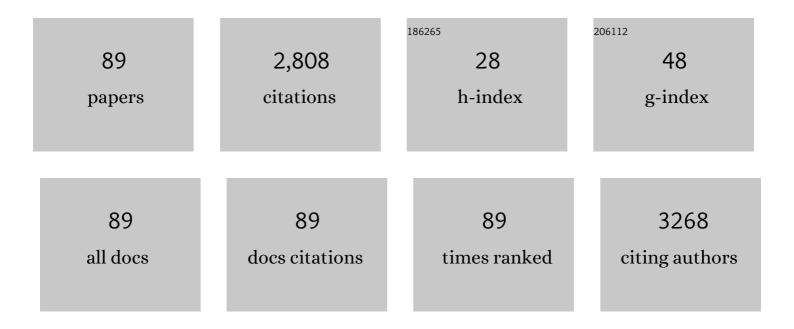
Neil Mj Crout

List of Publications by Year in descending order

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#	Article	lF	CITATIONS
1	Predicting the activity of Cd2+ and Zn2+ in soil pore water from the radio-labile metal fraction. Geochimica Et Cosmochimica Acta, 2003, 67, 375-385.	3.9	127
2	Methods for determining labile cadmium and zinc in soil. European Journal of Soil Science, 2000, 51, 129-136.	3.9	122
3	Towards the systematic simplification of mechanistic models. Ecological Modelling, 2006, 198, 240-246.	2.5	118
4	Predicting Soil to Plant Transfer of Radiocesium Using Soil Characteristics. Environmental Science & Technology, 1999, 33, 1218-1223.	10.0	115
5	Predicting the transfer of radiocaesium from organic soils to plants using soil characteristics. Journal of Environmental Radioactivity, 2001, 52, 31-43.	1.7	110
6	Threeâ€dimensional quantification of soil hydraulic properties using Xâ€ray Computed Tomography and imageâ€based modeling. Water Resources Research, 2015, 51, 1006-1022.	4.2	94
7	Radio-caesium fixation dynamics: measurement in six Cumbrian soils. European Journal of Soil Science, 1995, 46, 461-469.	3.9	77
8	Consequences of warming on tundra carbon balance determined by reindeer grazing history. Nature Climate Change, 2014, 4, 384-388.	18.8	75
9	Evaluating a â€~Free Ion Activity Model' applied to metal uptake by Lolium perenne L. grown in contaminated soils Plant and Soil, 2005, 270, 1-12.	3.7	73
10	Modelling of Cd, Cu, Ni, Pb and Zn uptake, by winter wheat and forage maize, from a sewage disposal farm. Soil Use and Management, 2003, 19, 19-27.	4.9	72
11	Phytoextraction of cadmium and zinc from arable soils amended with sewage sludge using Thlaspi caerulescens: Development of a predictive model. Environmental Pollution, 2007, 150, 363-372.	7.5	71
12	Phytoextraction of cadmium and zinc by Salix from soil historically amended with sewage sludge. Plant and Soil, 2007, 290, 157-172.	3.7	71
13	Technical assessment and evaluation of environmental models and software: Letter to the Editor. Environmental Modelling and Software, 2011, 26, 328-336.	4.5	64
14	Is my model too complex? Evaluating model formulation using model reduction. Environmental Modelling and Software, 2009, 24, 1-7.	4.5	61
15	Assessing the influence of the rhizosphere on soil hydraulic properties using X-ray computed tomography and numerical modelling. Journal of Experimental Botany, 2015, 66, 2305-2314.	4.8	60
16	Urban geochemistry: research strategies to assist risk assessment and remediation of brownfield sites in urban areas. Environmental Geochemistry and Health, 2008, 30, 565-576.	3.4	59
17	Speciation and solubility of Cu, Ni and Pb in contaminated soils. European Journal of Soil Science, 2004, 55, 579-590.	3.9	57
18	A review of transfer to fungi and consequences for modelling environmental transfer. Journal of Environmental Radioactivity, 2000, 48, 95-121.	1.7	49

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19	The fate of 15N added to high Arctic tundra to mimic increased inputs of atmospheric nitrogen released from a melting snowpack. Global Change Biology, 2005, 11, 1640-1654.	9.5	44
20	Complementarity of light and water use in tropical agroforests. Forest Ecology and Management, 1998, 102, 259-274.	3.2	39
21	KINETICS OF METAL FIXATION IN SOILS: MEASUREMENT AND MODELING BY ISOTOPIC DILUTION. Environmental Toxicology and Chemistry, 2006, 25, 659.	4.3	39
22	Kinetics of Cd sorption, desorption and fixation by calcite: A long-term radiotracer study. Geochimica Et Cosmochimica Acta, 2008, 72, 1498-1512.	3.9	38
23	Predicting Arsenic Solubility in Contaminated Soils Using Isotopic Dilution Techniques. Environmental Science & Technology, 2002, 36, 982-988.	10.0	36
24	Quantification of root water uptake in soil using Xâ€ray computed tomography and imageâ€based modelling. Plant, Cell and Environment, 2018, 41, 121-133.	5.7	36
25	Photothermal impact on maize performance: a simulation approach. Ecological Modelling, 2004, 180, 277-290.	2.5	34
26	Effects of gamma irradiation on Holcus lanatus (Yorkshire fog grass) and associated soil microorganisms. Journal of Environmental Radioactivity, 2004, 74, 57-71.	1.7	34
27	KINETICS OF ZINC AND CADMIUM RELEASE IN FRESHLY CONTAMINATED SOILS. Environmental Toxicology and Chemistry, 2006, 25, 664.	4.3	34
28	The uptake by vegetation of chernobyl and aged radiocaesium in upland West Cumbria. Journal of Environmental Radioactivity, 1992, 16, 181-195.	1.7	33
29	Fit-for-purpose modelling of radiocaesium soil-to-plant transfer for nuclear emergencies: a review. Journal of Environmental Radioactivity, 2019, 201, 58-66.	1.7	33
30	Applying Bayesian Model Averaging to mechanistic models: An example and comparison of methods. Environmental Modelling and Software, 2008, 23, 973-985.	4.5	30
31	Iodine binding to humic acid. Chemosphere, 2016, 157, 208-214.	8.2	30
32	Modelling 3H and 14C transfer to farm animals and their products under steady state conditions. Journal of Environmental Radioactivity, 2007, 98, 205-217.	1.7	29
33	A stochastic modelling approach for real-time forecasting of winter wheat yield. Field Crops Research, 1999, 62, 85-95.	5.1	28
34	Changes in CO2 during Ocean Anoxic Event 1d indicate similarities to other carbon cycle perturbations. Earth and Planetary Science Letters, 2018, 491, 172-182.	4.4	28
35	Microbial carbon dynamics in nitrogen amended Arctic tundra soil: Measurement and model testing. Soil Biology and Biochemistry, 2005, 37, 2088-2098.	8.8	27
36	How well do crop modeling groups predict wheat phenology, given calibration data from the target population?. European Journal of Agronomy, 2021, 124, 126195.	4.1	27

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37	Evaluating and reducing a model of radiocaesium soil-plant uptake. Journal of Environmental Radioactivity, 2011, 102, 262-269.	1.7	26
38	Modeling Radiocesium Fixation in Upland Organic Soils of Northwest England. Environmental Science & Technology, 1996, 30, 2735-2741.	10.0	25
39	Generic relationship between calcium intake and radiostrontium transfer to the milk of dairy ruminants. Radiation and Environmental Biophysics, 1998, 37, 129-131.	1.4	24
40	Coordination of Cd2+ ions in the internal pore system of zeolite-X: A combined EXAFS and isotopic exchange study. Geochimica Et Cosmochimica Acta, 2009, 73, 1577-1587.	3.9	24
41	Inter-varietal variation in caesium and strontium uptake by plants: aÂmeta-analysis. Journal of Environmental Radioactivity, 2015, 139, 103-117.	1.7	23
42	Transfer of Cadmium and Mercury to Sheep Tissues. Environmental Science & Technology, 1999, 33, 2395-2402.	10.0	22
43	Spatial modelling of transfer of long-lived radionuclides from soil to agricultural products in the Chernigov region, Ukraine. Ecological Modelling, 2000, 128, 35-50.	2.5	22
44	Variation in the metabolism of radiocaesium between individual sheep. Radiation and Environmental Biophysics, 1998, 37, 277-281.	1.4	21
45	Modelling the canopy development of bambara groundnut. Agricultural and Forest Meteorology, 2010, 150, 1007-1015.	4.8	21
46	The use of dietary calcium intake of dairy ruminants to predict the transfer coefficient of radiostrontium to milk. Radiation and Environmental Biophysics, 1997, 36, 39-43.	1.4	20
47	Dynamic distribution of radioisotopes of cerium, ruthenium and silver in sheep tissues. Journal of Environmental Radioactivity, 1998, 38, 317-338.	1.7	20
48	The dynamic transfer of 3H and 14C in mammals: a proposed generic model. Radiation and Environmental Biophysics, 2009, 48, 29-45.	1.4	20
49	Neural network unfolding of photon and neutron spectra using an NE-213 scintillation detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1993, 329, 269-276.	1.6	19
50	Zinc uptake and phyto-toxicity: Comparing intensity- and capacity-based drivers. Science of the Total Environment, 2020, 699, 134314.	8.0	19
51	A model of radioiodine transfer to goat milk incorporating the influence of stable iodine. Radiation and Environmental Biophysics, 2000, 39, 59-65.	1.4	18
52	The transfer of 73As, 109Cd and 203Hg to the milk and tissues of dairy cattle. Journal of Agricultural Science, 2004, 142, 203-212.	1.3	18
53	A thermodynamic model of freshwater Antarctic lake ice. Ecological Modelling, 2008, 210, 231-241.	2.5	18
54	Dynamic radiocaesium distribution in sheep: Measurement and modelling. Journal of Environmental Radioactivity, 1993, 20, 35-48.	1.7	17

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55	Modeling the Dynamics of Radioiodine in Dairy Cows. Journal of Dairy Science, 1996, 79, 254-259.	3.4	17
56	OVERVIEW OF SELECTED SOIL PORE WATER EXTRACTION METHODS FOR THE DETERMINATION OF POTENTIALLY TOXIC ELEMENTS IN CONTAMINATED SOILS: OPERATIONAL AND TECHNICAL ASPECTS. , 2008, , 213-249.		17
57	The impact of long-term biosolids application (>100Âyears) on soil metal dynamics. Science of the Total Environment, 2020, 720, 137441.	8.0	17
58	Radiocaesium variability within sheep flocks: relationships between the 137Cs activity concentrations of individual ewes within a flock and between ewes and their progeny. Science of the Total Environment, 1996, 177, 85-96.	8.0	16
59	Time-dependent sorption of Cd2+ on CaX zeolite: Experimental observations and model predictions. Geochimica Et Cosmochimica Acta, 2006, 70, 4850-4861.	3.9	16
60	Chapter Two Good Modelling Practice. Developments in Integrated Environmental Assessment, 2008, 3, 15-31.	0.0	16
61	The effects of elevated carbon dioxide, temperature and soil moisture on the water use of stands of groundnut (Arachis hypogaeaL.). Journal of Experimental Botany, 1994, 45, 1633-1638.	4.8	15
62	A Model of Radiostrontium Transfer in Dairy Goats Based on Calcium Metabolism. Journal of Dairy Science, 1998, 81, 92-99.	3.4	15
63	Does soil adhesion matter when predicting radiocaesium transfer to animals?. Journal of Environmental Radioactivity, 1993, 20, 201-212.	1.7	14
64	A metabolic derivation of tritium transfer coefficients in animal products. Radiation and Environmental Biophysics, 2001, 40, 325-334.	1.4	14
65	Identifying optimal agricultural countermeasure strategies for a hypothetical contamination scenario using the strategy model. Journal of Environmental Radioactivity, 2005, 83, 383-397.	1.7	14
66	Factors contributing to radiocaesium variability in upland sheep flocks in west Cumbria (United) Tj ETQq0 0 0 rg	BT /Overlo	ock 10 Tf 50 3
67	Zinc solubility and fractionation in cultivated calcareous soils irrigated with wastewater. Science of the Total Environment, 2015, 518-519, 310-319.	8.0	14
68	Simple winter wheat green area index model under UK conditions. Journal of Agricultural Science, 1999, 132, 263-271.	1.3	13
69	Ageing and structural effects on the sorption characteristics of Cd2+ by clinoptilolite and Y-type zeolite studied using isotope exchange technique. Journal of Hazardous Materials, 2010, 184, 574-584.	12.4	13
70	Iodine bioavailability in acidic soils of Northern Ireland. Geoderma, 2019, 348, 97-106.	5.1	13
71	The transfer of arsenic to sheep tissues. Journal of Agricultural Science, 2001, 136, 331-344.	1.3	12
72	Realâ€ŧime physical data acquisition through a remote sensing platform on a polar lake. Limnology and Oceanography: Methods, 2004, 2, 191-201.	2.0	12

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73	A metabolic approach to simulating the dynamics of C-14, H-3 and S-35 in sheep tissues. Radiation and Environmental Biophysics, 1998, 36, 243-250.	1.4	10
74	What role should null-hypothesis significance tests have in statistical education and hypothesis falsification?. Trends in Ecology and Evolution, 2007, 22, 445-446.	8.7	10
75	An approach to modelling the effect of environmental and physiological factors upon biomass accumulation in winter wheat. Journal of Agricultural Science, 2001, 136, 369-381.	1.3	9
76	Semi-automatic reduction and upscaling of large models: A farm management example. Ecological Modelling, 2010, 221, 590-598.	2.5	9
77	Analysis of 129I and 127I in soils of the Chernobyl Exclusion Zone, 29†years after the deposition of 129I. Science of the Total Environment, 2019, 692, 966-974.	8.0	9
78	Investigating the use of microdialysis and SEC-UV-ICP-MS to assess iodine interactions in soil solution. Chemosphere, 2019, 229, 41-50.	8.2	8
79	Effects of incubation time and filtration method on K d of indigenous selenium and iodine in temperate soils. Journal of Environmental Radioactivity, 2017, 177, 84-90.	1.7	6
80	Modelling of Cd, Cu, Ni, Pb and Zn uptake, by winter wheat and forage maize, from a sewage disposal farm. Soil Use and Management, 2003, 19, 19-27.	4.9	6
81	TLM: a technique with application in the numerical solution of diffusion problems. Agricultural and Forest Meteorology, 1990, 51, 1-20.	4.8	5
82	Have missing markets for ecological goods and services affected modelling of terrestrial C and N fluxes?. Ecological Modelling, 2004, 179, 569-574.	2.5	5
83	Chapter 9 Predicting transfer of radionuclides: soil-plant-animal. Radioactivity in the Environment, 2003, 4, 261-286.	0.2	4
84	An objective approach to model reduction: Application to the Sirius wheat model. Agricultural and Forest Meteorology, 2014, 189-190, 211-219.	4.8	4
85	Extraction and Characterization of Pore Water in Contaminated Soils. , 2018, , 195-235.		4
86	Calibration of an NE213 scintillator up to 60 MeV for in situ spectrometry in a neutron cancer therapy facility. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1989, 277, 664-668.	1.6	3
87	Derivation of irrigation requirements for radiological impact assessments. Journal of Environmental Radioactivity, 2016, 164, 91-103.	1.7	2
88	Using Simulated Weather Data and Updating Technique to Forecast Wheat Yield. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 61-65.	0.4	1
89	Operating at the extreme: estimating the upper yield boundary of winter wheat production in commercial practice. Royal Society Open Science, 2020, 7, 191919.	2.4	0