

Aaron T Wright

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

4,159
citations

172207

29
h-index

114278

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. | 5.0 | 1,056 |
| 2 | Differential receptor arrays and assays for solution-based molecular recognition. Chemical Society Reviews, 2006, 35, 14-28. | 18.7 | 445 |
| 3 | Early-branching gut fungi possess a large, comprehensive array of biomass-degrading enzymes. Science, 2016, 351, 1192-1195. | 6.0 | 266 |
| 4 | A parts list for fungal cellulosomes revealed by comparative genomics. Nature Microbiology, 2017, 2, 17087. | 5.9 | 183 |
| 5 | A Functional Assay for Heparin in Serum Using a Designed Synthetic Receptor. Angewandte Chemie - International Edition, 2005, 44, 5679-5682. | 7.2 | 161 |
| 6 | Tools for the Microbiome: Nano and Beyond. ACS Nano, 2016, 10, 6-37. | 7.3 | 137 |
| 7 | Differential Receptors Create Patterns That Distinguish Various Proteins. Angewandte Chemie - International Edition, 2005, 44, 6375-6378. | 7.2 | 130 |
| 8 | A Suite of Activity-Based Probes for Human Cytochrome P450 Enzymes. Journal of the American Chemical Society, 2009, 131, 10692-10700. | 6.6 | 101 |
| 9 | Chemical Proteomic Probes for Profiling Cytochrome P450 Activities and Drug Interactions In Vivo. Chemistry and Biology, 2007, 14, 1043-1051. | 6.2 | 91 |
| 10 | Hepatic Cytochrome P450 Activity, Abundance, and Expression Throughout Human Development. Drug Metabolism and Disposition, 2016, 44, 984-991. | 1.7 | 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. | 3.3 | 75 |
| 12 | Suite of Activity-Based Probes for Cellulose-Degrading Enzymes. Journal of the American Chemical Society, 2012, 134, 20521-20532. | 6.6 | 67 |
| 13 | Systematic Survey of Serine Hydrolase Activity in Mycobacterium tuberculosis Defines Changes Associated with Persistence. Cell Chemical Biology, 2016, 23, 290-298. | 2.5 | 64 |
| 14 | Selection, Succession, and Stabilization of Soil Microbial Consortia. MSystems, 2019, 4, . | 1.7 | 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. | 6.6 | 63 |
| 16 | Mycobacterium tuberculosis Ser/Thr Protein Kinase B Mediates an Oxygen-Dependent Replication Switch. PLoS Biology, 2014, 12, e1001746. | 2.6 | 63 |
| 17 | Cooperative Metal-Coordination and Ion Pairing in Tripeptide Recognition. Organic Letters, 2004, 6, 1341-1344. | 2.4 | 62 |
| 18 | Profiling microbial lignocellulose degradation and utilization by emergent omics technologies. Critical Reviews in Biotechnology, 2017, 37, 626-640. | 5.1 | 52 |

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|----|--|-----|-----------|
| 19 | Activity-based protein profiling of microbes. <i>Current Opinion in Chemical Biology</i> , 2015, 24, 139-144. | 2.8 | 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. | 6.6 | 48 |
| 21 | Identification of Widespread Adenosine Nucleotide Binding in <i>Mycobacterium tuberculosis</i> . <i>Chemistry and Biology</i> , 2013, 20, 123-133. | 6.2 | 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. | 7.2 | 37 |
| 24 | Activity-Based Protein Profiling of Ammonia Monooxygenase in <i>Nitrosomonas europaea</i> . <i>Applied and Environmental Microbiology</i> , 2016, 82, 2270-2279. | 1.4 | 36 |
| 25 | Live Cell Chemical Profiling of Temporal Redox Dynamics in a Photoautotrophic Cyanobacterium. <i>ACS Chemical Biology</i> , 2014, 9, 291-300. | 1.6 | 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, . | 3.3 | 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. | 6.6 | 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. | 3.3 | 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. | 1.5 | 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. | 1.6 | 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. | 1.7 | 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. | 2.1 | 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. | 1.1 | 27 |
| 35 | Impact of Pregnancy on the Pharmacokinetics of Dibenzo[def,p]chrysene in Mice. <i>Toxicological Sciences</i> , 2013, 135, 48-62. | 1.4 | 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. | 1.6 | 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. | 0.8 | 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. | 1.2 | 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. | 7.2 | 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. | 0.7 | 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. | 1.4 | 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. | 1.6 | 16 |
| 44 | Analysis of Citric Acid in Beverages: Use of an Indicator Displacement Assay. <i>Journal of Chemical Education</i> , 2010, 87, 832-835. | 1.1 | 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, . | 1.4 | 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. | 1.6 | 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. | 1.7 | 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. | 1.3 | 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. | 1.7 | 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. | 1.3 | 9 |
| 52 | Multifunctional Activity-Based Protein Profiling of the Developing Lung. <i>Journal of Proteome Research</i> , 2018, 17, 2623-2634. | 1.8 | 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. | 1.7 | 9 |
| 54 | Gut commensals make choline too. <i>Nature Microbiology</i> , 2019, 4, 4-5. | 5.9 | 8 |

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|----|--|-----|-----------|
| 55 | Activity-Based Protein Profiling of Chitin Catabolism. <i>ChemBioChem</i> , 2021, 22, 717-723. | 1.3 | 8 |
| 56 | Gut Commensal <i>Bacteroidetes</i> Encode a Novel Class of Vitamin B ₁₂ -Binding Proteins. <i>MBio</i> , 2022, 13, e0284521. | 1.8 | 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. | 2.5 | 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. | 2.4 | 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. | 1.7 | 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. | 1.3 | 6 |
| 61 | Nutritional markers and proteome in patients undergoing treatment for pulmonary tuberculosis differ by geographic region. <i>PLoS ONE</i> , 2021, 16, e0250586. | 1.1 | 5 |
| 62 | An activity-based probe targeting the streptococcal virulence factor C5a peptidase. <i>Chemical Communications</i> , 0, , . | 2.2 | 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. | 2.5 | 3 |
| 64 | Detecting differential protein abundance by combining peptide level <i>P</i> -values. <i>Molecular Omics</i> , 2020, 16, 554-562. | 1.4 | 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. | 2.3 | 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. | 3.2 | 2 |
| 67 | Probe-enabled approaches for function-dependent cell sorting and characterization of microbiome subpopulations. <i>Methods in Enzymology</i> , 2020, 638, 89-107. | 0.4 | 2 |
| 68 | Bile salt hydrolase profiling by fluorogenic probes in the human gut microbiome. <i>Methods in Enzymology</i> , 2022, 664, 243-265. | 0.4 | 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. | 2.5 | 1 |
| 70 | A cholera surveillance system. <i>Nature Chemical Biology</i> , 2016, 12, 203-204. | 3.9 | 0 |
| 71 | A transcriptional relationship with a natural product disrupts mitochondrial biogenesis. <i>Cell Chemical Biology</i> , 2021, 28, 1392-1393. | 2.5 | 0 |