

Corey D Broeckling

List of Publications by Year in descending order

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122
papers

5,630
citations

101543

36
h-index

88630

70
g-index

128
all docs

128
docs citations

128
times ranked

9070
citing authors

#	ARTICLE	IF	CITATIONS
1	Root Exudates Regulate Soil Fungal Community Composition and Diversity. <i>Applied and Environmental Microbiology</i> , 2008, 74, 738-744.	3.1	659
2	Overexpression of WXP1, a putative <i>Medicago truncatula</i> AP2 domain-containing transcription factor gene, increases cuticular wax accumulation and enhances drought tolerance in transgenic alfalfa (<i>Medicago sativa</i>). <i>Plant Journal</i> , 2005, 42, 689-707.	5.7	388
3	Metabolic profiling of <i>Medicago truncatula</i> cell cultures reveals the effects of biotic and abiotic elicitors on metabolism. <i>Journal of Experimental Botany</i> , 2005, 56, 323-336.	4.8	347
4	MET-IDEA: A Data Extraction Tool for Mass Spectrometry-Based Metabolomics. <i>Analytical Chemistry</i> , 2006, 78, 4334-4341.	6.5	249
5	Large-scale Metabolomic Profiling Identifies Novel Biomarkers for Incident Coronary Heart Disease. <i>PLoS Genetics</i> , 2014, 10, e1004801.	3.5	225
6	RAMClust: A Novel Feature Clustering Method Enables Spectral-Matching-Based Annotation for Metabolomics Data. <i>Analytical Chemistry</i> , 2014, 86, 6812-6817.	6.5	219
7	Heterologous expression of two <i>Medicago truncatula</i> putative ERF transcription factor genes, WXP1 and WXP2, in <i>Arabidopsis</i> led to increased leaf wax accumulation and improved drought tolerance, but differential response in freezing tolerance. <i>Plant Molecular Biology</i> , 2007, 64, 265-278.	3.9	162
8	Altered Profile of Secondary Metabolites in the Root Exudates of <i>Arabidopsis</i> ATP-Binding Cassette Transporter Mutants. <i>Plant Physiology</i> , 2008, 146, 323-324.	4.8	158
9	Transcriptome analysis of <i>Arabidopsis</i> roots treated with signaling compounds: a focus on signal transduction, metabolic regulation and secretion. <i>New Phytologist</i> , 2008, 179, 209-223.	7.3	112
10	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.	5.2	109
11	Plant neighbor identity influences plant biochemistry and physiology related to defense. <i>BMC Plant Biology</i> , 2010, 10, 115.	3.6	107
12	Resource heterogeneity structures aquatic bacterial communities. <i>ISME Journal</i> , 2019, 13, 2183-2195.	9.8	93
13	Influence of malt source on beer chemistry, flavor, and flavor stability. <i>Food Research International</i> , 2018, 113, 487-504.	6.2	89
14	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.	2.2	80
15	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.	3.6	80
16	Dietary supplementation with rice bran or navy bean alters gut bacterial metabolism in colorectal cancer survivors. <i>Molecular Nutrition and Food Research</i> , 2017, 61, 1500905.	3.3	80
17	Enabling Efficient and Confident Annotation of LC-MS Metabolomics Data through MS1 Spectrum and Time Prediction. <i>Analytical Chemistry</i> , 2016, 88, 9226-9234.	6.5	77
18	Pilot Dietary Intervention with Heat-Stabilized Rice Bran Modulates Stool Microbiota and Metabolites in Healthy Adults. <i>Nutrients</i> , 2015, 7, 1282-1300.	4.1	75

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19	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.	6.3	74
20	Effect of transporters on the secretion of phytochemicals by the roots of <i>Arabidopsis thaliana</i> . <i>Planta</i> , 2006, 225, 301-310.	3.2	68
21	Amino acid profiling in plant cell cultures: An inter-laboratory comparison of CE-MS and GC-MS. <i>Electrophoresis</i> , 2007, 28, 1371-1379.	2.4	66
22	The metaRbolomics Toolbox in Bioconductor and beyond. <i>Metabolites</i> , 2019, 9, 200.	2.9	64
23	The metabolic fingerprint of p,p'-DDE and HCB exposure in humans. <i>Environment International</i> , 2016, 88, 60-66.	10.0	61
24	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.	3.3	61
25	Serum Metabolomics Reveals Higher Levels of Polyunsaturated Fatty Acids in Lepromatous Leprosy: Potential Markers for Susceptibility and Pathogenesis. <i>PLoS Neglected Tropical Diseases</i> , 2011, 5, e1303.	3.0	59
26	A Comparative Study of Serum Biochemistry, Metabolome and Microbiome Parameters of Clinically Healthy, Normal Weight, Overweight, and Obese Companion Dogs. <i>Topics in Companion Animal Medicine</i> , 2018, 33, 126-135.	0.9	58
27	Identification of metabolic profiles associated with human exposure to perfluoroalkyl substances. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2019, 29, 196-205.	3.9	55
28	Evaluating plant immunity using mass spectrometry-based metabolomics workflows. <i>Frontiers in Plant Science</i> , 2014, 5, 291.	3.6	54
29	Antibacterial activity and phytochemical profile of fermented <i>Camellia sinensis</i> (fuzhuan tea). <i>Food Research International</i> , 2013, 53, 945-949.	6.2	51
30	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.	8.3	50
31	Impact of inoculum sources on biotransformation of pharmaceuticals and personal care products. <i>Water Research</i> , 2017, 125, 227-236.	11.3	48
32	Retention projection enables accurate calculation of liquid chromatographic retention times across labs and methods. <i>Journal of Chromatography A</i> , 2015, 1412, 43-51.	3.7	47
33	Glucose challenge metabolomics implicates medium-chain acylcarnitines in insulin resistance. <i>Scientific Reports</i> , 2018, 8, 8691.	3.3	47
34	Non-Targeted Metabolomics Reveals Sorghum Rhizosphere-Associated Exudates are Influenced by the Belowground Interaction of Substrate and Sorghum Genotype. <i>International Journal of Molecular Sciences</i> , 2019, 20, 431.	4.1	43
35	A Genome-Wide Assessment of Variability in Human Serum Metabolism. <i>Human Mutation</i> , 2013, 34, 515-524.	2.5	42
36	Phytotoxic Catechin Leached by Seeds of the Tropical Weed <i>Sesbania virgata</i> . <i>Journal of Chemical Ecology</i> , 2008, 34, 681-687.	1.8	41

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37	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.	3.7	39
38	The effector AvrRxo1 phosphorylates NAD in planta. <i>PLoS Pathogens</i> , 2017, 13, e1006442.	4.7	37
39	GC-MS Metabolomics to Evaluate the Composition of Plant Cuticular Waxes for Four Triticum aestivum Cultivars. <i>International Journal of Molecular Sciences</i> , 2018, 19, 249.	4.1	37
40	Phytotoxic polyacetylenes from roots of Russian knapweed (<i>Acroptilon repens</i> (L.) DC.). <i>Phytochemistry</i> , 2008, 69, 2572-2578.	2.9	36
41	Root Secretion of Phytochemicals in Arabidopsis Is Predominantly Not Influenced by Diurnal Rhythms. <i>Molecular Plant</i> , 2010, 3, 491-498.	8.3	36
42	Assigning precursor-product ion relationships in indiscriminant MS/MS data from non-targeted metabolite profiling studies. <i>Metabolomics</i> , 2013, 9, 33-43.	3.0	35
43	Comprehensive Tandem-Mass-Spectrometry Coverage of Complex Samples Enabled by Data-Set-Dependent Acquisition. <i>Analytical Chemistry</i> , 2018, 90, 8020-8027.	6.5	35
44	Metabolomics Data Analysis, Visualization, and Integration. , 2005, 406, 409-436.		33
45	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.	2.7	32
46	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.	8.2	32
47	Large-scale non-targeted metabolomic profiling in three human population-based studies. <i>Metabolomics</i> , 2016, 12, 1.	3.0	29
48	White Kidney Bean (<i>Phaseolus Vulgaris</i> L.) Consumption Reduces Fat Accumulation in a Polygenic Mouse Model of Obesity. <i>Nutrients</i> , 2019, 11, 2780.	4.1	29
49	Metabolic engineering of Arabidopsis for butanetriol production using bacterial genes. <i>Metabolic Engineering</i> , 2013, 20, 109-120.	7.0	28
50	Tryptophan catabolism in acute exacerbations of chronic obstructive pulmonary disease. <i>International Journal of COPD</i> , 2016, Volume 11, 2435-2446.	2.3	27
51	Advances in Nutritional Metabolomics. <i>Current Metabolomics</i> , 2013, 1, 109-120.	0.5	26
52	Model of Chronic Equine Endometritis Involving a <i>Pseudomonas aeruginosa</i> Biofilm. <i>Infection and Immunity</i> , 2017, 85, .	2.2	26
53	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.	3.7	26
54	Comparison between a native and exotic adelgid as hosts for <i>Laricobius rubidus</i> (Coleoptera: Tj ETQq0 0 0 rgBT /Overclock 10 Jf 50 62 Tc	1.3	25

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55	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.	2.3	24
56	Roles of rhizobial symbionts in selenium hyperaccumulation in <i>Astragalus</i> (Fabaceae). <i>American Journal of Botany</i> , 2014, 101, 1895-1905.	1.7	23
57	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.	3.1	23
58	Application of Predicted Collisional Cross Section to Metabolome Databases to Probabilistically Describe the Current and Future Ion Mobility Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 661-669.	2.8	23
59	Volatile emissions of eastern hemlock, <i>Tsuga canadensis</i> , and the influence of hemlock woolly adelgid. <i>Phytochemistry</i> , 2003, 62, 175-180.	2.9	22
60	Pregnancy-induced changes in metabolome and proteome in ovine uterine flushings. <i>Biology of Reproduction</i> , 2017, 97, 273-287.	2.7	22
61	Data Processing for GC-MS- and LC-MS-Based Untargeted Metabolomics. <i>Methods in Molecular Biology</i> , 2019, 1978, 287-299.	0.9	22
62	Unique & Francisella Phosphatidylethanolamine Acts as a Potent Anti-Inflammatory Lipid. <i>Journal of Innate Immunity</i> , 2018, 10, 291-305.	3.8	21
63	Direct and Osmolarity-Dependent Effects of Glycine on Preimplantation Bovine Embryos. <i>PLoS ONE</i> , 2016, 11, e0159581.	2.5	21
64	Phytotoxic Allelochemicals From Roots and Root Exudates of Leafy Spurge (<i>Euphorbia esula</i> L.). <i>Plant Signaling and Behavior</i> , 2006, 1, 323-327.	2.4	20
65	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.	3.5	20
66	Multi-omics prediction of oat agronomic and seed nutritional traits across environments and in distantly related populations. <i>Theoretical and Applied Genetics</i> , 2021, 134, 4043-4054.	3.6	20
67	Retention Projection Enables Reliable Use of Shared Gas Chromatographic Retention Data Across Laboratories, Instruments, and Methods. <i>Analytical Chemistry</i> , 2013, 85, 11650-11657.	6.5	19
68	Metabolomics of the tick-Borrelia interaction during the nymphal tick blood meal. <i>Scientific Reports</i> , 2017, 7, 44394.	3.3	19
69	Stacked Injections of Biphasic Extractions for Improved Metabolomic Coverage and Sample Throughput. <i>Analytical Chemistry</i> , 2018, 90, 1147-1153.	6.5	18
70	Assessing the Chemistry and Bioavailability of Dissolved Organic Matter From Glaciers and Rock Glaciers. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 1988-2004.	3.0	18
71	A comprehensive time-course metabolite profiling of the model cyanobacterium <i>Synechocystis</i> sp. PCC 6803 under diurnal light:dark cycles. <i>Plant Journal</i> , 2019, 99, 379-388.	5.7	18
72	Antennal Morphology of Two Specialist Predators of Hemlock Woolly Adelgid, <i>Adelges tsugae</i> Annand (Homoptera: Adelgidae). <i>Annals of the Entomological Society of America</i> , 2003, 96, 153-160.	2.5	17

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73	A first step in understanding an invasive weed through its genes: an EST analysis of invasive <i>Centaurea maculosa</i> . <i>BMC Plant Biology</i> , 2007, 7, 25.	3.6	17
74	Production of Phloroglucinol, a Platform Chemical, in <i>Arabidopsis</i> using a Bacterial Gene. <i>Scientific Reports</i> , 2016, 6, 38483.	3.3	17
75	Leveraging Non-Targeted Metabolite Profiling via Statistical Genomics. <i>PLoS ONE</i> , 2013, 8, e57667.	2.5	17
76	Impact of primary carbon sources on microbiome shaping and biotransformation of pharmaceuticals and personal care products. <i>Biodegradation</i> , 2019, 30, 127-145.	3.0	16
77	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.	8.2	15
78	Equine maternal aging affects oocyte lipid content, metabolic function and developmental potential. <i>Reproduction</i> , 2021, 161, 399-409.	2.6	15
79	A selective, sensitive, and rapid in-field assay for soil catechin, an allelochemical of <i>Centaurea maculosa</i> . <i>Soil Biology and Biochemistry</i> , 2008, 40, 1189-1196.	8.8	14
80	Metabolomic Investigation of Tenderness and Aging Response in Beef Longissimus Steaks. <i>Meat and Muscle Biology</i> , 2019, 3, .	1.9	14
81	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.	1.6	14
82	Consumption of Cooked Navy Bean Powders Modulate the Canine Fecal and Urine Metabolome. <i>Current Metabolomics</i> , 2015, 3, 90-101.	0.5	14
83	Analysis of the metabolome of <i>Anopheles gambiae</i> mosquito after exposure to <i>Mycobacterium ulcerans</i> . <i>Scientific Reports</i> , 2015, 5, 9242.	3.3	13
84	Impact of Wearing and Washing/Drying of Permethrin-Treated Clothing on Their Contact Irritancy and Toxicity for Nymphal <i>Ixodes scapularis</i> (Acari: Ixodidae) Ticks. <i>Journal of Medical Entomology</i> , 2019, 56, 199-214.	1.8	13
85	A novel culture medium with reduced nutrient concentrations supports the development and viability of mouse embryos. <i>Scientific Reports</i> , 2020, 10, 9263.	3.3	13
86	Differential Stem Proteomics and Metabolomics Profiles for Four Wheat Cultivars in Response to the Insect Pest Wheat Stem Sawfly. <i>Journal of Proteome Research</i> , 2020, 19, 1037-1051.	3.7	13
87	Multicohort Metabolomics Analysis Discloses 9- Δ Decenoylcarnitine to Be Associated With Incident Atrial Fibrillation. <i>Journal of the American Heart Association</i> , 2021, 10, e017579.	3.7	12
88	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.	0.3	11
89	Non-targeted urine metabolomics and associations with prevalent and incident type 2 diabetes. <i>Scientific Reports</i> , 2020, 10, 16474.	3.3	11
90	Non-invasive Drug Monitoring of β -Lactam Antibiotics Using Sweat Analysisâ€”A Pilot Study. <i>Frontiers in Medicine</i> , 2020, 7, 476.	2.6	11

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91	Assessing Drought and Heat Stress-Induced Changes in the Cotton Leaf Metabolome and Their Relationship With Hyperspectral Reflectance. <i>Frontiers in Plant Science</i> , 2021, 12, 751868.	3.6	11
92	GreenCut protein <i>CPLD49</i> of <i>Chlamydomonas reinhardtii</i> associates with thylakoid membranes and is required for cytochrome <i>b₆f</i> complex accumulation. <i>Plant Journal</i> , 2018, 94, 1023-1037.	5.7	10
93	American <i>Indioplexale</i> 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.	2.7	9
94	Metabolic compounds within the porcine uterine environment are unique to the type of conceptus present during the early stages of blastocyst elongation. <i>Molecular Reproduction and Development</i> , 2020, 87, 174-190.	2.0	9
95	Genetic analysis of potato tuber metabolite composition: Genome-wide association studies applied to a nontargeted metabolome. <i>Crop Science</i> , 2021, 61, 591-603.	1.8	9
96	Selection for seed size has uneven effects on specialized metabolite abundance in oat (<i>Avena</i>). <i>Overlook</i> 10 Tf 50	1.8	9
97	Metabolome profiling to understand the defense response of sugar beet (<i>Beta vulgaris</i>) to <i>Rhizoctonia solani</i> AG 2-2 IIB. <i>Physiological and Molecular Plant Pathology</i> , 2016, 94, 108-117.	2.5	7
98	Employing Two-stage Derivatisation and GC-MS to Assay for Cathine and Related Stimulant Alkaloids across the Celastraceae. <i>Phytochemical Analysis</i> , 2017, 28, 257-266.	2.4	7
99	<i>Candida krusei</i> form mycelia along agar surfaces towards each other and other <i>Candida</i> species. <i>BMC Microbiology</i> , 2017, 17, 60.	3.3	7
100	A carnivore embryo's perspective on essential amino acids and ammonium in culture medium: effects on the development of feline embryos. <i>Biology of Reproduction</i> , 2018, 99, 1070-1081.	2.7	7
101	Quantitative Analysis of Ethyl Carbamate in Distillers Grains Co-products and Bovine Plasma by Gas Chromatography-Mass Spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 10984-10991.	5.2	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.	4.4	5
103	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.	1.5	5
104	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.	2.8	4
105	Brightly coloured tissues in limid bivalves chemically deter predators. <i>Royal Society Open Science</i> , 2019, 6, 191298.	2.4	4
106	Metabolic disturbances in sugar beet (<i>Beta vulgaris</i>) during infection with Beet necrotic yellow vein virus. <i>Physiological and Molecular Plant Pathology</i> , 2020, 112, 101520.	2.5	4
107	Studying Charge Migration Fragmentation of Sodiated Precursor Ions in Collision-Induced Dissociation at the Library Scale. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 180-186.	2.8	4
108	Non-targeted Plasma Metabolome of Early and Late Lactation Gilts. <i>Frontiers in Molecular Biosciences</i> , 2016, 3, 77.	3.5	3

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109	Biological variation of major gut-derived uremic toxins in the serum of healthy adult cats. <i>Journal of Veterinary Internal Medicine</i> , 2021, 35, 902-911.	1.6	3
110	Chromatographic Methods to Evaluate Nutritional Quality in Oat. <i>Methods in Molecular Biology</i> , 2017, 1536, 115-125.	0.9	3
111	Metabolomic Profiles of Multidrug-Resistant <i>Salmonella Typhimurium</i> from Humans, Bovine, and Porcine Hosts. <i>Animals</i> , 2022, 12, 1518.	2.3	3
112	Metabolites and microbial composition of stool of women with fecal incontinence: Study design and methods. <i>Neurourology and Urodynamics</i> , 2018, 37, 634-641.	1.5	2
113	Fatty acids present in commercial albumin preparations differentially affect development of murine embryos before and during implantation. <i>F&S Science</i> , 2021, 2, 50-58.	0.9	2
114	Non-targeted metabolomics of cooked cowpea (<i>Vigna unguiculata</i>) and pigeon pea (<i>Cajanus cajan</i>) from Ghana using two distinct and complementary analytical platforms. <i>Food Chemistry Molecular Sciences</i> , 2022, 4, 100087.	2.1	2
115	<i>Penicillium raperi</i> , a species isolated from Colorado cropping soils, is a potential biological control agent that produces multiple metabolites and is antagonistic against postharvest phytopathogens. <i>Mycological Progress</i> , 2022, 21, .	1.4	2
116	Associations of Body Mass Index and Obesity-Related Genetic Variants with Serum Metabolites. <i>Current Metabolomics</i> , 2014, 2, 27-36.	0.5	1
117	Metabolomics for Rice Grain Quality. , 2020, , 495-531.		1
118	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
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	62 Sequential nutrient restriction and provision during bovine in vitro embryo culture differentially affect blastocyst development and quality with oocytes from varied sources. <i>Reproduction, Fertility and Development</i> , 2019, 31, 156.	0.4	0
121	Some assembly required. <i>Nature Methods</i> , 0, , .	19.0	0
122	Ecosystem metabolomics of dissolved organic matter from arctic soil pore water across seasonal transitions. , 2022, , 91-106.		0