

Jessica E Prenni

List of Publications by Year in descending order

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124
papers

3,648
citations

126708

33
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168136

53
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132
docs citations

132
times ranked

6589
citing authors

#	ARTICLE	IF	CITATIONS
1	Large-scale Metabolomic Profiling Identifies Novel Biomarkers for Incident Coronary Heart Disease. <i>PLoS Genetics</i> , 2014, 10, e1004801.	1.5	225
2	RAMClust: A Novel Feature Clustering Method Enables Spectral-Matching-Based Annotation for Metabolomics Data. <i>Analytical Chemistry</i> , 2014, 86, 6812-6817.	3.2	219
3	Portrait of a Pathogen: The <i>Mycobacterium tuberculosis</i> Proteome In Vivo. <i>PLoS ONE</i> , 2010, 5, e13938.	1.1	180
4	The impact of rain on ice nuclei populations at a forested site in Colorado. <i>Geophysical Research Letters</i> , 2013, 40, 227-231.	1.5	110
5	Rice Bran Fermented with <i>Saccharomyces boulardii</i> Generates Novel Metabolite Profiles with Bioactivity. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 1862-1870.	2.4	109
6	The Identification and Location of Succinyl Residues and the Characterization of the Interior Arabinan Region Allow for a Model of the Complete Primary Structure of <i>Mycobacterium tuberculosis</i> Mycolyl Arabinogalactan. <i>Journal of Biological Chemistry</i> , 2008, 283, 12992-13000.	1.6	82
7	Upregulation of the Phthiocerol Dimycocerosate Biosynthetic Pathway by Rifampin-Resistant, <i>rpoB</i> Mutant <i>Mycobacterium tuberculosis</i> . <i>Journal of Bacteriology</i> , 2012, 194, 6441-6452.	1.0	80
8	Non-targeted Metabolomics in Diverse Sorghum Breeding Lines Indicates Primary and Secondary Metabolite Profiles Are Associated with Plant Biomass Accumulation and Photosynthesis. <i>Frontiers in Plant Science</i> , 2016, 7, 953.	1.7	80
9	Enabling Efficient and Confident Annotation of LC-MS Metabolomics Data through MS1 Spectrum and Time Prediction. <i>Analytical Chemistry</i> , 2016, 88, 9226-9234.	3.2	77
10	Desorption/Ionization on Silicon Time-of-Flight/Time-of-Flight Mass Spectrometry. <i>Analytical Chemistry</i> , 2003, 75, 2504-2506.	3.2	74
11	Non-targeted metabolomics combined with genetic analyses identifies bile acid synthesis and phospholipid metabolism as being associated with incident type 2 diabetes. <i>Diabetologia</i> , 2016, 59, 2114-2124.	2.9	74
12	Linker histone H1.0 interacts with an extensive network of proteins found in the nucleolus. <i>Nucleic Acids Research</i> , 2013, 41, 4026-4035.	6.5	73
13	The metabolic fingerprint of p,p'-DDE and HCB exposure in humans. <i>Environment International</i> , 2016, 88, 60-66.	4.8	61
14	Comparison of Machine Learning Algorithms for Predictive Modeling of Beef Attributes Using Rapid Evaporative Ionization Mass Spectrometry (REIMS) Data. <i>Scientific Reports</i> , 2019, 9, 5721.	1.6	61
15	Adaptive remodeling of skeletal muscle energy metabolism in high-altitude hypoxia: Lessons from AltitudeOmics. <i>Journal of Biological Chemistry</i> , 2018, 293, 6659-6671.	1.6	57
16	Multiplexed analysis of steroid hormones in human serum using novel microflow tile technology and LC-MS/MS. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2013, 934, 16-21.	1.2	56
17	Activator-dependent p300 Acetylation of Chromatin in Vitro. <i>Journal of Biological Chemistry</i> , 2010, 285, 31954-31964.	1.6	55
18	Identification of metabolic profiles associated with human exposure to perfluoroalkyl substances. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2019, 29, 196-205.	1.8	55

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19	Evaluating plant immunity using mass spectrometry-based metabolomics workflows. <i>Frontiers in Plant Science</i> , 2014, 5, 291.	1.7	54
20	Mitochondrial Degeneration, Depletion of NADH, and Oxidative Stress Decrease Color Stability of Wet-Aged Beef Longissimus Steaks. <i>Journal of Food Science</i> , 2019, 84, 38-50.	1.5	54
21	Deciphering the proteome of the in vivo diagnostic reagent "purified protein derivative" from <i>Mycobacterium tuberculosis</i> . <i>Proteomics</i> , 2012, 12, 979-991.	1.3	50
22	Application of nontargeted metabolite profiling to discover novel markers of quality traits in an advanced population of malting barley. <i>Plant Biotechnology Journal</i> , 2014, 12, 147-160.	4.1	50
23	Impact of inoculum sources on biotransformation of pharmaceuticals and personal care products. <i>Water Research</i> , 2017, 125, 227-236.	5.3	48
24	Retention projection enables accurate calculation of liquid chromatographic retention times across labs and methods. <i>Journal of Chromatography A</i> , 2015, 1412, 43-51.	1.8	47
25	Glucose challenge metabolomics implicates medium-chain acylcarnitines in insulin resistance. <i>Scientific Reports</i> , 2018, 8, 8691.	1.6	47
26	Association of human immune response to <i>Aedes aegypti</i> salivary proteins with dengue disease severity. <i>Parasite Immunology</i> , 2012, 34, 15-22.	0.7	45
27	Proteomic profiling of eccrine sweat reveals its potential as a diagnostic biofluid for active tuberculosis. <i>Proteomics - Clinical Applications</i> , 2016, 10, 547-553.	0.8	45
28	Descriptive proteomic analysis shows protein variability between closely related clinical isolates of <i>Mycobacterium tuberculosis</i> . <i>Proteomics</i> , 2010, 10, 1966-1984.	1.3	42
29	A Genome-Wide Assessment of Variability in Human Serum Metabolism. <i>Human Mutation</i> , 2013, 34, 515-524.	1.1	42
30	Proteomic Characterization of the Nucleolar Linker Histone H1 Interaction Network. <i>Journal of Molecular Biology</i> , 2015, 427, 2056-2071.	2.0	42
31	Metabolomics and Ionomics of Potato Tuber Reveals an Influence of Cultivar and Market Class on Human Nutrients and Bioactive Compounds. <i>Frontiers in Nutrition</i> , 2018, 5, 36.	1.6	39
32	Electrospray Ionization Mass Spectrometric Analysis of Blood for Differentiation of Species. <i>Analytical Biochemistry</i> , 1999, 268, 252-261.	1.1	38
33	Assigning precursor-product ion relationships in indiscriminant MS/MS data from non-targeted metabolite profiling studies. <i>Metabolomics</i> , 2013, 9, 33-43.	1.4	35
34	Comprehensive Tandem-Mass-Spectrometry Coverage of Complex Samples Enabled by Data-Set-Dependent Acquisition. <i>Analytical Chemistry</i> , 2018, 90, 8020-8027.	3.2	35
35	Microgreens: Consumer sensory perception and acceptance of an emerging functional food crop. <i>Journal of Food Science</i> , 2020, 85, 926-935.	1.5	34
36	Proteomic analysis of brush-border membrane vesicles isolated from purified proximal convoluted tubules. <i>American Journal of Physiology - Renal Physiology</i> , 2010, 298, F1323-F1331.	1.3	32

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37	Metabolomic profiling of beer reveals effect of temperature on non-volatile small molecules during short-term storage. <i>Food Chemistry</i> , 2012, 135, 1284-1289.	4.2	32
38	Metabolomics of sorghum roots during nitrogen stress reveals compromised metabolic capacity for salicylic acid biosynthesis. <i>Plant Direct</i> , 2019, 3, e00122.	0.8	32
39	Making complex measurements of meat composition fast: Application of rapid evaporative ionisation mass spectrometry to measuring meat quality and fraud. <i>Meat Science</i> , 2021, 181, 108333.	2.7	30
40	Variation in Root Exudate Composition Influences Soil Microbiome Membership and Function. <i>Applied and Environmental Microbiology</i> , 2022, 88, e0022622.	1.4	30
41	Large-scale non-targeted metabolomic profiling in three human population-based studies. <i>Metabolomics</i> , 2016, 12, 1.	1.4	29
42	Gender Diversity in a STEM Subfield – Analysis of a Large Scientific Society and Its Annual Conferences. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 2523-2531.	1.2	27
43	Advances in Nutritional Metabolomics. <i>Current Metabolomics</i> , 2013, 1, 109-120.	0.5	26
44	High-throughput quantitative analysis of phytohormones in sorghum leaf and root tissue by ultra-performance liquid chromatography-mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 4839-4848.	1.9	26
45	Tandem mass tag labeling to characterize muscle-specific proteome changes in beef during early postmortem period. <i>Journal of Proteomics</i> , 2020, 222, 103794.	1.2	26
46	Characterization of the canine urinary proteome. <i>Veterinary Clinical Pathology</i> , 2014, 43, 193-205.	0.3	24
47	A novel microflow LC-MS method for the quantitation of endocannabinoids in serum. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016, 1033-1034, 271-277.	1.2	24
48	Tafazzin deficiency impairs CoA-dependent oxidative metabolism in cardiac mitochondria. <i>Journal of Biological Chemistry</i> , 2020, 295, 12485-12497.	1.6	24
49	Proteomic Analysis of Diaminochlorotriazine Adducts in Wistar Rat Pituitary Glands and L1210 Rat Pituitary Cells. <i>Chemical Research in Toxicology</i> , 2008, 21, 844-851.	1.7	23
50	The metabolites urobilin and sphingomyelin (30:1) are associated with incident heart failure in the general population. <i>ESC Heart Failure</i> , 2019, 6, 764-773.	1.4	23
51	Comprehensive Evaluation of Metabolites and Minerals in 6 Microgreen Species and the Influence of Maturity. <i>Current Developments in Nutrition</i> , 2021, 5, nzaa180.	0.1	23
52	Pregnancy-induced changes in metabolome and proteome in ovine uterine flushings. <i>Biology of Reproduction</i> , 2017, 97, 273-287.	1.2	22
53	Data Processing for GC-MS- and LC-MS-Based Untargeted Metabolomics. <i>Methods in Molecular Biology</i> , 2019, 1978, 287-299.	0.4	22
54	Common bean varieties demonstrate differential physiological and metabolic responses to the pathogenic fungus <i>Sclerotinia sclerotiorum</i> . <i>Plant, Cell and Environment</i> , 2018, 41, 2141-2154.	2.8	21

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55	Identification of a Novel Hemoglobin Adduct in Sprague Dawley Rats Exposed to Atrazine. <i>Chemical Research in Toxicology</i> , 2006, 19, 692-700.	1.7	20
56	Response of the mitochondrial proteome of rat renal proximal convoluted tubules to chronic metabolic acidosis. <i>American Journal of Physiology - Renal Physiology</i> , 2013, 304, F145-F155.	1.3	20
57	Early metabolic priming under differing carbon sufficiency conditions influences peach fruit quality development. <i>Plant Physiology and Biochemistry</i> , 2020, 157, 416-431.	2.8	20
58	Microbial Community Field Surveys Reveal Abundant Pseudomonas Population in Sorghum Rhizosphere Composed of Many Closely Related Phylotypes. <i>Frontiers in Microbiology</i> , 2021, 12, 598180.	1.5	20
59	Effect of Insulin Resistance on Monounsaturated Fatty Acid Levels: A Multi-cohort Non-targeted Metabolomics and Mendelian Randomization Study. <i>PLoS Genetics</i> , 2016, 12, e1006379.	1.5	20
60	Retention Projection Enables Reliable Use of Shared Gas Chromatographic Retention Data Across Laboratories, Instruments, and Methods. <i>Analytical Chemistry</i> , 2013, 85, 11650-11657.	3.2	19
61	Metabolomics of the tick-Borrelia interaction during the nymphal tick blood meal. <i>Scientific Reports</i> , 2017, 7, 44394.	1.6	19
62	Biochemical Characterization of Isoniazid-resistant Mycobacterium tuberculosis: Can the Analysis of Clonal Strains Reveal Novel Targetable Pathways?. <i>Molecular and Cellular Proteomics</i> , 2018, 17, 1685-1701.	2.5	19
63	Improved Detection of Quantitative Differences Using a Combination of Spectral Counting and MS/MS Total Ion Current. <i>Journal of Proteome Research</i> , 2013, 12, 1996-2004.	1.8	18
64	Stacked Injections of Biphasic Extractions for Improved Metabolomic Coverage and Sample Throughput. <i>Analytical Chemistry</i> , 2018, 90, 1147-1153.	3.2	18
65	Proteomic profiling and pathway analysis of the response of rat renal proximal convoluted tubules to metabolic acidosis. <i>American Journal of Physiology - Renal Physiology</i> , 2013, 305, F628-F640.	1.3	17
66	Leveraging Non-Targeted Metabolite Profiling via Statistical Genomics. <i>PLoS ONE</i> , 2013, 8, e57667.	1.1	17
67	Quantitative analysis of short-chain fatty acids in human plasma and serum by GC-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 4391-4399.	1.9	17
68	Exploring the Bone Proteome to Help Explain Altered Bone Remodeling and Preservation of Bone Architecture and Strength in Hibernating Marmots. <i>Physiological and Biochemical Zoology</i> , 2016, 89, 364-376.	0.6	16
69	Impact of primary carbon sources on microbiome shaping and biotransformation of pharmaceuticals and personal care products. <i>Biodegradation</i> , 2019, 30, 127-145.	1.5	16
70	Metabolic signatures of the true physiological impact of canopy light environment on peach fruit quality. <i>Environmental and Experimental Botany</i> , 2021, 191, 104630.	2.0	16
71	Preliminary characterization of the murine membrane reticulocyte proteome. <i>Blood Cells, Molecules, and Diseases</i> , 2012, 49, 74-82.	0.6	15
72	Evaluation of non-volatile metabolites in beer stored at high temperature and utility as an accelerated method to predict flavour stability. <i>Food Chemistry</i> , 2016, 200, 301-307.	4.2	15

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73	Seasonal Changes in Endocannabinoid Concentrations between Active and Hibernating Marmots (<i>Marmota flaviventris</i>). <i>Journal of Biological Rhythms</i> , 2018, 33, 388-401.	1.4	15
74	Proteome analysis of protein partners to nucleosomes containing canonical H2A or the variant histones H2A.Z or H2A.X. <i>Biological Chemistry</i> , 2012, 393, 47-61.	1.2	14
75	Metabolomic Investigation of Tenderness and Aging Response in Beef Longissimus Steaks. <i>Meat and Muscle Biology</i> , 2019, 3, .	0.7	14
76	A Multi-Cohort Metabolomics Analysis Discloses Sphingomyelin (32:1) Levels to be Inversely Related to Incident Ischemic Stroke. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2020, 29, 104476.	0.7	14
77	Molecular orientation of a model liquid crystal alignment layer. <i>Talanta</i> , 2003, 60, 801-808.	2.9	13
78	Identification of phosphorylated residues on varicella-zoster virus immediate-early protein ORF63. <i>Journal of General Virology</i> , 2010, 91, 1133-1137.	1.3	13
79	ORIGINAL RESEARCH: Comparison of methods for depletion of albumin and IgG from equine serum. <i>Veterinary Clinical Pathology</i> , 2010, 39, 337-345.	0.3	13
80	Analysis of the metabolome of <i>Anopheles gambiae</i> mosquito after exposure to <i>Mycobacterium ulcerans</i> . <i>Scientific Reports</i> , 2015, 5, 9242.	1.6	13
81	Foodomics: A Data-Driven Approach to Revolutionize Nutrition and Sustainable Diets. <i>Frontiers in Nutrition</i> , 2022, 9, 874312.	1.6	13
82	Protein characterization using Liquid Chromatography Desorption Ionization on Silicon Mass Spectrometry (LC-DIOS-MS). <i>Spectroscopy</i> , 2003, 17, 693-698.	0.8	12
83	Hands-on Workshops as An Effective Means of Learning Advanced Technologies Including Genomics, Proteomics and Bioinformatics. <i>Genomics, Proteomics and Bioinformatics</i> , 2013, 11, 368-377.	3.0	12
84	MALDI-TOF-MS with PLS Modeling Enables Strain Typing of the Bacterial Plant Pathogen <i>Xanthomonas axonopodis</i> . <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 413-421.	1.2	12
85	Multicohort Metabolomics Analysis Discloses 9- <i>Decenoylcarnitine</i> to Be Associated With Incident Atrial Fibrillation. <i>Journal of the American Heart Association</i> , 2021, 10, e017579.	1.6	12
86	Effect of Interfacial Refractive Index on Optical Molecular Orientation Measurements. <i>Analytical Chemistry</i> , 2002, 74, 5954-5959.	3.2	11
87	Large Scale Non-targeted Metabolomic Profiling of Serum by Ultra Performance Liquid Chromatography-Mass Spectrometry (UPLC-MS). <i>Journal of Visualized Experiments</i> , 2013, , e50242.	0.2	11
88	Proteomic Profiling of Sugar Beet (<i>Beta vulgaris</i>) Leaves during Rhizomania Compatible Interactions. <i>Proteomes</i> , 2014, 2, 208-223.	1.7	11
89	Non-targeted urine metabolomics and associations with prevalent and incident type 2 diabetes. <i>Scientific Reports</i> , 2020, 10, 16474.	1.6	11
90	Non-invasive Drug Monitoring of β -Lactam Antibiotics Using Sweat Analysis—A Pilot Study. <i>Frontiers in Medicine</i> , 2020, 7, 476.	1.2	11

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91	Proteomics: a review and an example using the reticulocyte membrane proteome. <i>Veterinary Clinical Pathology</i> , 2007, 36, 13-24.	0.3	10
92	The impact of extraction protocol on the chemical profile of cannabis extracts from a single cultivar. <i>Scientific Reports</i> , 2021, 11, 21801.	1.6	10
93	American <sc>I</sc>ndia <sc>P</sc>ale <sc>A</sc>le matrix rich in xanthohumol is potent in suppressing proliferation and elevating apoptosis of human colon cancer cells. <i>International Journal of Food Science and Technology</i> , 2014, 49, 2464-2471.	1.3	9
94	Differential abundance of proteins in response to Beet necrotic yellow vein virus during compatible and incompatible interactions in sugar beet containing Rz1 or Rz2. <i>Physiological and Molecular Plant Pathology</i> , 2015, 91, 96-105.	1.3	9
95	Quantification of ractopamine residues on and in beef digestive tract tissues. <i>Journal of Animal Science</i> , 2019, 97, 4193-4198.	0.2	9
96	Evidence of Spontaneous Multilayer Formation for Disperse Red-1 at a Fused-Silica/2-Propanol Interface. <i>Langmuir</i> , 2001, 17, 7079-7084.	1.6	8
97	Evaluation of ambient mass spectrometry tools for assessing inherent postharvest pepper quality. <i>Horticulture Research</i> , 2021, 8, 160.	2.9	7
98	New nuclear partners for nucleosome assembly protein 1: unexpected associations. <i>Biochemistry and Cell Biology</i> , 2010, 88, 927-936.	0.9	6
99	Proteome Characterization of Leaves in Common Bean. <i>Proteomes</i> , 2015, 3, 236-248.	1.7	6
100	Proteomic profiling of the mitochondrial inner membrane of rat renal proximal convoluted tubules. <i>Proteomics</i> , 2013, 13, 2495-2499.	1.3	5
101	The effects of neurectomy and hibernation on bone properties and the endocannabinoid system in marmots (<i>Marmota flaviventris</i>). <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2020, 241, 110621.	0.8	5
102	The Detection of Vancomycin in Sweat: A Next-Generation Digital Surrogate Marker for Antibiotic Tissue Penetration: A Pilot Study. <i>Digital Biomarkers</i> , 2021, 5, 24-28.	2.2	5
103	Peptidomics of an industrial gluten-free barley malt beer and its non-gluten-free counterpart: Characterisation and immunogenicity. <i>Food Chemistry</i> , 2021, 355, 129597.	4.2	5
104	Effects of differing withdrawal times from ractopamine hydrochloride on residue concentrations of beef muscle, adipose tissue, rendered tallow, and large intestine. <i>PLoS ONE</i> , 2020, 15, e0242673.	1.1	5
105	Importance of manual validation for the identification of phosphopeptides using a linear ion trap mass spectrometer. <i>Journal of Biomolecular Techniques</i> , 2011, 22, 10-20.	0.8	5
106	Mass Spectrometry Contamination from Tinuvin 770, a Common Additive in Laboratory Plastics. <i>Journal of Biomolecular Techniques</i> , 2013, 24, jbt.13-2402-004.	0.8	4
107	Proteomic Characterization of Equine Cerebrospinal Fluid. <i>Journal of Equine Veterinary Science</i> , 2014, 34, 451-458.	0.4	4
108	Ion-neutral Clustering of Bile Acids in Electrospray Ionization Across UPLC Flow Regimes. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 651-662.	1.2	4

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109	Feature selection and causal analysis for microbiome studies in the presence of confounding using standardization. <i>BMC Bioinformatics</i> , 2021, 22, 362.	1.2	3
110	Biological ice nuclei and the impact of rain on ice nuclei populations. , 2013, , .		2
111	Tandem mass tagged dataset used to characterize muscle-specific proteome changes in beef during early postmortem period. <i>Data in Brief</i> , 2020, 32, 106064.	0.5	2
112	Concentrating human milk: an innovative point-of-care device designed to increase human milk feeding options for preterm infants. <i>Journal of Perinatology</i> , 2021, 41, 582-589.	0.9	2
113	Associations of Body Mass Index and Obesity-Related Genetic Variants with Serum Metabolites. <i>Current Metabolomics</i> , 2014, 2, 27-36.	0.5	1
114	Influence of Biological and Technical Covariates on Non-targeted Metabolite Profiling in a Large-scale Epidemiological Study. <i>Current Metabolomics</i> , 2013, 1, 220-226.	0.5	0
115	Substrate-specific impairment of respiratory function in Taz -deficient cardiac mitochondria: Potential role of CoA deficiency. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, e75.	0.5	0
116	Effects of dietary tallow containing trace amounts of ractopamine on beef cattle performance and tissue residue levels and the effect of withdrawal time on ractopamine residues in the gastrointestinal-tract digesta. <i>Applied Animal Science</i> , 2021, 37, 460-469.	0.4	0
117	Metabolomics Using Dried Blood Spot Samples: A Household Air Pollution Study In Honduras. <i>ISEE Conference Abstracts</i> , 2015, 2015, 1781.	0.0	0
118	Household air pollution and metabolomics among Honduran women. <i>ISEE Conference Abstracts</i> , 2016, 2016, .	0.0	0
119	Non-Targeted Metabolite Profiling of Dried Blood Spots in a Field-Based Epidemiologic Study of Household Air Pollution. <i>ISEE Conference Abstracts</i> , 2018, 2018, .	0.0	0
120	Title is missing!. , 2020, 15, e0242673.		0
121	Title is missing!. , 2020, 15, e0242673.		0
122	Title is missing!. , 2020, 15, e0242673.		0
123	Title is missing!. , 2020, 15, e0242673.		0
124	Increased signal-to-noise ratios within experimental field trials by regressing spatially distributed soil properties as principal components. <i>ELife</i> , 0, 11, .	2.8	0