

Adrian D Hegeman

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

86
papers

3,896
citations

36
h-index

61
g-index

89
ext. papers

4,318
ext. citations

6.2
avg, IF

5.28
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 86 | Convergent evolution of a blood-red nectar pigment in vertebrate-pollinated flowers.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, | 11.5 | 1 |
| 85 | Enzymes as Parts in Need of Replacement - and How to Extend Their Working Life. <i>Trends in Plant Science</i> , 2020 , 25, 661-669 | 13.1 | 10 |
| 84 | Cultivation of native plants for seed and biomass yield. <i>Agronomy Journal</i> , 2020 , 112, 1815-1827 | 2.2 | 1 |
| 83 | Genetic analysis of stilbenoid profiles in grapevine stems reveals a major mQTL hotspot on chromosome 18 associated with disease-resistance motifs. <i>Horticulture Research</i> , 2019 , 6, 121 | 7.7 | 7 |
| 82 | Van Krevelen diagram visualization of high resolution-mass spectrometry metabolomics data with OpenVanKrevelen. <i>Metabolomics</i> , 2018 , 14, 48 | 4.7 | 21 |
| 81 | Direct detection of surface localized specialized metabolites from <i>Glycyrrhiza lepidota</i> (American licorice) by leaf spray mass spectrometry. <i>Planta</i> , 2018 , 247, 267-275 | 4.7 | 6 |
| 80 | Metabolic Patterns in Revealed by N Stable Isotope Labeling of Amino Acids in Photoautotrophic, Heterotrophic, and Mixotrophic Growth Conditions. <i>Frontiers in Chemistry</i> , 2018 , 6, 191 | 5 | 8 |
| 79 | Combinations of Abiotic Factors Differentially Alter Production of Plant Secondary Metabolites in Five Woody Plant Species in the Boreal-Temperate Transition Zone. <i>Frontiers in Plant Science</i> , 2018 , 9, 1257 | 6.2 | 39 |
| 78 | Improve your Galaxy text life: The Query Tabular Tool. <i>F1000Research</i> , 2018 , 7, 1604 | 3.6 | 3 |
| 77 | Leaf Spray Mass Spectrometry: A Rapid Ambient Ionization Technique to Directly Assess Metabolites from Plant Tissues. <i>Journal of Visualized Experiments</i> , 2018 , | 1.6 | 2 |
| 76 | High Enrichment [¹³ C]-Labeling of Plants Grown Hydroponically from Seed to Seed in a Controlled C-Carbon Dioxide Atmosphere Enclosure. <i>Current Protocols in Plant Biology</i> , 2018 , 3, e20069 | 2.8 | 2 |
| 75 | 3-Acyl dihydroflavonols from poplar resins collected by honey bees are active against the bee pathogens <i>Paenibacillus</i> larvae and <i>Ascosphaera apis</i> . <i>Phytochemistry</i> , 2017 , 138, 83-92 | 4 | 16 |
| 74 | An improved method for fast and selective separation of carotenoids by LC-MS. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017 , 1067, 34-37 | 3.2 | 8 |
| 73 | Recent advances in stable isotope-enabled mass spectrometry-based plant metabolomics. <i>Current Opinion in Biotechnology</i> , 2017 , 43, 41-48 | 11.4 | 43 |
| 72 | Measuring relative utilization of aerobic glycolysis in breast cancer cells by positional isotopic discrimination. <i>FEBS Letters</i> , 2016 , 590, 3179-87 | 3.8 | 10 |
| 71 | Proteome Scale-Protein Turnover Analysis Using High Resolution Mass Spectrometric Data from Stable-Isotope Labeled Plants. <i>Journal of Proteome Research</i> , 2016 , 15, 851-67 | 5.6 | 21 |
| 70 | Extraction, purification, methylation and GC-MS analysis of short-chain carboxylic acids for metabolic flux analysis. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016 , 1028, 165-174 | 3.2 | 3 |

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|----|---|------|----|
| 69 | Retention projection enables accurate calculation of liquid chromatographic retention times across labs and methods. <i>Journal of Chromatography A</i> , 2015 , 1412, 43-51 | 4.5 | 37 |
| 68 | Quantitative evaluation of IAA conjugate pools in Arabidopsis thaliana. <i>Planta</i> , 2015 , 241, 539-48 | 4.7 | 10 |
| 67 | Inhibition of Ophiognomonia clavignenti-juglandacearum by Juglans Species Bark Extracts. <i>Plant Disease</i> , 2015 , 99, 401-408 | 1.5 | 3 |
| 66 | A facile means for the identification of indolic compounds from plant tissues. <i>Plant Journal</i> , 2014 , 79, 1065-75 | 6.9 | 23 |
| 65 | Impact of esterified bacteriochlorophylls on the biogenesis of chlorosomes in Chloroflexus aurantiacus. <i>Photosynthesis Research</i> , 2014 , 122, 69-86 | 3.7 | 6 |
| 64 | Seasonal changes in metabolic profiles of galls and leaves of Rhus chinensis using gas chromatography mass spectrometry and liquid chromatography quadrupole time-of-flight mass spectrometry 2014 , 57, 127-135 | | 2 |
| 63 | Plant metabolomics for plant chemical responses to belowground community change by climate change 2014 , 57, 137-149 | | 16 |
| 62 | Regioselective solvent-phase deuteration of polyphenolic compounds informs their identification by mass spectrometry. <i>Analytical Biochemistry</i> , 2014 , 452, 76-85 | 3.1 | 5 |
| 61 | Evaluating solvent extraction systems using metabolomics approaches. <i>RSC Advances</i> , 2014 , 4, 26325-26334 | 3.7 | 27 |
| 60 | Differential Accumulation and Degradation Of Anthocyanins In Red Norland Periderm is Dependent On Soil Type And Tuber Storage Duration. <i>American Journal of Potato Research</i> , 2014 , 91, 696-705 | 2.1 | 4 |
| 59 | Hypoglycin A concentrations in seeds of Acer pseudoplatanus trees growing on atypical myopathy-affected and control pastures. <i>Journal of Veterinary Internal Medicine</i> , 2014 , 28, 1289-93 | 3.1 | 42 |
| 58 | Measuring the chemical and cytotoxic variability of commercially available kava (Piper methysticum G. Forster). <i>PLoS ONE</i> , 2014 , 9, e111572 | 3.7 | 27 |
| 57 | Targeted deuteration of polyphenolics for their qualitative and quantitative metabolomic analysis in plant-derived extracts. <i>Methods in Molecular Biology</i> , 2014 , 1083, 17-29 | 1.4 | 2 |
| 56 | Chemical and stereochemical actions of UDP-galactose 4-epimerase. <i>Accounts of Chemical Research</i> , 2013 , 46, 1417-26 | 24.3 | 25 |
| 55 | Seasonal pasture myopathy/atypical myopathy in North America associated with ingestion of hypoglycin A within seeds of the box elder tree. <i>Equine Veterinary Journal</i> , 2013 , 45, 419-26 | 2.4 | 71 |
| 54 | The transmitting tissue of Nicotiana tabacum is not essential to pollen tube growth, and its ablation can reverse prezygotic interspecific barriers. <i>Plant Reproduction</i> , 2013 , 26, 339-50 | 3.9 | 10 |
| 53 | Development of a simple, fast, and accurate method for the direct quantification of selective estrogen receptor modulators using stable isotope dilution mass spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , 2013 , 61, 7028-37 | 5.7 | 4 |
| 52 | Candidate serum biomarkers for early intestinal cancer using ¹⁵ N metabolic labeling and quantitative proteomics in the ApcMin/+ mouse. <i>Journal of Proteome Research</i> , 2013 , 12, 4152-66 | 5.6 | 19 |

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|----|---|------|----|
| 51 | PELPIII: the class III pistil-specific extensin-like <i>Nicotiana tabacum</i> proteins are essential for interspecific incompatibility. <i>Plant Journal</i> , 2013 , 74, 805-14 | 6.9 | 23 |
| 50 | Metabolomics reveals the origins of antimicrobial plant resins collected by honey bees. <i>PLoS ONE</i> , 2013 , 8, e77512 | 3.7 | 47 |
| 49 | Easy and accurate calculation of programmed temperature gas chromatographic retention times by back-calculation of temperature and hold-up time profiles. <i>Journal of Chromatography A</i> , 2012 , 1263, 179-88 | 4.5 | 15 |
| 48 | Qualitative and quantitative screening of amino acids in plant tissues. <i>Methods in Molecular Biology</i> , 2012 , 918, 165-78 | 1.4 | 3 |
| 47 | Protocol: High-throughput and quantitative assays of auxin and auxin precursors from minute tissue samples. <i>Plant Methods</i> , 2012 , 8, 31 | 5.8 | 49 |
| 46 | Novel NMR and MS Approaches to Metabolomics. <i>Methods in Pharmacology and Toxicology</i> , 2012 , 199-230 | 1 | |
| 45 | In vitro interactions between <i>Fusarium verticillioides</i> and <i>Ustilago maydis</i> through real-time PCR and metabolic profiling. <i>Fungal Genetics and Biology</i> , 2011 , 48, 874-85 | 3.9 | 44 |
| 44 | Genetic and environmental interactions determine plant defences against herbivores. <i>Journal of Ecology</i> , 2011 , 99, 313-326 | 6 | 67 |
| 43 | Easy and accurate high-performance liquid chromatography retention prediction with different gradients, flow rates, and instruments by back-calculation of gradient and flow rate profiles. <i>Journal of Chromatography A</i> , 2011 , 1218, 6742-9 | 4.5 | 38 |
| 42 | A study on retention "projection" as a supplementary means for compound identification by liquid chromatography-mass spectrometry capable of predicting retention with different gradients, flow rates, and instruments. <i>Journal of Chromatography A</i> , 2011 , 1218, 6732-41 | 4.5 | 42 |
| 41 | An automated growth enclosure for metabolic labeling of <i>Arabidopsis thaliana</i> with ¹³ C-carbon dioxide - an in vivo labeling system for proteomics and metabolomics research. <i>Proteome Science</i> , 2011 , 9, 9 | 2.6 | 30 |
| 40 | Evaluation of instrumental methods for the untargeted analysis of chemical stimuli of orange juice flavour. <i>Flavour and Fragrance Journal</i> , 2011 , 26, 429-440 | 2.5 | 32 |
| 39 | Measuring the turnover rates of <i>Arabidopsis</i> proteins using deuterium oxide: an auxin signaling case study. <i>Plant Journal</i> , 2010 , 63, 680-95 | 6.9 | 35 |
| 38 | Plant metabolomics--meeting the analytical challenges of comprehensive metabolite analysis. <i>Briefings in Functional Genomics</i> , 2010 , 9, 139-48 | 4.9 | 82 |
| 37 | Microscale analysis of amino acids using gas chromatography-mass spectrometry after methyl chloroformate derivatization. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2010 , 878, 2199-208 | 3.2 | 46 |
| 36 | Cyanogenesis of wild lima bean (<i>Phaseolus lunatus</i> L.) is an efficient direct defence in nature. <i>PLoS ONE</i> , 2009 , 4, e5450 | 3.7 | 60 |
| 35 | Analyzing plant defenses in nature. <i>Plant Signaling and Behavior</i> , 2009 , 4, 743-5 | 2.5 | 17 |
| 34 | Discovery and validation of colonic tumor-associated proteins via metabolic labeling and stable isotopic dilution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 17235-40 | 11.5 | 29 |

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|----|--|------|-----|
| 33 | Metabolite identification via the Madison Metabolomics Consortium Database. <i>Nature Biotechnology</i> , 2008 , 26, 162-4 | 44.5 | 546 |
| 32 | The Radical SAM Superfamily. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2008 , 43, 63-88 | 8.7 | 421 |
| 31 | Chapter 20 Metabolic Labeling Approaches for the Relative Quantification of Proteins. <i>Comprehensive Analytical Chemistry</i> , 2008 , 479-530 | 1.9 | 2 |
| 30 | Prediction of error associated with false-positive rate determination for peptide identification in large-scale proteomics experiments using a combined reverse and forward peptide sequence database strategy. <i>Journal of Proteome Research</i> , 2007 , 6, 392-8 | 5.6 | 62 |
| 29 | Stable isotope assisted assignment of elemental compositions for metabolomics. <i>Analytical Chemistry</i> , 2007 , 79, 6912-21 | 7.8 | 78 |
| 28 | Implications of ¹⁵ N-metabolic labeling for automated peptide identification in <i>Arabidopsis thaliana</i> . <i>Proteomics</i> , 2007 , 7, 1279-92 | 4.8 | 101 |
| 27 | Comparison of full versus partial metabolic labeling for quantitative proteomics analysis in <i>Arabidopsis thaliana</i> . <i>Molecular and Cellular Proteomics</i> , 2007 , 6, 860-81 | 7.6 | 89 |
| 26 | Enzymatic Reaction Mechanisms 2007 , | | 156 |
| 25 | A quantitative analysis of <i>Arabidopsis</i> plasma membrane using trypsin-catalyzed (¹⁸ O) labeling. <i>Molecular and Cellular Proteomics</i> , 2006 , 5, 1382-95 | 7.6 | 79 |
| 24 | A transcriptome-based characterization of habituation in plant tissue culture. <i>Plant Physiology</i> , 2006 , 140, 1255-78 | 6.6 | 79 |
| 23 | Free radical mechanisms in enzymology. <i>Chemical Reviews</i> , 2006 , 106, 3302-16 | 68.1 | 109 |
| 22 | A phyloproteomic characterization of in vitro autophosphorylation in calcium-dependent protein kinases. <i>Proteomics</i> , 2006 , 6, 3649-64 | 4.8 | 67 |
| 21 | NEW BIOINFORMATICS RESOURCES FOR METABOLOMICS 2006 , | | 17 |
| 20 | Identification of transcribed sequences in <i>Arabidopsis thaliana</i> by using high-resolution genome tiling arrays. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 4453-8 | 11.5 | 136 |
| 19 | Autophosphorylation and subcellular localization dynamics of a salt- and water deficit-induced calcium-dependent protein kinase from ice plant. <i>Plant Physiology</i> , 2004 , 135, 1430-46 | 6.6 | 86 |
| 18 | Crystal structure of the protein from gene At3g17210 of <i>Arabidopsis thaliana</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2004 , 57, 218-20 | 4.2 | 5 |
| 17 | Crystal structure of At2g03760, a putative steroid sulfotransferase from <i>Arabidopsis thaliana</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2004 , 57, 854-7 | 4.2 | 14 |
| 16 | An isotope labeling strategy for quantifying the degree of phosphorylation at multiple sites in proteins. <i>Journal of the American Society for Mass Spectrometry</i> , 2004 , 15, 647-53 | 3.5 | 53 |

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|----|--|------|-----|
| 15 | The structure of NADH in the enzyme dTDP-d-glucose dehydratase (RmlB). <i>Journal of the American Chemical Society</i> , 2003 , 125, 11872-8 | 16.4 | 47 |
| 14 | Role of Nucleic Acid and Protein Manipulation Technologies in High-throughput Structural Biology Efforts 2003 , | | 2 |
| 13 | Toward a structural understanding of the dehydratase mechanism. <i>Structure</i> , 2002 , 10, 81-92 | 5.2 | 81 |
| 12 | Concerted and stepwise dehydration mechanisms observed in wild-type and mutated Escherichia coli dTDP-glucose 4,6-dehydratase. <i>Biochemistry</i> , 2002 , 41, 2797-804 | 3.2 | 26 |
| 11 | Probing catalysis by Escherichia coli dTDP-glucose-4,6-dehydratase: identification and preliminary characterization of functional amino acid residues at the active site. <i>Biochemistry</i> , 2001 , 40, 6598-610 | 3.2 | 36 |
| 10 | Dehydration is catalyzed by glutamate-136 and aspartic acid-135 active site residues in Escherichia coli dTDP-glucose 4,6-dehydratase. <i>Biochemistry</i> , 2001 , 40, 12497-504 | 3.2 | 27 |
| 9 | Characterization of enzymatic processes by rapid mix-quench mass spectrometry: the case of dTDP-glucose 4,6-dehydratase. <i>Biochemistry</i> , 2000 , 39, 13633-40 | 3.2 | 49 |
| 8 | Structural analysis of UDP-sugar binding to UDP-galactose 4-epimerase from Escherichia coli. <i>Biochemistry</i> , 1997 , 36, 6294-304 | 3.2 | 107 |
| 7 | Novel genes expressed in the chick otocyst during development: identification using differential display of RNA. <i>International Journal of Developmental Neuroscience</i> , 1997 , 15, 585-94 | 2.7 | 2 |
| 6 | Expression of mal is associated with urothelial differentiation in vitro: identification by differential display reverse-transcriptase polymerase chain reaction. <i>Differentiation</i> , 1997 , 61, 177-85 | 3.5 | 80 |
| 5 | Neoglycopolymers produced by aqueous ring-opening metathesis polymerization: decreasing saccharide density increases activity. <i>Journal of Molecular Catalysis A</i> , 1997 , 116, 209-216 | | 55 |
| 4 | Identification of genes expressed after noise exposure in the chick basilar papilla. <i>Hearing Research</i> , 1996 , 96, 20-32 | 3.9 | 53 |
| 3 | Sequence of the cDNA for the heart/muscle isoform of mouse cytochrome c oxidase subunit VIII. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1995 , 1261, 311-4 | | 7 |
| 2 | An extremely mild 3-aza-claisen reaction. 2. New conditions and the rearrangement of Eheteroatom substituted amides. <i>Tetrahedron Letters</i> , 1993 , 34, 1453-1456 | 2 | 21 |
| 1 | Metabolic signatures of Arabidopsis thaliana abiotic stress responses elucidate patterns in stress priming, acclimation, and recovery. <i>Stress Biology</i> , 1 | | 5 |