

# Susan C J Sumner

## List of Publications by Year in descending order

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101  
papers

4,749  
citations

145106

33  
h-index

120465

65  
g-index

104  
all docs

104  
docs citations

104  
times ranked

8111  
citing authors

#	ARTICLE	IF	CITATIONS
1	Intravenous administration of three multiwalled carbon nanotubes to female rats and their effect on urinary biochemical profile. <i>Journal of Applied Toxicology</i> , 2022, 42, 409-422.	1.4	3
2	Chemical exposures assessed via silicone wristbands and endogenous plasma metabolomics during pregnancy. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2022, 32, 259-267.	1.8	5
3	Fecal metabolomics reveals products of dysregulated proteolysis and altered microbial metabolism in obesity-related osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2022, 30, 81-91.	0.6	25
4	Emerging technologies and their impact on regulatory science. <i>Experimental Biology and Medicine</i> , 2022, 247, 1-75.	1.1	22
5	Oral administration of TiO <sub>2</sub> nanoparticles during early life impacts cardiac and neurobehavioral performance and metabolite profile in an age- and sex-related manner. <i>Particle and Fibre Toxicology</i> , 2022, 19, 3.	2.8	5
6	Multi-Omics Analysis of Multiple Glucose-Sensing Receptor Systems in Yeast. <i>Biomolecules</i> , 2022, 12, 175.	1.8	9
7	Exploring the Contribution of (Poly)phenols to the Dietary Exposome Using High Resolution Mass Spectrometry Untargeted Metabolomics. <i>Molecular Nutrition and Food Research</i> , 2022, 66, e2100922.	1.5	9
8	Alterations in Microbial-Associated Fecal Metabolites in Relation to Arsenic Exposure Among Infants. <i>Exposure and Health</i> , 2022, 14, 941-949.	2.8	4
9	Comparison of Lysis and Detachment Sample Preparation Methods for Cultured Triple-Negative Breast Cancer Cells Using UHPLC-MS/MS-Based Metabolomics. <i>Metabolites</i> , 2022, 12, 168.	1.3	12
10	Dietary Supplements for Athletic Performance in Women: Beta-Alanine, Caffeine, and Nitrate. <i>International Journal of Sport Nutrition and Exercise Metabolism</i> , 2022, 32, 311-323.	1.0	8
11	Longitudinal associations of pre-pregnancy BMI and gestational weight gain with maternal urinary metabolites: an NYU CHES study. <i>International Journal of Obesity</i> , 2022, , .	1.6	1
12	Sex-Specific Metabolic Effects of Dietary Folate Withdrawal in Wild-Type and Aldh1l1 Knockout Mice. <i>Metabolites</i> , 2022, 12, 454.	1.3	7
13	Metabolomics reveals biomarkers of opioid use disorder. <i>Translational Psychiatry</i> , 2021, 11, 103.	2.4	13
14	Metabolic Effects of ALDH1L1 Knockout in Diethylnitrosamine-Induced Model of Liver Carcinogenesis. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
15	Untargeted Fecal Metabolomics to Investigate the Role of the Microbiome and Nutrients in Osteoarthritis. <i>Current Developments in Nutrition</i> , 2021, 5, 47.	0.1	0
16	Simulated Gastric Digestion and In Vivo Intestinal Uptake of Orally Administered CuO Nanoparticles and TiO <sub>2</sub> E171 in Male and Female Rat Pups. <i>Nanomaterials</i> , 2021, 11, 1487.	1.9	7
17	Effect of Folate Diet on Liver Metabolomics in Wild Type and Aldh1l1 Knockout Mice. <i>Current Developments in Nutrition</i> , 2021, 5, 949.	0.1	0
18	Multi-omics analysis of glucose-mediated signaling by a moonlighting G $\beta$ 2 protein Asc1/RACK1. <i>PLoS Genetics</i> , 2021, 17, e1009640.	1.5	13

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19	Associations between the gut microbiome and metabolome in early life. <i>BMC Microbiology</i> , 2021, 21, 238.	1.3	23
20	The Effects of Diet and Exercise on Endogenous Estrogens and Subsequent Breast Cancer Risk in Postmenopausal Women. <i>Frontiers in Endocrinology</i> , 2021, 12, 732255.	1.5	15
21	Association of Cesarean Delivery and Formula Supplementation with the Stool Metabolome of 6-Week-Old Infants. <i>Metabolites</i> , 2021, 11, 702.	1.3	5
22	Quantitative methods for metabolomic analyses evaluated in the Children's Health Exposure Analysis Resource (CHEAR). <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2020, 30, 16-27.	1.8	10
23	Maternal Liver Metabolic Response to Chronic Vitamin D Deficiency Is Determined by Mouse Strain Genetic Background. <i>Current Developments in Nutrition</i> , 2020, 4, nzaa106.	0.1	5
24	Plasma Untargeted Metabolomic Profile Associated with Vitamin A Status in Pregnant Women in Rural Bangladesh. <i>Current Developments in Nutrition</i> , 2020, 4, nzaa041_022.	0.1	1
25	Untargeted Metabolomics: Biochemical Perturbations in Golestan Cohort Study Opium Users Inform Intervention Strategies. <i>Frontiers in Nutrition</i> , 2020, 7, 584585.	1.6	18
26	Biodistribution, cardiac and neurobehavioral assessments, and neurotransmitter quantification in juvenile rats following oral administration of aluminum oxide nanoparticles. <i>Journal of Applied Toxicology</i> , 2020, 41, 1316-1329.	1.4	4
27	Investigation of twenty metal, metal oxide, and metal sulfide nanoparticles' impact on differentiated Caco-2 monolayer integrity. <i>NanoImpact</i> , 2020, 17, 100212.	2.4	13
28	Metabolomics Data Preprocessing Using ADAP and MZmine 2. <i>Methods in Molecular Biology</i> , 2020, 2104, 25-48.	0.4	35
29	Analysis of NMR Metabolomics Data. <i>Methods in Molecular Biology</i> , 2020, 2104, 61-97.	0.4	7
30	Existing antiviral options against SARS-CoV-2 replication in COVID-19 patients. <i>Future Microbiology</i> , 2020, 15, 1747-1758.	1.0	31
31	Multi-omics studies in cellular models of methylmalonic acidemia and propionic acidemia reveal dysregulation of serine metabolism. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2019, 1865, 165538.	1.8	17
32	Human PAH is characterized by a pattern of lipid-related insulin resistance. <i>JCI Insight</i> , 2019, 4, .	2.3	69
33	Metabolomics Analysis of Opiate Abusers from Golestan Cohort Study (GCS). <i>FASEB Journal</i> , 2019, 33, lb235.	0.2	0
34	Using Metabolomics to Investigate Biomarkers of Drug Addiction. <i>Trends in Molecular Medicine</i> , 2018, 24, 197-205.	3.5	38
35	EDC IMPACT: Molecular effects of developmental FM 550 exposure in Wistar rat placenta and fetal forebrain. <i>Endocrine Connections</i> , 2018, 7, 305-324.	0.8	41
36	Human microbiota, blood group antigens, and disease. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2018, 10, e1413.	6.6	27

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37	Effect of endotoxin and alum adjuvant vaccine on peanut allergy. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 141, 791-794.e8.	1.5	6
38	Correlated metabolomic, genomic, and histologic phenotypes in histologically normal breast tissue. <i>PLoS ONE</i> , 2018, 13, e0193792.	1.1	4
39	Stable Isotope-Resolved Metabolomic Differences between Hormone-Responsive and Triple-Negative Breast Cancer Cell Lines. <i>International Journal of Breast Cancer</i> , 2018, 2018, 1-12.	0.6	16
40	The Good, the Bad, and the Lethal: Gene Expression and Metabolomics Reveal Physiological Mechanisms Underlying Chronic Thermal Effects in Mayfly Larvae ( <i>Neocloeon triangulifer</i> ). <i>Frontiers in Ecology and Evolution</i> , 2018, 6, .	1.1	17
41	A Metabolomics Approach to Investigate Kukoamine Bâ€™A Potent Natural Product With Anti-diabetic Properties. <i>Frontiers in Pharmacology</i> , 2018, 9, 1575.	1.6	22
42	Metabolites as biomarkers of adverse reactions following vaccination: A pilot study using nuclear magnetic resonance metabolomics. <i>Vaccine</i> , 2017, 35, 1238-1245.	1.7	16
43	Pretreatment with indomethacin results in increased heat stroke severity during recovery in a rodent model of heat stroke. <i>Journal of Applied Physiology</i> , 2017, 123, 544-557.	1.2	14
44	Neonatal Metabolomic Profiles Related to Prenatal Arsenic Exposure. <i>Environmental Science &amp; Technology</i> , 2017, 51, 625-633.	4.6	30
45	One Step Forward for Reducing False Positive and False Negative Compound Identifications from Mass Spectrometry Metabolomics Data: New Algorithms for Constructing Extracted Ion Chromatograms and Detecting Chromatographic Peaks. <i>Analytical Chemistry</i> , 2017, 89, 8696-8703.	3.2	275
46	Detailed Investigation and Comparison of the XCMS and MZmine 2 Chromatogram Construction and Chromatographic Peak Detection Methods for Preprocessing Mass Spectrometry Metabolomics Data. <i>Analytical Chemistry</i> , 2017, 89, 8689-8695.	3.2	146
47	Metabolomics reveal physiological changes in mayfly larvae ( <i>Neocloeon triangulifer</i> ) at ecological upper thermal limits. <i>Journal of Insect Physiology</i> , 2017, 101, 107-112.	0.9	15
48	Preterm neonatal urinary renal developmental and acute kidney injury metabolomic profiling: an exploratory study. <i>Pediatric Nephrology</i> , 2017, 32, 151-161.	0.9	19
49	Disposition of intravenously or orally administered silver nanoparticles in pregnant rats and the effect on the biochemical profile in urine. <i>Journal of Applied Toxicology</i> , 2017, 37, 530-544.	1.4	37
50	A Microbiomic Analysis in African Americans with Colonic Lesions Reveals <i>Streptococcus</i> sp.VT162 as a Marker of Neoplastic Transformation. <i>Genes</i> , 2017, 8, 314.	1.0	16
51	Direct and transgenerational effects of low doses of perinatal di-(2-ethylhexyl) phthalate (DEHP) on social behaviors in mice. <i>PLoS ONE</i> , 2017, 12, e0171977.	1.1	68
52	Serum Metabolomic Profiles in Neonatal Mice following Oral Brominated Flame Retardant Exposures to Hexabromocyclododecane (HBCD) Alpha, Gamma, and Commercial Mixture. <i>Environmental Health Perspectives</i> , 2017, 125, 651-659.	2.8	26
53	Systems biology for organotypic cell cultures. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2017, 34, 301-310.	0.9	10
54	The Importance of the Biological Impact of Exposure to the Concept of the Exposome. <i>Environmental Health Perspectives</i> , 2016, 124, 1504-1510.	2.8	72

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55	Potential serum biomarkers from a metabolomics study of autism. <i>Journal of Psychiatry and Neuroscience</i> , 2016, 41, 27-37.	1.4	102
56	Blood type biochemistry and human disease. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2016, 8, 517-535.	6.6	92
57	Impact of a western diet on the ovarian and serum metabolome. <i>Maturitas</i> , 2016, 92, 134-142.	1.0	11
58	Microfluidics meets metabolomics to reveal the impact of <i>Campylobacter jejuni</i> infection on biochemical pathways. <i>Biomedical Microdevices</i> , 2016, 18, 51.	1.4	12
59	Metabolomics Analysis of Hormone-Responsive and Triple-Negative Breast Cancer Cell Responses to Paclitaxel Identify Key Metabolic Differences. <i>Journal of Proteome Research</i> , 2016, 15, 3225-3240.	1.8	43
60	Antibiotic-mediated gut microbiome perturbation accelerates development of type 1 diabetes in mice. <i>Nature Microbiology</i> , 2016, 1, 16140.	5.9	275
61	Metabolomics Workbench: An international repository for metabolomics data and metadata, metabolite standards, protocols, tutorials and training, and analysis tools. <i>Nucleic Acids Research</i> , 2016, 44, D463-D470.	6.5	568
62	Validation of a Metallomics Analysis of Placenta Tissue by Inductively-Coupled Plasma Mass Spectrometry. <i>Biological Trace Element Research</i> , 2016, 169, 164-173.	1.9	8
63	Metabolomics Reveals New Mechanisms for Pathogenesis in Barth Syndrome and Introduces Novel Roles for Cardiolipin in Cellular Function. <i>PLoS ONE</i> , 2016, 11, e0151802.	1.1	31
64	Distribution and biomarker of carbon-14 labeled fullerene C <sub>60</sub> ( <sup>14</sup> C(U)C <sub>60</sub> ) in pregnant and lactating rats and their offspring after maternal intravenous exposure. <i>Journal of Applied Toxicology</i> , 2015, 35, 1438-1451.	1.4	31
65	Distribution and biomarkers of carbon-14 labeled fullerene C <sub>60</sub> ( <sup>14</sup> C(U)C <sub>60</sub> ) in female rats and mice for up to 30 days after intravenous exposure. <i>Journal of Applied Toxicology</i> , 2015, 35, 1452-1464.	1.4	21
66	Military Youth and Obesity: A Review of the Existing Literature 1990-2014. <i>Contemporary Family Therapy</i> , 2015, 37, 364-371.	0.6	2
67	Introducing the USA Plant, Algae and Microbial Metabolomics Research Coordination Network (PAMM-NET). <i>Metabolomics</i> , 2015, 11, 3-5.	1.4	3
68	Development of an Analytical Method for Assessment of Silver Nanoparticle Content in Biological Matrices by Inductively Coupled Plasma Mass Spectrometry. <i>Biological Trace Element Research</i> , 2015, 163, 184-192.	1.9	18
69	Omics Technologies Used in Systems Biology. , 2015, , 57-83.		7
70	Obesity Increases Mortality and Modulates the Lung Metabolome during Pandemic H1N1 Influenza Virus Infection in Mice. <i>Journal of Immunology</i> , 2015, 194, 4846-4859.	0.4	107
71	Commensal microbiota is hepatoprotective and prevents liver fibrosis in mice. <i>FASEB Journal</i> , 2015, 29, 1043-1055.	0.2	156
72	A Systems Biology Approach Utilizing a Mouse Diversity Panel Identifies Genetic Differences Influencing Isoniazid-Induced Microvesicular Steatosis. <i>Toxicological Sciences</i> , 2014, 140, 481-492.	1.4	44

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73	PVP formulated fullerene (C60) increases Rho-kinase dependent vascular tissue contractility in pregnant Sprague Dawley rats. <i>Reproductive Toxicology</i> , 2014, 49, 86-100.	1.3	25
74	C60 Exposure Augments Cardiac Ischemia/Reperfusion Injury and Coronary Artery Contraction in Sprague Dawley Rats. <i>Toxicological Sciences</i> , 2014, 138, 365-378.	1.4	33
75	Analysis of Human Serum and Whole Blood for Mineral Content by ICP-MS and ICP-OES: Development of a Mineralomics Method. <i>Biological Trace Element Research</i> , 2014, 160, 132-142.	1.9	114
76	Metabolomics of brain and reproductive organs: characterizing the impact of gestational exposure to butylbenzyl phthalate on dams and resultant offspring. <i>Metabolomics</i> , 2012, 8, 1012-1025.	1.4	20
77	Multi-walled carbon nanotube directed gene and protein expression in cultured human aortic endothelial cells is influenced by suspension medium. <i>Toxicology</i> , 2012, 302, 114-122.	2.0	19
78	Distribution of carbon-14 labeled C60 ( <sup>14</sup> C]C60) in the pregnant and in the lactating dam and the effect of C60 exposure on the biochemical profile of urine. <i>Journal of Applied Toxicology</i> , 2010, 30, 354-360.	1.4	87
79	Metabolomics of urine for the assessment of microvesicular lipid accumulation in the liver following isoniazid exposure. <i>Metabolomics</i> , 2010, 6, 238-249.	1.4	33
80	Does the Mass Spectrometer Define the Marker? A Comparison of Global Metabolite Profiling Data Generated Simultaneously via UPLC-MS on Two Different Mass Spectrometers. <i>Analytical Chemistry</i> , 2010, 82, 8226-8234.	3.2	58
81	Metabolomics in the assessment of chemical-induced reproductive and developmental outcomes using non-invasive biological fluids: application to the study of butylbenzyl phthalate. <i>Journal of Applied Toxicology</i> , 2009, 29, 703-714.	1.4	40
82	Reconstructing exposures from small samples using physiologically based pharmacokinetic models and multiple biomarkers. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2009, 19, 284-297.	1.8	24
83	Kinetics of Elimination of Urinary Metabolites of Acrylamide in Humans. <i>Toxicological Sciences</i> , 2006, 93, 256-267.	1.4	89
84	Metabolism and Hemoglobin Adduct Formation of Acrylamide in Humans. <i>Toxicological Sciences</i> , 2005, 85, 447-459.	1.4	195
85	Personalized Exposure Assessment: Promising Approaches for Human Environmental Health Research. <i>Environmental Health Perspectives</i> , 2005, 113, 840-848.	2.8	115
86	Pharmacokinetics of Dibutylphthalate in Pregnant Rats. <i>Toxicological Sciences</i> , 2004, 82, 407-418.	1.4	62
87	Characterization of metabolites and disposition of tertiary amyl methyl ether in male F344 rats following inhalation exposure. <i>Journal of Applied Toxicology</i> , 2003, 23, 411-417.	1.4	7
88	Blood pharmacokinetics of tertiary amyl methyl ether in male and female F344 rats and CD-1 mice after nose-only inhalation exposure. <i>Journal of Applied Toxicology</i> , 2003, 23, 419-425.	1.4	5
89	Species and gender differences in the metabolism and distribution of tertiary amyl methyl ether in male and female rats and mice after inhalation exposure or gavage administration. <i>Journal of Applied Toxicology</i> , 2003, 23, 427-436.	1.4	3
90	Acrylamide: A Comparison of Metabolism and Hemoglobin Adducts in Rodents following Dermal, Intraperitoneal, Oral, or Inhalation Exposure. <i>Toxicological Sciences</i> , 2003, 75, 260-270.	1.4	111

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91	Comparison of the Hemoglobin Adducts Formed by Administration of N-Methylolacrylamide and Acrylamide to Rats. <i>Toxicological Sciences</i> , 2003, 71, 164-175.	1.4	52
92	Using Cytochrome P-450 Gene Knock-Out Mice to Study Chemical Metabolism, Toxicity, and Carcinogenicity. <i>Toxicologic Pathology</i> , 2000, 28, 839-850.	0.9	50
93	<sup>13</sup> C-Labeled Methyl tert-Butyl Ether: Toxicokinetics and Characterization of Urinary Metabolites in Humans. <i>Chemical Research in Toxicology</i> , 1999, 12, 822-830.	1.7	25
94	Role of Cytochrome P450 2E1 in the Metabolism of Acrylamide and Acrylonitrile in Mice. <i>Chemical Research in Toxicology</i> , 1999, 12, 1110-1116.	1.7	306
95	Identification of Metabolites of [1,2,3- <sup>13</sup> C]Propargyl Alcohol in Rat Urine by <sup>13</sup> C NMR and Mass Spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , 1999, 47, 1717-1729.	2.4	11
96	Urinary Metabolites from F344 Rats and B6C3F1 Mice Coadministered Acrylamide and Acrylonitrile for 1 or 5 Days. <i>Chemical Research in Toxicology</i> , 1997, 10, 1152-1160.	1.7	87
97	Characterization of Urinary Metabolites from Sprague-Dawley Rats and B6C3F1 Mice Exposed to [1,2,3,4- <sup>13</sup> C]Butadiene. <i>Chemical Research in Toxicology</i> , 1996, 9, 764-773.	1.7	42
98	Identification of Metabolites of Carcinogens by <sup>13</sup> C NMR Spectroscopy. <i>Drug Metabolism Reviews</i> , 1994, 26, 469-481.	1.5	6
99	Characterization and quantitation of urinary metabolites of [1,2,3- <sup>13</sup> C]acrylamide in rats and mice using carbon-13 nuclear magnetic resonance spectroscopy. <i>Chemical Research in Toxicology</i> , 1992, 5, 81-89.	1.7	185
100	Characterization of urinary metabolites from [1,2, methoxy- <sup>13</sup> C]-2-methoxyethanol in mice using carbon-13 nuclear magnetic resonance spectroscopy. <i>Chemical Research in Toxicology</i> , 1992, 5, 553-560.	1.7	24
101	Urinary metabolites of [1,2,3- <sup>13</sup> C]acrylonitrile in rats and mice detected by carbon-13 nuclear magnetic resonance spectroscopy. <i>Chemical Research in Toxicology</i> , 1991, 4, 678-687.	1.7	78