Carolyn M Slupsky

List of Publications by Year
in descending order

121 papers	5,741 citations	101384 36 h-index	82410 72 g-index
124 all docs	124 docs citations	124 times ranked	8148 citing authors

#	Article	IF	Citations
1	Targeted Profiling:Â Quantitative Analysis of1H NMR Metabolomics Data. Analytical Chemistry, 2006, 78, 4430-4442.	3.2	844
2	Investigations of the Effects of Gender, Diurnal Variation, and Age in Human Urinary Metabolomic Profiles. Analytical Chemistry, 2007, 79, 6995-7004.	3.2	361
3	Analysis of Metabolomic Data Using Support Vector Machines. Analytical Chemistry, 2008, 80, 7562-7570.	3.2	318
4	Urine Metabolite Analysis Offers Potential Early Diagnosis of Ovarian and Breast Cancers. Clinical Cancer Research, 2010, 16, 5835-5841.	3.2	217
5	The Human Milk Metabolome Reveals Diverse Oligosaccharide Profiles. Journal of Nutrition, 2013, 143, 1709-1718.	1.3	212
6	Compositional Dynamics of the Milk Fat Globule and Its Role in Infant Development. Frontiers in Pediatrics, 2018, 6, 313.	0.9	162
7	DNA Binding: a Novel Function of Pseudomonas aeruginosa Type IV Pili. Journal of Bacteriology, 2005, 187, 1455-1464.	1.0	128
8	Pilot study of probiotic/colostrum supplementation on gut function in children with autism and gastrointestinal symptoms. PLoS ONE, 2019, 14, e0210064.	1.1	126
9	Human Milk and Allergic Diseases: An Unsolved Puzzle. Nutrients, 2017, 9, 894.	1.7	111
10	Urinary NMR metabolomic profiles discriminate inflammatory bowel disease from healthy. Journal of Crohn's and Colitis, 2013, 7, e42-e48.	0.6	103
11	Structure of a Pilin Monomer fromPseudomonas aeruginosa. Journal of Biological Chemistry, 2001, 276, 24186-24193.	1.6	101
12	Dietary pyrroloquinoline quinone (PQQ) alters indicators of inflammation and mitochondrial-related metabolism in human subjects. Journal of Nutritional Biochemistry, 2013, 24, 2076-2084.	1.9	99
13	Streptococcus pneumoniae and Staphylococcus aureus Pneumonia Induce Distinct Metabolic Responses. Journal of Proteome Research, 2009, 8, 3029-3036.	1.8	95
14	Pneumococcal Pneumonia: Potential for Diagnosis through a Urinary Metabolic Profile. Journal of Proteome Research, 2009, 8, 5550-5558.	1.8	93
15	Metabolomics and detection of colorectal cancer in humans: a systematic review. Future Oncology, 2010, 6, 1395-1406.	1.1	90
16	Early Diet Impacts Infant Rhesus Gut Microbiome, Immunity, and Metabolism. Journal of Proteome Research, 2013, 12, 2833-2845.	1.8	90
17	Lactobacillus plantarum bacteriocin is associated with intestinal and systemic improvements in diet-induced obese mice and maintains epithelial barrier integrity in vitro. Gut Microbes, 2019, 10, 382-397.	4.3	90
18	Metabolomic Analysis of Citrus Infection by â€˜Candidatus Liberibacterâ€™ Reveals Insight into Pathogenicity. Journal of Proteome Research, 2012, 11, 4223-4230.	1.8	89

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19	Infant Maturity at Birth Reveals Minor Differences in the Maternal Milk Metabolome in the First Month of Lactation. Journal of Nutrition, 2015, 145, 1698-1708.	1.3	88
20	Microbiota, metabolome, and immune alterations in obese mice fed a highâ€fat diet containing type 2 resistant starch. Molecular Nutrition and Food Research, 2017, 61, 1700184.	1.5	81
21	Metabolomics analysis of children with autism, idiopathic-developmental delays, and Down syndrome. Translational Psychiatry, 2019, 9, 243.	2.4	81
22	Fecal microbiome and metabolome of infants fed bovine MFGM supplemented formula or standard formula with breast-fed infants as reference: a randomized controlled trial. Scientific Reports, 2019, 9, 11589.	1.6	72
23	Urinary Metabolic Profiles of Inflammatory Bowel Disease in Interleukin-10 Gene-Deficient Mice. Analytical Chemistry, 2008, 80, 5524-5531.	3.2	70
24	Worldwide Variation in Human Milk Metabolome: Indicators of Breast Physiology and Maternal Lifestyle?. Nutrients, 2018, 10, 1151.	1.7	66
25	Metabolite Signature of Candidatus Liberibacter asiaticus Infection in Two Citrus Varieties. Journal of Agricultural and Food Chemistry, 2014, 62, 6585-6591.	2.4	65
26	Metabolic Fingerprint of Dimethyl Sulfone (DMSO₂) in Microbialâ€“Mammalian Co-metabolism. Journal of Proteome Research, 2014, 13, 5281-5292.	1.8	64
27	Diversity in Structure and Function of the Ets Family PNT Domains. Journal of Molecular Biology, 2004, 342, 1249-1264.	2.0	63
28	Smartnotebook: a semi-automated approach to protein sequential NMR resonance assignments. Journal of Biomolecular NMR, 2003, 27, 313-321.	1.6	56
29	Metabolomic Phenotyping Validates the Infant Rhesus Monkey as a Model of Human Infant Metabolism. Journal of Pediatric Gastroenterology and Nutrition, 2013, 56, 355-363.	0.9	54
30	Analytical metabolomics: nutritional opportunities for personalized health. Journal of Nutritional Biochemistry, 2011, 22, 995-1002.	1.9	51
31	Metabolomics of Cerebrospinal Fluid from Humans Treated for Rabies. Journal of Proteome Research, 2013, 12, 481-490.	1.8	48
32	Postprandial metabolic response of breast-fed infants and infants fed lactose-free vs regular infant formula: A randomized controlled trial. Scientific Reports, 2017, 7, 3640.	1.6	48
33	Digestion of human milk fat in healthy infants. Nutrition Research, 2020, 83, 15-29.	1.3	46
34	NMR profiling clarifies the characterization of Finnish honeys of different botanical origins. Food Research International, 2016, 86, 83-92.	2.9	45
35	Metabolic phenotype of breast-fed infants, and infants fed standard formula or bovine MFGM supplemented formula: a randomized controlled trial. Scientific Reports, 2019, 9, 339.	1.6	45
36	A Comparison of Serum and Plasma Blood Collection Tubes for the Integration of Epidemiological and Metabolomics Data. Frontiers in Molecular Biosciences, 2021, 8, 682134.	1.6	42

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37	Cdc4p, a Contractile Ring Protein Essential for Cytokinesis inSchizosaccharomyces pombe, Interacts with a Phosphatidylinositol 4-Kinase. Journal of Biological Chemistry, 2001, 276, 5932-5942.	1.6	41
38	Emerging Aspects of Food and Nutrition on Gut Microbiota. Journal of Agricultural and Food Chemistry, 2013, 61, 9559-9574.	2.4	40
39	Solution secondary structure of calciumâ€saturated troponin C monomer determined by multidimensional heteronuclear NMR spectroscopy. Protein Science, 1995, 4, 1279-1290.	3.1	36
40	Structure of Type I Antifreeze Protein and Mutants in Supercooled Water. Biophysical Journal, 2001, 81, 1677-1683.	0.2	36
41	Freezing of a Fish Antifreeze Protein Results in Amyloid Fibril Formation. Biophysical Journal, 2003, 84, 552-557.	0.2	35
42	Metabolome and Microbiome Signatures in the Roots of Citrus Affected by Huanglongbing. Phytopathology, 2019, 109, 2022-2032.	1.1	35
43	NMR Studies of Active N-terminal Peptides of Stromal Cell-derived Factor-1. Journal of Biological Chemistry, 2000, 275, 26799-26805.	1.6	35
44	Elevation, Rootstock, and Soil Depth Affect the Nutritional Quality of Mandarin Oranges. Journal of Agricultural and Food Chemistry, 2011, 59, 2672-2679.	2.4	31
45	Longitudinal Transcriptomic, Proteomic, and Metabolomic Analyses of Citrus sinensis (L.) Osbeck Graft-Inoculated with â€œCandidatus Liberibacter asiaticusâ€• Journal of Proteome Research, 2020, 19, 719-732.	1.8	31
46	Long-term effects of western diet consumption in male and female mice. Scientific Reports, 2020, 10, 14686.	1.6	30
47	Supplementation of Lactobacillus plantarum Improves Markers of Metabolic Dysfunction Induced by a High Fat Diet. Journal of Proteome Research, 2018, 17, 2790-2802.	1.8	29
48	Lipid-bound Structure of an Apolipoprotein E-derived Peptide. Journal of Biological Chemistry, 2003, 278, 25998-26006.	1.6	28
49	Fertilisation and pesticides affect mandarin orange nutrient composition. Food Chemistry, 2012, 134, 1020-1024.	4.2	28
50	An NMR Metabolomic Study on the Effect of Alendronate in Ovariectomized Mice. PLoS ONE, 2014, 9, e106559.	1.1	28
51	Nopal feeding reduces adiposity, intestinal inflammation and shifts the cecal microbiota and metabolism in high-fat fed rats. PLoS ONE, 2017, 12, e0171672.	1.1	28
52	The HoxB1 hexapeptide is a prefolded domain: Implications for the Pbx1/Hox interaction. Protein Science, 2001, 10, 1244-1253.	3.1	26
53	Consumption of vitamin D2 enhanced mushrooms is associated with improved bone health. Journal of Nutritional Biochemistry, 2015, 26, 696-703.	1.9	25
54	Metabolomics reveals differences between three daidzein metabolizing phenotypes in adults with cardiometabolic risk factors. Molecular Nutrition and Food Research, 2017, 61, 1600132.	1.5	25

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55	Effect of bovine milk fat globule membranes as a complementary food on the serum metabolome and immune markers of 6-11-month-old Peruvian infants. Npj Science of Food, 2018, 2, 6.	2.5	25
56	Longitudinal Transcriptomic, Proteomic, and Metabolomic Analysis of Citrus limon Response to Graft Inoculation by Candidatus Liberibacter asiaticus. Journal of Proteome Research, 2020, 19, 2247-2263.	1.8	25
57	Effects of iron supplementation on growth, gut microbiota, metabolomics and cognitive development of rat pups. PLoS ONE, 2017, 12, e0179713.	1.1	25
58	NMR Structure and Dynamics of a Receptor-active Apolipoprotein E Peptide. Journal of Biological Chemistry, 2002, 277, 29172-29180.	1.6	24
59	Anemia in infancy is associated with alterations in systemic metabolism and microbial structure and function in a sex-specific manner: an observational study. American Journal of Clinical Nutrition, 2018, 108, 1238-1248.	2.2	24
60	The Role of Protein and Free Amino Acids on Intake, Metabolism, and Gut Microbiome: A Comparison Between Breast-Fed and Formula-Fed Rhesus Monkey Infants. Frontiers in Pediatrics, 2019, 7, 563.	0.9	24
61	Structure of Cdc4p, a Contractile Ring Protein Essential for Cytokinesis in Schizosaccharomyces pombe. Journal of Biological Chemistry, 2001, 276, 5943-5951.	1.6	23
62	Protein Tyrosine Nitration of Aldolase in Mast Cells: A Plausible Pathway in Nitric Oxide-Mediated Regulation of Mast Cell Function. Journal of Immunology, 2010, 185, 578-587.	0.4	21
63	Integrated Role of Bifidobacterium animalis subsp. lactis Supplementation in Gut Microbiota, Immunity, and Metabolism of Infant Rhesus Monkeys. MSystems, 2016, 1, .	1.7	21
64	NMR metabolomics of cerebrospinal fluid differentiates inflammatory diseases of the central nervous system. PLoS Neglected Tropical Diseases, 2018, 12, e0007045.	1.3	21
65	Milk Fat Globule Membrane as a Modulator of Infant Metabolism and Gut Microbiota: A Formula Supplement Narrowing the Metabolic Differences between Breastfed and Formulaâ€Fed Infants. Molecular Nutrition and Food Research, 2021, 65, e2000603.	1.5	21
66	Human milk metabolome is associated with symptoms of maternal psychological distress and milk cortisol. Food Chemistry, 2021, 356, 129628.	4.2	21
67	Beer metabolomics: molecular details of the brewing process and the differential effects of late and dry hopping on yeast purine metabolism. Journal of the Institute of Brewing, 2016, 122, 21-28.	0.8	20
68	Bifidobacterium grown on human milk oligosaccharides produce tryptophan metabolite Indoleâ€3â€lactic acid that significantly decreases inflammation in intestinal cells in vitro. FASEB Journal, 2018, 32, lb359.	0.2	20
69	A ¹H NMR study of a ternary peptide complex that mimics the interaction between troponin C and troponin I. Protein Science, 1992, 1, 1595-1603.	3.1	18
70	Bifidobacterium catabolism of human milk oligosaccharides overrides endogenous competitive exclusion driving colonization and protection. Gut Microbes, 2021, 13, 1986666.	4.3	18
71	Fucosylated Human Milk Oligosaccharide Foraging within the Species Bifidobacterium pseudocatenulatum Is Driven by Glycosyl Hydrolase Content and Specificity. Applied and Environmental Microbiology, 2022, 88, AEM0170721.	1.4	18
72	Metabolomic Profiles Are Gender, Disease and Time Specific in the Interleukin-10 Gene-Deficient Mouse Model of Inflammatory Bowel Disease. PLoS ONE, 2013, 8, e67654.	1.1	17

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73	Tolerability and safety of the intake of bovine milk oligosaccharides extracted from cheese whey in healthy human adults. Journal of Nutritional Science, 2017, 6, e6.	0.7	17
74	Untargeted metabolomic analysis of plasma from relapsing-remitting multiple sclerosis patients reveals changes in metabolites associated with structural changes in brain. Brain Research, 2020, 1732, 146589.	1.1	17
75	Human milk: From complex tailored nutrition to bioactive impact on child cognition and behavior. Critical Reviews in Food Science and Nutrition, 2023, 63, 7945-7982.	5.4	17
76	Unmasking Ligand Binding Motifs: Identification of a Chemokine Receptor Motif by NMR Studies of Antagonist Peptides. Journal of Molecular Biology, 2003, 327, 329-334.	2.0	16
77	Sucrose metabolism alters Lactobacillus plantarum survival and interactions with the microbiota in the digestive tract. FEMS Microbiology Ecology, 2018, 94, .	1.3	16
78	NMR-based analysis of metabolites in urine provides rapid diagnosis and etiology of pneumonia. Biomarkers in Medicine, 2010, 4, 195-197.	0.6	14
79	Nuclear magnetic resonance-based analysis of urine for the rapid etiological diagnosis of pneumonia. Expert Opinion on Medical Diagnostics, 2011, 5, 63-73.	1.6	13
80	The Milk Metabolome of Non-secretor and Lewis Negative Mothers. Frontiers in Nutrition, 2020, 7, 576966.	1.6	13
81	Impact of grapevine red blotch disease on primary and secondary metabolites in â€˜Cabernet Sauvignonâ€™ grape tissues. Food Chemistry, 2021, 342, 128312.	4.2	12
82	Within-Person Variation in Nutrient Intakes across Populations and Settings: Implications for the Use of External Estimates in Modeling Usual Nutrient Intake Distributions. Advances in Nutrition, 2021, 12, 429-451.	2.9	12
83	Lithium alters regional rat brain myo-inositol at 2 and 4 weeks: an ex-vivo magnetic resonance spectroscopy study at 18.8â€‰T. NeuroReport, 2006, 17, 1323-1326.	0.6	11
84	1H NMR analysis of Citrus macrophylla subjected to Asian citrus psyllid (Diaphorina citri Kuwayama) feeding. Arthropod-Plant Interactions, 2017, 11, 901-909.	0.5	11
85	Evaluation of Californiaâ€Grown Blood and Cara Cara Oranges Through Consumer Testing, Descriptive Analysis, and Targeted Chemical Profiling. Journal of Food Science, 2019, 84, 3246-3263.	1.5	11
86	Association Between Plasma Metabolites and Psychometric Scores Among Children With Developmental Disabilities: Investigating Sex-Differences. Frontiers in Psychiatry, 2020, 11, 579538.	1.3	11
87	Dynamics of Cryoprotectant Permeation in Porcine Heart Valve Leaflets. Cell Transplantation, 2003, 12, 123-128.	1.2	10
88	Development on Citrus medica infected with â€˜Candidatus Liberibacter asiaticusâ€™ has sex-specific and -nonspecific impacts on adult Diaphorina citri and its endosymbionts. PLoS ONE, 2020, 15, e0239771.	1.1	10
89	Optimization of a Method for the Simultaneous Extraction of Polar and Non-Polar Oxylipin Metabolites, DNA, RNA, Small RNA, and Protein from a Single Small Tissue Sample. Methods and Protocols, 2020, 3, 61.	0.9	9
90	Linoleic acid-derived 13-hydroxyoctadecadienoic acid is absorbed and incorporated into rat tissues. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2021, 1866, 158870.	1.2	9

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91	Multi-omics Comparison Reveals Landscape of Citrus limon and Citrus sinensis Response to â€˜Candidatus Liberibacter asiaticusâ€™. PhytoFrontiers, 2021, 1, 76-84.	0.8	8
92	Quantification of Water-Soluble Metabolites in Medicinal Mushrooms Using Proton NMR Spectroscopy. International Journal of Medicinal Mushrooms, 2016, 18, 413-424.	0.9	8
93	Gut Microbiome Alterations following Postnatal Iron Supplementation Depend on Iron Form and Persist into Adulthood. Nutrients, 2022, 14, 412.	1.7	8
94	Effect of a mutation on the structure and dynamics of an Î±-helical antifreeze protein in water and ice. Proteins: Structure, Function and Bioinformatics, 2006, 63, 603-610.	1.5	7
95	Probing nascent structures in peptides using natural abundance 13C NMR relaxation and reduced spectral density mapping. Proteins: Structure, Function and Bioinformatics, 2007, 67, 18-30.	1.5	7
96	Chemical and sensory analysis of commercial Navel oranges in California. Npj Science of Food, 2019, 3, 22.	2.5	7
97	Trunk Girdling Increased Stomatal Conductance in Cabernet Sauvignon Grapevines, Reduced Glutamine, and Increased Malvidin-3-Glucoside and Quercetin-3-Glucoside Concentrations in Skins and Pulp at Harvest. Frontiers in Plant Science, 2020, 11, 707.	1.7	7
98	Unlike lithium, anticonvulsants and antidepressants do not alter rat brain myo-inositol. NeuroReport, 2007, 18, 1595-1598.	0.6	6
99	Microbial structure and function in infant and juvenile rhesus macaques are primarily affected by age, not vaccination status. Scientific Reports, 2018, 8, 15867.	1.6	6
100	Impact of Glucosamine Supplementation on Gut Health. Nutrients, 2021, 13, 2180.	1.7	6
101	Metabolomic changes in severe acute malnutrition suggest hepatic oxidative stress: a secondary analysis. Nutrition Research, 2021, 91, 44-56.	1.3	6
102	The Impact of Diaphorina citri-Vectored â€˜Candidatus Liberibacter asiaticusâ€™ on Citrus Metabolism. Phytopathology, 2022, 112, 197-204.	1.1	6
103	Metabolic Phenotype and Microbiome of Infants Fed Formula Containing Lactobacillus paracasei Strain F-19. Frontiers in Pediatrics, 2022, 10, 856951.	0.9	4
104	Complete 1H, 13C and 15N backbone assignments for the hepatitis A virus 3C protease. Journal of Biomolecular NMR, 2001, 19, 187-188.	1.6	3
105	Acute dextro-amphetamine administration does not alter brain myo-inositol levels in humans and animals: MRS investigations at 3 and 18.8T. Neuroscience Research, 2008, 61, 351-359.	1.0	3
106	Comparison of preference clustering outcomes from replicated consumer testsâ€”A case study with mandarins. Journal of Sensory Studies, 2019, 34, e12537.	0.8	3
107	The application of metabolomics to ascertain the significance of prolonged maturation in the production of lager-style beers. Journal of the Institute of Brewing, 2019, 125, 242-249.	0.8	3
108	Effectiveness of vitamin D supplementation in Swedish children may be negatively impacted by BMI and serum fructose. Journal of Nutritional Biochemistry, 2020, 75, 108251.	1.9	3

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109	A Pilot Study Comparing the Effects of Consuming 100% Orange Juice or Sucrose-Sweetened Beverage on Risk Factors for Cardiometabolic Disease in Women. Nutrients, 2021, 13, 760.	1.7	3
110	Chemical, Sensory, and Consumer Evaluations of â€˜DaisySLâ€™ Mandarins Grafted onto Three Different Rootstocks. Hortscience: A Publication of the American Society for Hortcultural Science, 2019, 54, 1217-1222.	0.5	2
111	Effects of hypercapnia / ischemia and dissection on the rat brain metabolome. Neurochemistry International, 2022, , 105294.	1.9	2
112	Dextran Sulfate Sodium Inhibits Alanine Synthesis in Caco-2 Cells. International Journal of Molecular Sciences, 2011, 12, 2325-2335.	1.8	1
113	Effects of Two Citrus Tristeza Virus Isolates on Sweet Orange (Citrus sinensis) Propagated on a Citrus Tristeza Virus Tolerant Rootstock: A Metabolomics and Transcriptomics Approach. ACS Agricultural Science and Technology, 2021, 1, 407-416.	1.0	1
114	Brown Norway Chromosome 1 Congenic Reduces Symptoms of Renal Disease in Fatty Zucker Rats. PLoS ONE, 2014, 9, e87770.	1.1	1
115	Plasma Metabolome, PON1 Status, Environmental Exposures and Childhood Autism. FASEB Journal, 2017, 31, 655.1.	0.2	1
116	Composition of Mycelia and Basidiomata of the Culinary-Medicinal Golden Oyster Mushroom, Pleurotus citrinopileatus (Agaricomycetes) by Nuclear Magnetic Resonance Spectroscopy. International Journal of Medicinal Mushrooms, 2019, 21, 965-977.	0.9	1
117	Daidzein Metabolizing Phenotypes and Nutritional Metabolomics Profiling After a Soy Intervention: A Pilot Study. FASEB Journal, 2013, 27, 636.12.	0.2	0
118	Early Changes in Host Response to C. Liberibacter asiaticus Infection in Citrus. FASEB Journal, 2015, 29, 887.10.	0.2	0
119	Resistant Starch and Lactobacillus Feeding Improve Metabolic Functions in Dietâ€Induced Obese Mice. FASEB Journal, 2015, 29, 924.29.	0.2	0
120	NMRâ€Based Metabolomic Profiles of Mice Fed a High Fat Diet and Supplemented with Resistant Starch and/or Lactobacillus. FASEB Journal, 2015, 29, 924.4.	0.2	0
121	Eighty years of nutritional sciences, and counting. Nutrition Reviews, 2021, 80, 1-5.	2.6	0