for the Selective Isolation and Characterization of Functionally Active Subpopulations in the Gut Microbiome. Journal of the American Chemical Society, 2019, 141, 42-47.	13.7	48
20	Gut commensals make choline too. Nature Microbiology, 2019, 4, 4-5.	13.3	8
21	High-Fat Diets Alter the Modulatory Effects of Xenobiotics on Cytochrome P450 Activities. Chemical Research in Toxicology, 2018, 31, 308-318.	3.3	28
22	A Global Survey of ATPase Activity in Plasmodium falciparum Asexual Blood Stages and Gametocytes. Molecular and Cellular Proteomics, 2018, 17, 111-120.	3.8	3
23	Activity-Based Protein Profilingâ€"Enabling Multimodal Functional Studies of Microbial Communities. Current Topics in Microbiology and Immunology, 2018, 420, 1-21.	1.1	17
24	Multifunctional Activity-Based Protein Profiling of the Developing Lung. Journal of Proteome Research, 2018, 17, 2623-2634.	3.7	9
25	A Cobalamin Activity-Based Probe Enables Microbial Cell Growth and Finds New Cobalamin-Protein Interactions across Domains. Applied and Environmental Microbiology, 2018, 84, .	3.1	15
26	Application of multiplexed ion mobility spectrometry towards the identification of host protein signatures of treatment effect in pulmonary tuberculosis. Tuberculosis, 2018, 112, 52-61.	1.9	20
27	Elucidation of roles for vitamin B ₁₂ in regulation of folate, ubiquinone, and methionine metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E1205-E1214.	7.1	75
28	A parts list for fungal cellulosomes revealed by comparative genomics. Nature Microbiology, 2017, 2, 17087.	13.3	183
29	De novo synthesis of alkyne substituted tryptophans as chemical probes for protein profiling studies. Organic Chemistry Frontiers, 2017, 4, 495-499.	4.5	2
30	Activity-Based Probes for Isoenzyme- and Site-Specific Functional Characterization of Glutathione S-Transferases. Journal of the American Chemical Society, 2017, 139, 16032-16035.	13.7	34
31	Plasma Protein Turnover Rates in Rats Using Stable Isotope Labeling, Global Proteomics, and Activity-Based Protein Profiling. Analytical Chemistry, 2017, 89, 13559-13566.	6.5	2
32	Profiling microbial lignocellulose degradation and utilization by emergent omics technologies. Critical Reviews in Biotechnology, 2017, 37, 626-640.	9.0	52
33	Hepatic Cytochrome P450 Activity, Abundance, and Expression Throughout Human Development. Drug Metabolism and Disposition, 2016, 44, 984-991.	3.3	84
34	Activity-Based Protein Profiling of Ammonia Monooxygenase in Nitrosomonas europaea. Applied and Environmental Microbiology, 2016, 82, 2270-2279.	3.1	36
35	Dinitrogenase-Driven Photobiological Hydrogen Production Combats Oxidative Stress in Cyanothece sp. Strain ATCC 51142. Applied and Environmental Microbiology, 2016, 82, 7227-7235.	3.1	16
36	Role of Cytochrome P450 Hydroxylase in the Decreased Accumulation of Vitamin E in Muscle from Turkeys Compared to that from Chickens. Journal of Agricultural and Food Chemistry, 2016, 64, 671-680.	5.2	7

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37	Early-branching gut fungi possess a large, comprehensive array of biomass-degrading enzymes. Science, 2016, 351, 1192-1195.	12.6	266
38	A cholera surveillance system. Nature Chemical Biology, 2016, 12, 203-204.	8.0	0
39	Systematic Survey of Serine Hydrolase Activity in Mycobacterium tuberculosis Defines Changes Associated with Persistence. Cell Chemical Biology, 2016, 23, 290-298.	5.2	64
40	Tools for the Microbiome: Nano and Beyond. ACS Nano, 2016, 10, 6-37.	14.6	137
41	Live Cell Discovery of Microbial Vitamin Transport and Enzyme-Cofactor Interactions. ACS Chemical Biology, 2016, 11, 345-354.	3.4	28
42	Multi-Omic Dynamics Associate Oxygenic Photosynthesis with Nitrogenase-Mediated H2 Production in Cyanothece sp. ATCC 51142. Scientific Reports, 2015, 5, 16004.	3.3	13
43	Deficient expression of aldehyde dehydrogenase 1A1 is consistent with increased sensitivity of Gorlin syndrome patients to radiation carcinogenesis. Molecular Carcinogenesis, 2015, 54, 473-484.	2.7	9
44	Advancing understanding of microbial bioenergy conversion processes by activity-based protein profiling. Biotechnology for Biofuels, 2015, 8, 156.	6.2	21
45	Activity-based protein profiling of microbes. Current Opinion in Chemical Biology, 2015, 24, 139-144.	6.1	50
46	Characterization of protein redox dynamics induced during light-to-dark transitions and nutrient limitation in cyanobacteria. Frontiers in Microbiology, 2014, 5, 325.	3.5	31
47	Mycobacterium tuberculosis Ser/Thr Protein Kinase B Mediates an Oxygen-Dependent Replication Switch. PLoS Biology, 2014, 12, e1001746.	5.6	63
48	Organelleâ€Specific Activityâ€Based Protein Profiling in Living Cells. Angewandte Chemie - International Edition, 2014, 53, 2919-2922.	13.8	37
49	Yeast cell surface display for lipase whole cell catalyst and its applications. Journal of Molecular Catalysis B: Enzymatic, 2014, 106, 17-25.	1.8	44
50	Live Cell Chemical Profiling of Temporal Redox Dynamics in a Photoautotrophic Cyanobacterium. ACS Chemical Biology, 2014, 9, 291-300.	3.4	35
51	Gene co-expression network analysis in Rhodobacter capsulatus and application to comparative expression analysis of Rhodobacter sphaeroides. BMC Genomics, 2014, 15, 730.	2.8	19
52	Activity-based protein profiling of secreted cellulolytic enzyme activity dynamics in Trichoderma reesei QM6a, NG14, and RUT-C30. Molecular BioSystems, 2013, 9, 2992.	2.9	12
53	Identification of Widespread Adenosine Nucleotide Binding in Mycobacterium tuberculosis. Chemistry and Biology, 2013, 20, 123-133.	6.0	45
54	Disparate Proteome Responses of Pathogenic and Nonpathogenic Aspergilli to Human Serum Measured by Activity-Based Protein Profiling (ABPP). Molecular and Cellular Proteomics, 2013, 12, 1791-1805.	3.8	7

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55	Pyrethroid activity-based probes for profiling cytochrome P450 activities associated with insecticide interactions. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19766-19771.	7.1	33
56	Impact of Pregnancy on the Pharmacokinetics of Dibenzo[def,p]chrysene in Mice. Toxicological Sciences, 2013, 135, 48-62.	3.1	22
57	Multiplexed Activity-based Protein Profiling of the Human Pathogen Aspergillus fumigatus Reveals Large Functional Changes upon Exposure to Human Serum. Journal of Biological Chemistry, 2012, 287, 33447-33459.	3.4	20
58	Suite of Activity-Based Probes for Cellulose-Degrading Enzymes. Journal of the American Chemical Society, 2012, 134, 20521-20532.	13.7	67
59	Activity-Based Protein Profiling Reveals Mitochondrial Oxidative Enzyme Impairment and Restoration in Diet-Induced Obese Mice. PLoS ONE, 2012, 7, e47996.	2.5	27
60	Analysis of Citric Acid in Beverages: Use of an Indicator Displacement Assay. Journal of Chemical Education, 2010, 87, 832-835.	2.3	15
61	A Suite of Activity-Based Probes for Human Cytochrome P450 Enzymes. Journal of the American Chemical Society, 2009, 131, 10692-10700.	13.7	101
62	Activity-Based Protein Profiling: From Enzyme Chemistry to Proteomic Chemistry. Annual Review of Biochemistry, 2008, 77, 383-414.	11.1	1,056
63	Combining Molecular Recognition, Optical Detection, and Chemometric Analysis. , 2007, , 181-218.		29
64	The Discriminatory Power of Differential Receptor Arrays Is Improved by Prescreeningâ€"A Demonstration in the Analysis of Tachykinins and Similar Peptides. Angewandte Chemie - International Edition, 2007, 46, 8212-8215.	13.8	17
65	Chemical Proteomic Probes for Profiling Cytochrome P450 Activities and Drug Interactions In Vivo. Chemistry and Biology, 2007, 14, 1043-1051.	6.0	91
66	Differential receptor arrays and assays for solution-based molecular recognition. Chemical Society Reviews, 2006, 35, 14-28.	38.1	445
67	Differential Receptors Create Patterns That Distinguish Various Proteins. Angewandte Chemie - International Edition, 2005, 44, 6375-6378.	13.8	130
68	A Functional Assay for Heparin in Serum Using a Designed Synthetic Receptor. Angewandte Chemie - International Edition, 2005, 44, 5679-5682.	13.8	161
69	A Differential Array of Metalated Synthetic Receptors for the Analysis of Tripeptide Mixtures. Journal of the American Chemical Society, 2005, 127, 17405-17411.	13.7	63
70	Cooperative Metal-Coordination and Ion Pairing in Tripeptide Recognition. Organic Letters, 2004, 6, 1341-1344.	4.6	62
71	An activity-based probe targeting the streptococcal virulence factor C5a peptidase. Chemical Communications, 0, , .	4.1	4