

# Chris D Collins

## List of Publications by Year in descending order

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87  
papers

4,120  
citations

126708

33  
h-index

118652

62  
g-index

87  
all docs

87  
docs citations

87  
times ranked

4396  
citing authors

#	ARTICLE	IF	CITATIONS
1	Outside the Safe Operating Space of the Planetary Boundary for Novel Entities. <i>Environmental Science &amp; Technology</i> , 2022, 56, 1510-1521.	4.6	477
2	Impact of Zero Budget Natural Farming on Crop Yields in Andhra Pradesh, SE India. <i>Sustainability</i> , 2022, 14, 1689.	1.6	10
3	Building soil sustainability from root–soil interface traits. <i>Trends in Plant Science</i> , 2022, 27, 688-698.	4.3	24
4	Soil organic matter storage in temperate lowland arable, grassland and woodland topsoil and subsoil. <i>Soil Use and Management</i> , 2022, 38, 1532-1546.	2.6	14
5	Response to Comment on “Outside the Safe Operating Space of the Planetary Boundary for Novel Entities”. <i>Environmental Science &amp; Technology</i> , 2022, 56, 6788-6789.	4.6	3
6	Oil sludge washing with surfactants and co-solvents: oil recovery from different types of oil sludges. <i>Environmental Science and Pollution Research</i> , 2021, 28, 5867-5879.	2.7	20
7	Ecotoxicity of oil sludges and residuals from their washing with surfactants: soil dehydrogenase and ryegrass germination tests. <i>Environmental Science and Pollution Research</i> , 2021, 28, 13312-13322.	2.7	10
8	Effects of Repeated Application of Organic Soil Amendments on Horticultural Soil Physicochemical Properties, Nitrogen Budget and Yield. <i>Horticulturae</i> , 2021, 7, 371.	1.2	4
9	Bioaccessibility of Difenoconazole in Rice Following Industry Standard Processing and Preparation Procedures. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 10167-10173.	2.4	0
10	The Tea Bag Index—UK: Using Citizen/Community Science to Investigate Organic Matter Decomposition Rates in Domestic Gardens. <i>Sustainability</i> , 2020, 12, 6895.	1.6	14
11	Measuring and Modelling the Plant Uptake and Accumulation of Synthetic Organic Chemicals: With a Focus on Pesticides and Root Uptake. <i>Handbook of Environmental Chemistry</i> , 2020, , 131-147.	0.2	1
12	Chemical Underpinning of the Tea Bag Index: An Examination of the Decomposition of Tea Leaves. <i>Applied and Environmental Soil Science</i> , 2020, 2020, 1-8.	0.8	42
13	Key actions for a sustainable chemicals policy. <i>Environment International</i> , 2020, 137, 105463.	4.8	11
14	A Comparison of Physical Soil Organic Matter Fractionation Methods for Amended Soils. <i>Applied and Environmental Soil Science</i> , 2019, 2019, 1-12.	0.8	9
15	Characterisation of oil sludges from different sources before treatment: High-field nuclear magnetic resonance (NMR) in the determination of oil and water content. <i>Journal of Petroleum Science and Engineering</i> , 2019, 174, 729-737.	2.1	22
16	<i>In Vitro</i> Inhalation Bioaccessibility of Phthalate Esters and Alternative Plasticizers Present in Indoor Dust Using Artificial Lung Fluids. <i>Environmental Science and Technology Letters</i> , 2018, 5, 329-334.	3.9	34
17	Bioaccessibility of PBDEs present in indoor dust: A novel dialysis membrane method with a Tenax TAA® absorption sink. <i>Science of the Total Environment</i> , 2018, 621, 1-8.	3.9	25
18	Physiologically-based pharmacokinetic and toxicokinetic models for estimating human exposure to five toxic elements through oral ingestion. <i>Environmental Toxicology and Pharmacology</i> , 2018, 57, 104-114.	2.0	18

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19	Low-Cost Turbidity Sensor for Low-Power Wireless Monitoring of Fresh-Water Courses. <i>IEEE Sensors Journal</i> , 2018, 18, 4689-4696.	2.4	68
20	Maximisation of oil recovery from an oil-water separator sludge: Influence of type, concentration, and application ratio of surfactants. <i>Waste Management</i> , 2018, 82, 100-110.	3.7	35
21	Modelling the bioaccumulation of persistent organic pollutants in agricultural food chains for regulatory exposure assessment. <i>Environmental Science and Pollution Research</i> , 2017, 24, 4252-4260.	2.7	4
22	Legacy and alternative flame retardants in Norwegian and UK indoor environment: Implications of human exposure via dust ingestion. <i>Environment International</i> , 2017, 102, 48-56.	4.8	114
23	Alkali-“earth metal bridges formed in biofilm matrices regulate the uptake of fluoroquinolone antibiotics and protect against bacterial apoptosis. <i>Environmental Pollution</i> , 2017, 220, 112-123.	3.7	13
24	Effects of Land Management on Different Forms of Soil Carbon in Olive Groves in Mediterranean Areas. <i>Land Degradation and Development</i> , 2016, 27, 1186-1195.	1.8	24
25	Considering evidence: The approach taken by the Hazardous Substances Advisory Committee in the UK. <i>Environment International</i> , 2016, 92-93, 565-568.	4.8	2
26	Does the source migration pathway of HBCDs to household dust influence their bio-accessibility?. <i>Science of the Total Environment</i> , 2016, 569-570, 244-251.	3.9	10
27	Sampling strategy for estimating human exposure pathways to consumer chemicals. <i>Emerging Contaminants</i> , 2016, 2, 26-36.	2.2	35
28	Soil quality assessment based on carbon stratification index in different olive grove management practices in Mediterranean areas. <i>Catena</i> , 2016, 137, 449-458.	2.2	43
29	Assessment and improvement of biotransfer models to cow’s milk and beef used in exposure assessment tools for organic pollutants. <i>Chemosphere</i> , 2015, 138, 390-397.	4.2	10
30	“Towards a unified approach for the determination of the bioaccessibility of organic pollutants” <sup>TM</sup> . <i>Environment International</i> , 2015, 78, 24-31.	4.8	58
31	Assessment of Plant Uptake Models Used in Exposure Assessment Tools for Soils Contaminated with Organic Pollutants. <i>Environmental Science &amp; Technology</i> , 2014, 48, 12073-12082.	4.6	33
32	Is there sufficient “sink” <sup>TM</sup> in current bioaccessibility determinations of organic pollutants in soils?. <i>Environmental Pollution</i> , 2013, 181, 128-132.	3.7	45
33	Sorptive Physiologically Based Extraction of Contaminated Solid Matrices: Incorporating Silicone Rod As Absorption Sink for Hydrophobic Organic Contaminants. <i>Environmental Science &amp; Technology</i> , 2013, 47, 941-948.	4.6	52
34	Nanoscale zerovalent iron alters soil bacterial community structure and inhibits chloroaromatic biodegradation potential in Aroclor 1242-contaminated soil. <i>Environmental Pollution</i> , 2013, 173, 38-46.	3.7	75
35	Promoting the use of BaP as a marker for PAH exposure in UK soils. <i>Environmental Geochemistry and Health</i> , 2013, 35, 101-109.	1.8	16
36	Passive Samplers Provide a Better Prediction of PAH Bioaccumulation in Earthworms and Plant Roots than Exhaustive, Mild Solvent, and Cyclodextrin Extractions.. <i>Environmental Science &amp; Technology</i> , 2012, 46, 962-969.	4.6	82

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37	In vitro assessment of the bioaccessibility of brominated flame retardants in indoor dust using a colon extended model of the human gastrointestinal tract. <i>Journal of Environmental Monitoring</i> , 2012, 14, 3276.	2.1	48
38	Colon Extended Physiologically Based Extraction Test (CE-PBET) Increases Bioaccessibility of Soil-Bound PAH. <i>Environmental Science &amp; Technology</i> , 2011, 45, 5301-5308.	4.6	53
39	Plant Uptake of Xenobiotics. <i>Plant Ecophysiology</i> , 2011, , 3-16.	1.5	25
40	Effects of biochar and the earthworm <i>Eisenia fetida</i> on the bioavailability of polycyclic aromatic hydrocarbons and potentially toxic elements. <i>Environmental Pollution</i> , 2011, 159, 616-622.	3.7	249
41	Using deuterated PAH amendments to validate chemical extraction methods to predict PAH bioavailability in soils. <i>Environmental Pollution</i> , 2011, 159, 918-923.	3.7	21
42	Assessing the impact of nano- and micro-scale zerovalent iron particles on soil microbial activities: Particle reactivity interferes with assay conditions and interpretation of genuine microbial effects. <i>Chemosphere</i> , 2011, 82, 1675-1682.	4.2	100
43	Modelling of haloacetic acid concentrations in a United Kingdom drinking water system. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2011, 60, 275-285.	0.6	8
44	Relative proportions of polycyclic aromatic hydrocarbons differ between accumulation bioassays and chemical methods to predict bioavailability. <i>Environmental Pollution</i> , 2010, 158, 278-284.	3.7	54
45	Speciation and variation in the occurrence of haloacetic acids in three water supply systems in England. <i>Water and Environment Journal</i> , 2010, 24, 237-245.	1.0	16
46	Modeling the Plant Uptake of Organic Chemicals, Including the Soil-Air-Plant Pathway. <i>Environmental Science &amp; Technology</i> , 2010, 44, 998-1003.	4.6	73
47	Uptake Pathways of Polycyclic Aromatic Hydrocarbons in White Clover. <i>Environmental Science &amp; Technology</i> , 2009, 43, 6190-6195.	4.6	95
48	A comparison of the role of two blue-green algae in THM and HAA formation. <i>Water Research</i> , 2009, 43, 3009-3018.	5.3	161
49	PHYLOGENETIC VARIATION IN THE TOLERANCE AND UPTAKE OF ORGANIC CONTAMINANTS. <i>International Journal of Phytoremediation</i> , 2009, 11, 623-639.	1.7	10
50	Remediation of soils contaminated with petrol and diesel using lime. <i>Land Contamination and Reclamation</i> , 2009, 17, 237-244.	0.4	2
51	Degradation and plant uptake of nonylphenol (NP) and nonylphenol-12-ethoxylate (NP12EO) in four contrasting agricultural soils. <i>Environmental Pollution</i> , 2008, 156, 1284-1289.	3.7	47
52	A Semi-Quantitative Approach to Deriving a Model Structure for the Uptake of Organic Chemicals by Vegetation. <i>International Journal of Phytoremediation</i> , 2008, 10, 371-377.	1.7	6
53	Evaluation of <i>Anabaena flos-aquae</i> as a precursor for trihalomethane and haloacetic acid formation. <i>Water Science and Technology: Water Supply</i> , 2008, 8, 653-662.	1.0	11
54	Organic Pollutants in Animal Products. , 2008, , 55-62.		0

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55	Phytoremediation of soils contaminated with radionuclides. <i>Radioactivity in the Environment</i> , 2007, 10, 43-69.	0.2	2
56	PLANT UPTAKE OF ORGANIC CHEMICALS: CURRENT DEVELOPMENTS AND RECOMMENDATIONS FOR FUTURE RESEARCH. <i>Environmental Toxicology and Chemistry</i> , 2007, 26, 2465.	2.2	4
57	Plant Uptake of Non-Ionic Organic Chemicals. <i>Environmental Science &amp; Technology</i> , 2006, 40, 45-52.	4.6	489
58	Human exposure modelling for chemical risk assessment: a review of current approaches and research and policy implications. <i>Environmental Science and Policy</i> , 2006, 9, 261-274.	2.4	185
59	Modelling and experimental studies on the transfer of radionuclides to fruit. <i>Journal of Environmental Radioactivity</i> , 2005, 84, 271-284.	0.9	9
60	Modelling the fate of sulphur-35 in crops. 1. Calibration data. <i>Environmental Pollution</i> , 2005, 133, 431-437.	3.7	8
61	Modelling the fate of sulphur-35 in crops. 2. Development and validation of the CROPS-35 model. <i>Environmental Pollution</i> , 2005, 133, 439-445.	3.7	6
62	Haloacetic acids in drinking water in the United Kingdom. <i>Water Research</i> , 2005, 39, 2722-2730.	5.3	100
63	Determination of solid-liquid partition coefficients (Kd) for diazinon, propetamphos and cis-permethrin: implications for sheep dip disposal. <i>Science of the Total Environment</i> , 2004, 329, 197-213.	3.9	22
64	Determination of solid-liquid partition coefficients (Kd) for the herbicides isoproturon and trifluralin in five UK agricultural soils. <i>Environmental Pollution</i> , 2004, 132, 541-552.	3.7	49
65	THE DEPOSITION AND TRANSLOCATION OF METHYL IODIDE BY CROPS. <i>Health Physics</i> , 2004, 87, 512-516.	0.3	7
66	HALOACETIC ACIDS IN DRINKING WATER IN THE UK. <i>Epidemiology</i> , 2004, 15, S106-S107.	1.2	2
67	Interaction of Formaldehyde with Soil Humic Substances: Separation by GFC and Characterization by 1H-NMR Spectroscopy. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2003, 70, 761-768.	1.3	6
68	Model Intercomparison for the Uptake of Organic Chemicals by Plants. <i>Environmental Science &amp; Technology</i> , 2003, 37, 3038-3038.	4.6	9
69	Model Intercomparison for the Uptake of Organic Chemicals by Plants. <i>Environmental Science &amp; Technology</i> , 2003, 37, 1617-1624.	4.6	59
70	Speciation of Cr and As Leachates from CCA Treated Wood by Differential Pulse Polarography. <i>Holzforschung</i> , 2003, 57, 597-601.	0.9	5
71	Conjugating Enzymes Involved in Xenobiotic Metabolism of Organic Xenobiotics in Plants. <i>International Journal of Phytoremediation</i> , 2002, 4, 247-265.	1.7	116
72	The importance of the short-term leaching dynamics of wood preservatives. <i>Chemosphere</i> , 2002, 47, 517-523.	4.2	19

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73	Remediation of BTEX and trichloroethene. <i>Environmental Science and Pollution Research</i> , 2002, 9, 86-94.	2.7	60
74	Influence of Leaching Protocol Regimes on Losses of Wood Preservative Biocides. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2002, 68, 118-125.	1.3	8
75	Leaching of chromated copper arsenate wood preservatives: a review. <i>Environmental Pollution</i> , 2001, 111, 53-66.	3.7	280
76	Deposition of gaseous radionuclides to fruit. <i>Journal of Environmental Radioactivity</i> , 2001, 52, 175-189.	0.9	7
77	Experimental studies on the deposition to crops of radioactive gases released from gas-cooled reactors " III. Carbon-14 dioxide. <i>Journal of Environmental Radioactivity</i> , 2001, 53, 215-229.	0.9	8
78	Abiotic Behaviour of Organic Micropollutants in Soils and the Aquatic Environment. A Review: I. Partitioning. <i>Environmental Technology (United Kingdom)</i> , 2000, 21, 845-863.	1.2	25
79	Abiotic Behaviour of Organic Micropollutants in Soils and the Aquatic Environment. A Review: II. Transformations. <i>Environmental Technology (United Kingdom)</i> , 2000, 21, 865-882.	1.2	40
80	Benzene accumulation in horticultural crops. <i>Chemosphere</i> , 2000, 40, 109-114.	4.2	35
81	Strategies for minimizing environmental contaminants. <i>Trends in Plant Science</i> , 1999, 4, 45.	4.3	4
82	Sources of Organic Micropollutants to Lowland Rivers. <i>Environmental Technology (United Kingdom)</i> , 1998, 19, 643-666.	1.2	57
83	Experimental studies on the deposition to crops of radioactive gases released from gas-cooled reactors "II. Hydrogen sulphide-35. <i>Journal of Environmental Radioactivity</i> , 1997, 34, 237-251.	0.9	12
84	Dynamics of tritiated water (HTO) uptake and loss by crops after short-term atmospheric release. <i>Journal of Environmental Radioactivity</i> , 1997, 36, 197-218.	0.9	30
85	Experimental studies on the deposition to crops of radioactive gases released from gas cooled reactors. Part 1. Carbonyl sulphide-35. <i>Journal of Environmental Radioactivity</i> , 1996, 30, 99-115.	0.9	12
86	The deposition of 14C, 3H and 35S to vegetation in the vicinities of a Magnox and an advanced gas cooled reactor. <i>Science of the Total Environment</i> , 1995, 173-174, 399-406.	3.9	7
87	The preparation of high purity H235S. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 1994, 34, 1117-1119.	0.5	2