

Aaron T Wright

List of Publications by Year in descending order

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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	Activity-Based Protein Profiling: From Enzyme Chemistry to Proteomic Chemistry. Annual Review of Biochemistry, 2008, 77, 383-414.	11.1	1,056
2	Differential receptor arrays and assays for solution-based molecular recognition. Chemical Society Reviews, 2006, 35, 14-28.	38.1	445
3	Early-branching gut fungi possess a large, comprehensive array of biomass-degrading enzymes. Science, 2016, 351, 1192-1195.	12.6	266
4	A parts list for fungal cellulosomes revealed by comparative genomics. Nature Microbiology, 2017, 2, 17087.	13.3	183
5	A Functional Assay for Heparin in Serum Using a Designed Synthetic Receptor. Angewandte Chemie - International Edition, 2005, 44, 5679-5682.	13.8	161
6	Tools for the Microbiome: Nano and Beyond. ACS Nano, 2016, 10, 6-37.	14.6	137
7	Differential Receptors Create Patterns That Distinguish Various Proteins. Angewandte Chemie - International Edition, 2005, 44, 6375-6378.	13.8	130
8	A Suite of Activity-Based Probes for Human Cytochrome P450 Enzymes. Journal of the American Chemical Society, 2009, 131, 10692-10700.	13.7	101
9	Chemical Proteomic Probes for Profiling Cytochrome P450 Activities and Drug Interactions In Vivo. Chemistry and Biology, 2007, 14, 1043-1051.	6.0	91
10	Hepatic Cytochrome P450 Activity, Abundance, and Expression Throughout Human Development. Drug Metabolism and Disposition, 2016, 44, 984-991.	3.3	84
11	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
12	Suite of Activity-Based Probes for Cellulose-Degrading Enzymes. Journal of the American Chemical Society, 2012, 134, 20521-20532.	13.7	67
13	Systematic Survey of Serine Hydrolase Activity in Mycobacterium tuberculosis Defines Changes Associated with Persistence. Cell Chemical Biology, 2016, 23, 290-298.	5.2	64
14	Selection, Succession, and Stabilization of Soil Microbial Consortia. MSystems, 2019, 4, .	3.8	64
15	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
16	Mycobacterium tuberculosis Ser/Thr Protein Kinase B Mediates an Oxygen-Dependent Replication Switch. PLoS Biology, 2014, 12, e1001746.	5.6	63
17	Cooperative Metal-Coordination and Ion Pairing in Tripeptide Recognition. Organic Letters, 2004, 6, 1341-1344.	4.6	62
18	Profiling microbial lignocellulose degradation and utilization by emergent omics technologies. Critical Reviews in Biotechnology, 2017, 37, 626-640.	9.0	52

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19	Activity-based protein profiling of microbes. <i>Current Opinion in Chemical Biology</i> , 2015, 24, 139-144.	6.1	50
20	A Probe-Enabled Approach for the Selective Isolation and Characterization of Functionally Active Subpopulations in the Gut Microbiome. <i>Journal of the American Chemical Society</i> , 2019, 141, 42-47.	13.7	48
21	Identification of Widespread Adenosine Nucleotide Binding in <i>Mycobacterium tuberculosis</i> . <i>Chemistry and Biology</i> , 2013, 20, 123-133.	6.0	45
22	Yeast cell surface display for lipase whole cell catalyst and its applications. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014, 106, 17-25.	1.8	44
23	Organelle-Specific Activity-Based Protein Profiling in Living Cells. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2919-2922.	13.8	37
24	Activity-Based Protein Profiling of Ammonia Monooxygenase in <i>Nitrosomonas europaea</i> . <i>Applied and Environmental Microbiology</i> , 2016, 82, 2270-2279.	3.1	36
25	Live Cell Chemical Profiling of Temporal Redox Dynamics in a Photoautotrophic Cyanobacterium. <i>ACS Chemical Biology</i> , 2014, 9, 291-300.	3.4	35
26	Anaerobic gut fungi are an untapped reservoir of natural products. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	35
27	Activity-Based Probes for Isoenzyme- and Site-Specific Functional Characterization of Glutathione S-Transferases. <i>Journal of the American Chemical Society</i> , 2017, 139, 16032-16035.	13.7	34
28	Pyrethroid activity-based probes for profiling cytochrome P450 activities associated with insecticide interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 19766-19771.	7.1	33
29	Characterization of protein redox dynamics induced during light-to-dark transitions and nutrient limitation in cyanobacteria. <i>Frontiers in Microbiology</i> , 2014, 5, 325.	3.5	31
30	Combining Molecular Recognition, Optical Detection, and Chemometric Analysis. , 2007, , 181-218.		29
31	Live Cell Discovery of Microbial Vitamin Transport and Enzyme-Cofactor Interactions. <i>ACS Chemical Biology</i> , 2016, 11, 345-354.	3.4	28
32	High-Fat Diets Alter the Modulatory Effects of Xenobiotics on Cytochrome P450 Activities. <i>Chemical Research in Toxicology</i> , 2018, 31, 308-318.	3.3	28
33	Proximity-dependent proteomics of the <i>Chlamydia trachomatis</i> inclusion membrane reveals functional interactions with endoplasmic reticulum exit sites. <i>PLoS Pathogens</i> , 2019, 15, e1007698.	4.7	27
34	Activity-Based Protein Profiling Reveals Mitochondrial Oxidative Enzyme Impairment and Restoration in Diet-Induced Obese Mice. <i>PLoS ONE</i> , 2012, 7, e47996.	2.5	27
35	Impact of Pregnancy on the Pharmacokinetics of Dibenzo[def,p]chrysene in Mice. <i>Toxicological Sciences</i> , 2013, 135, 48-62.	3.1	22
36	Advancing understanding of microbial bioenergy conversion processes by activity-based protein profiling. <i>Biotechnology for Biofuels</i> , 2015, 8, 156.	6.2	21

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37	Multiplexed Activity-based Protein Profiling of the Human Pathogen <i>Aspergillus fumigatus</i> Reveals Large Functional Changes upon Exposure to Human Serum. <i>Journal of Biological Chemistry</i> , 2012, 287, 33447-33459.	3.4	20
38	Application of multiplexed ion mobility spectrometry towards the identification of host protein signatures of treatment effect in pulmonary tuberculosis. <i>Tuberculosis</i> , 2018, 112, 52-61.	1.9	20
39	Gene co-expression network analysis in <i>Rhodobacter capsulatus</i> and application to comparative expression analysis of <i>Rhodobacter sphaeroides</i> . <i>BMC Genomics</i> , 2014, 15, 730.	2.8	19
40	The Discriminatory Power of Differential Receptor Arrays Is Improved by Prescreening A Demonstration in the Analysis of Tachykinins and Similar Peptides. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 8212-8215.	13.8	17
41	Activity-Based Protein Profiling Enabling Multimodal Functional Studies of Microbial Communities. <i>Current Topics in Microbiology and Immunology</i> , 2018, 420, 1-21.	1.1	17
42	Dinitrogenase-Driven Photobiological Hydrogen Production Combats Oxidative Stress in <i>Cyanothece</i> sp. Strain ATCC 51142. <i>Applied and Environmental Microbiology</i> , 2016, 82, 7227-7235.	3.1	16
43	A continuous fluorescence assay for simple quantification of bile salt hydrolase activity in the gut microbiome. <i>Scientific Reports</i> , 2019, 9, 1359.	3.3	16
44	Analysis of Citric Acid in Beverages: Use of an Indicator Displacement Assay. <i>Journal of Chemical Education</i> , 2010, 87, 832-835.	2.3	15
45	A Cobalamin Activity-Based Probe Enables Microbial Cell Growth and Finds New Cobalamin-Protein Interactions across Domains. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	15
46	Multi-Omic Dynamics Associate Oxygenic Photosynthesis with Nitrogenase-Mediated H ₂ Production in <i>Cyanothece</i> sp. ATCC 51142. <i>Scientific Reports</i> , 2015, 5, 16004.	3.3	13
47	Benzo[<i>a</i>]pyrene Induction of Glutathione S-Transferases: An Activity-Based Protein Profiling Investigation. <i>Chemical Research in Toxicology</i> , 2019, 32, 1259-1267.	3.3	13
48	Activity-based protein profiling of secreted cellulolytic enzyme activity dynamics in <i>Trichoderma reesei</i> QM6a, NG14, and RUT-C30. <i>Molecular BioSystems</i> , 2013, 9, 2992.	2.9	12
49	Activity-Based Protein Profiling of Bile Salt Hydrolysis in the Human Gut Microbiome with Beta-Lactam or Acrylamide-Based Probes. <i>ChemBioChem</i> , 2021, 22, 1448-1455.	2.6	10
50	Exposure to an Environmental Mixture of Polycyclic Aromatic Hydrocarbons Induces Hepatic Cytochrome P450 Enzymes in Mice. <i>Chemical Research in Toxicology</i> , 2021, 34, 2145-2156.	3.3	10
51	Deficient expression of aldehyde dehydrogenase 1A1 is consistent with increased sensitivity of Gorlin syndrome patients to radiation carcinogenesis. <i>Molecular Carcinogenesis</i> , 2015, 54, 473-484.	2.7	9
52	Multifunctional Activity-Based Protein Profiling of the Developing Lung. <i>Journal of Proteome Research</i> , 2018, 17, 2623-2634.	3.7	9
53	Profiling How the Gut Microbiome Modulates Host Xenobiotic Metabolism in Response to Benzo[<i>a</i>]pyrene and 1-Nitropyrene Exposure. <i>Chemical Research in Toxicology</i> , 2022, 35, 585-596.	3.3	9
54	Gut commensals make choline too. <i>Nature Microbiology</i> , 2019, 4, 4-5.	13.3	8

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55	Activity-Based Protein Profiling of Chitin Catabolism. <i>ChemBioChem</i> , 2021, 22, 717-723.	2.6	8
56	Gut Commensal <i>Bacteroidetes</i> Encode a Novel Class of Vitamin B ₁₂ -Binding Proteins. <i>MBio</i> , 2022, 13, e0284521.	4.1	8
57	Disparate Proteome Responses of Pathogenic and Nonpathogenic <i>Aspergilli</i> to Human Serum Measured by Activity-Based Protein Profiling (ABPP). <i>Molecular and Cellular Proteomics</i> , 2013, 12, 1791-1805.	3.8	7
58	Role of Cytochrome P450 Hydroxylase in the Decreased Accumulation of Vitamin E in Muscle from Turkeys Compared to that from Chickens. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 671-680.	5.2	7
59	Structure Dependent Determination of Organophosphate Targets in Mammalian Tissues Using Activity-Based Protein Profiling. <i>Chemical Research in Toxicology</i> , 2020, 33, 414-425.	3.3	7
60	Simple Analysis of Primary and Secondary Bile Salt Hydrolysis in Mouse and Human Gut Microbiome Samples by Using Fluorogenic Substrates. <i>ChemBioChem</i> , 2020, 21, 3539-3543.	2.6	6
61	Nutritional markers and proteome in patients undergoing treatment for pulmonary tuberculosis differ by geographic region. <i>PLoS ONE</i> , 2021, 16, e0250586.	2.5	5
62	An activity-based probe targeting the streptococcal virulence factor C5a peptidase. <i>Chemical Communications</i> , 0, , .	4.1	4
63	A Global Survey of ATPase Activity in <i>Plasmodium falciparum</i> Asexual Blood Stages and Gametocytes. <i>Molecular and Cellular Proteomics</i> , 2018, 17, 111-120.	3.8	3
64	Detecting differential protein abundance by combining peptide level <i>P</i> -values. <i>Molecular Omics</i> , 2020, 16, 554-562.	2.8	3
65	De novo synthesis of alkyne substituted tryptophans as chemical probes for protein profiling studies. <i>Organic Chemistry Frontiers</i> , 2017, 4, 495-499.	4.5	2
66	Plasma Protein Turnover Rates in Rats Using Stable Isotope Labeling, Global Proteomics, and Activity-Based Protein Profiling. <i>Analytical Chemistry</i> , 2017, 89, 13559-13566.	6.5	2
67	Probe-enabled approaches for function-dependent cell sorting and characterization of microbiome subpopulations. <i>Methods in Enzymology</i> , 2020, 638, 89-107.	1.0	2
68	Bile salt hydrolase profiling by fluorogenic probes in the human gut microbiome. <i>Methods in Enzymology</i> , 2022, 664, 243-265.	1.0	2
69	Ligand- and Structure-Based Analysis of Deep Learning-Generated Potential \pm 2a Adrenoceptor Agonists. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 481-492.	5.4	1
70	A cholera surveillance system. <i>Nature Chemical Biology</i> , 2016, 12, 203-204.	8.0	0
71	A transcriptional relationship with a natural product disrupts mitochondrial biogenesis. <i>Cell Chemical Biology</i> , 2021, 28, 1392-1393.	5.2	0