

# Daren C Gooddy

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5274519/publications.pdf>

Version: 2024-02-01

112  
papers

4,664  
citations

101384

36  
h-index

114278

63  
g-index

127  
all docs

127  
docs citations

127  
times ranked

5184  
citing authors

#	ARTICLE	IF	CITATIONS
1	A systematic approach to understand hydrogeochemical dynamics in large river systems: Development and application to the River Ganges (Ganga) in India. <i>Water Research</i> , 2022, 211, 118054.	5.3	13
2	$\delta^{18}O$ as a tracer of $PO_4^{3-}$ losses from agricultural landscapes. <i>Journal of Environmental Management</i> , 2022, 317, 115299.	3.8	4
3	Environmental tracers and groundwater residence time indicators reveal controls of arsenic accumulation rates beneath a rapidly developing urban area in Patna, India. <i>Journal of Contaminant Hydrology</i> , 2022, 249, 104043.	1.6	10
4	Hydrogeology of an urban weathered basement aquifer in Kampala, Uganda. <i>Hydrogeology Journal</i> , 2022, 30, 1469-1487.	0.9	2
5	Quantifying the impacts of groundwater abstraction on Ganges river water infiltration into shallow aquifers under the rapidly developing city of Patna, India. <i>Journal of Hydrology: Regional Studies</i> , 2022, 42, 101133.	1.0	4
6	Emerging organic contaminants in groundwater under a rapidly developing city (Patna) in northern India dominated by high concentrations of lifestyle chemicals. <i>Environmental Pollution</i> , 2021, 268, 115765.	3.7	31
7	Environmental tracers to evaluate groundwater residence times and water quality risk in shallow unconfined aquifers in sub-Saharan Africa. <i>Journal of Hydrology</i> , 2021, 598, 125753.	2.3	20
8	Global patterns of nitrate isotope composition in rivers and adjacent aquifers reveal reactive nitrogen cascading. <i>Communications Earth &amp; Environment</i> , 2021, 2, .	2.6	56
9	Advection Not Dispersion and Transient Storage Controls Streambed Nutrient and Greenhouse Gas Concentrations. <i>Frontiers in Water</i> , 2021, 3, .	1.0	0
10	The need to integrate legacy nitrogen storage dynamics and time lags into policy and practice. <i>Science of the Total Environment</i> , 2021, 781, 146698.	3.9	31
11	Elevated uranium in drinking water sources in basement aquifers of southern India. <i>Applied Geochemistry</i> , 2021, 133, 105092.	1.4	12
12	The method controls the story - Sampling method impacts on the detection of pore-water nitrogen concentrations in streambeds. <i>Science of the Total Environment</i> , 2020, 709, 136075.	3.9	2
13	Prediction of regional-scale groundwater recharge and nitrate storage in the vadose zone: A comparison between a global model and a regional model. <i>Hydrological Processes</i> , 2020, 34, 3347-3357.	1.1	7
14	Seasonal variability of sediment controls of nitrogen cycling in an agricultural stream. <i>Biogeochemistry</i> , 2020, 148, 31-48.	1.7	16
15	Changes in global groundwater organic carbon driven by climate change and urbanization. <i>Nature Communications</i> , 2020, 11, 1279.	5.8	128
16	Rates of hydroxyapatite formation and dissolution in a sandstone aquifer: Implications for understanding dynamic phosphate behaviour within an agricultural catchment. <i>Applied Geochemistry</i> , 2020, 115, 104534.	1.4	8
17	Determining the Impact of Riparian Wetlands on Nutrient Cycling, Storage and Export in Permeable Agricultural Catchments. <i>Water (Switzerland)</i> , 2020, 12, 167.	1.2	14
18	Groundwater connectivity of a sheared gneiss aquifer in the Cauvery River basin, India. <i>Hydrogeology Journal</i> , 2020, 28, 1371-1388.	0.9	20

#	ARTICLE	IF	CITATIONS
19	A New Technique to Determine the Phosphate Oxygen Isotope Composition of Freshwater Samples at Low Ambient Phosphate Concentration. <i>Environmental Science &amp; Technology</i> , 2019, 53, 10288-10294.	4.6	16
20	Seasonal variability of sediment controls of carbon cycling in an agricultural stream. <i>Science of the Total Environment</i> , 2019, 688, 732-741.	3.9	18
21	Towards a global interpretation of dual nitrate isotopes in surface waters. <i>Journal of Hydrology X</i> , 2019, 4, 100037.	0.8	16
22	Dissolved organic matter tracers reveal contrasting characteristics across high arsenic aquifers in Cambodia: A fluorescence spectroscopy study. <i>Geoscience Frontiers</i> , 2019, 10, 1653-1667.	4.3	28
23	Provenance of drinking water revealed through compliance sampling. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 1052-1064.	1.7	5
24	Geological structure as a control on floodplain groundwater dynamics. <i>Hydrogeology Journal</i> , 2019, 27, 703-716.	0.9	19
25	Reply to 'Pseudoreplication and greenhouse-gas emissions from rivers'. <i>Nature Communications</i> , 2019, 10, 5369.	5.8	0
26	Dual in-aquifer and near surface processes drive arsenic mobilization in Cambodian groundwaters. <i>Science of the Total Environment</i> , 2019, 659, 699-714.	3.9	25
27	Use and application of CFC-11, CFC-12, CFC-113 and SF6 as environmental tracers of groundwater residence time: A review. <i>Geoscience Frontiers</i> , 2019, 10, 1643-1652.	4.3	34
28	Online fluorescence spectroscopy for the real-time evaluation of the microbial quality of drinking water. <i>Water Research</i> , 2018, 137, 301-309.	5.3	76
29	Public Water Supply Is Responsible for Significant Fluxes of Inorganic Nitrogen in the Environment. <i>Environmental Science &amp; Technology</i> , 2018, 52, 14050-14060.	4.6	3
30	Water and nitrate exchange between a managed river and peri-urban floodplain aquifer: Quantification and management implications. <i>Ecological Engineering</i> , 2018, 123, 226-237.	1.6	9
31	Phosphorus fluxes to the environment from mains water leakage: Seasonality and future scenarios. <i>Science of the Total Environment</i> , 2018, 636, 1321-1332.	3.9	10
32	Thermal sensitivity of CO2 and CH4 emissions varies with streambed sediment properties. <i>Nature Communications</i> , 2018, 9, 2803.	5.8	45
33	Evaluating the stable isotopic composition of phosphate oxygen as a tracer of phosphorus from waste water treatment works. <i>Applied Geochemistry</i> , 2018, 95, 139-146.	1.4	15
34	Deep urban groundwater vulnerability in India revealed through the use of emerging organic contaminants and residence time tracers. <i>Environmental Pollution</i> , 2018, 240, 938-949.	3.7	94
35	Security of Deep Groundwater in the Coastal Bengal Basin Revealed by Tracers. <i>Geophysical Research Letters</i> , 2018, 45, 8241-8252.	1.5	25
36	Mains water leakage: Implications for phosphorus source apportionment and policy responses in catchments. <i>Science of the Total Environment</i> , 2017, 579, 702-708.	3.9	20

#	ARTICLE	IF	CITATIONS
37	Opening Opportunities for High-Resolution Isotope Analysis - Quantification of $\delta^{15}\text{N}$ and $\delta^{18}\text{O}$ in Diffusive Equilibrium in Thin-Film Passive Samplers. <i>Analytical Chemistry</i> , 2017, 89, 4139-4146.	3.2	2
38	Role of Humic Acid in the Stability of Ag Nanoparticles in Suboxic Conditions. <i>Environmental Science &amp; Technology</i> , 2017, 51, 6063-6070.	4.6	24
39	Global patterns of nitrate storage in the vadose zone. <i>Nature Communications</i> , 2017, 8, 1416.	5.8	233
40	The Influence of Flow and Bed Slope on Gas Transfer in Steep Streams and Their Implications for Evasion of $\text{CO}_2$ . <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 2862-2875.	1.3	24
41	Testing tritium-helium groundwater dating in the Chalk aquifer of the Berkshire Downs, UK. <i>Geochemical Journal</i> , 2017, 51, 409-421.	0.5	7
42	Long-term Holocene groundwater fluctuations in a chalk catchment: evidence from Rock-Eval pyrolysis of riparian peats. <i>Hydrological Processes</i> , 2016, 30, 4556-4567.	1.1	25
43	Impacts of extreme flooding on riverbank filtration water quality. <i>Science of the Total Environment</i> , 2016, 554-555, 89-101.	3.9	46
44	Integrated time-lapse geoelectrical imaging of wetland hydrological processes. <i>Water Resources Research</i> , 2016, 52, 1607-1625.	1.7	36
45	Estimating the leakage contribution of phosphate dosed drinking water to environmental phosphorus pollution at the national-scale. <i>Science of the Total Environment</i> , 2016, 572, 1534-1542.	3.9	34
46	A multi-stable isotope framework to understand eutrophication in aquatic ecosystems. <i>Water Research</i> , 2016, 88, 623-633.	5.3	83
47	Groundwater recharge and age-depth profiles of intensively exploited groundwater resources in northwest India. <i>Geophysical Research Letters</i> , 2015, 42, 7554-7562.	1.5	79
48	Groundwater recharge and flow on Montserrat, West Indies: Insights from groundwater dating. <i>Journal of Hydrology: Regional Studies</i> , 2015, 4, 611-622.	1.0	9
49	Fluvial response to Late Pleistocene and Holocene environmental change in a Thames chalkland headwater: the Lambourn of southern England. <i>Proceedings of the Geologists Association</i> , 2015, 126, 683-697.	0.6	15
50	Isotopic Fingerprint for Phosphorus in Drinking Water Supplies. <i>Environmental Science &amp; Technology</i> , 2015, 49, 9020-9028.	4.6	35
51	Discrete wetland groundwater discharges revealed with a three-dimensional temperature model and botanical indicators (Boxford, UK). <i>Hydrogeology Journal</i> , 2015, 23, 775-787.	0.9	15
52	Emerging contaminants in urban groundwater sources in Africa. <i>Water Research</i> , 2015, 72, 51-63.	5.3	243
53	A model of potential carbon dioxide efflux from surface water across England and Wales using headwater stream survey data and landscape predictors. <i>Biogeosciences</i> , 2014, 11, 1911-1925.	1.3	9
54	Groundwater, flooding and hydrological functioning in the Findhorn floodplain, Scotland. <i>Hydrology Research</i> , 2014, 45, 755-773.	1.1	17

#	ARTICLE	IF	CITATIONS
55	Microbial communities in UK aquifers: current understanding and future research needs. Quarterly Journal of Engineering Geology and Hydrogeology, 2014, 47, 145-157.	0.8	17
56	Phosphate oxygen isotopes within aquatic ecosystems: Global data synthesis and future research priorities. Science of the Total Environment, 2014, 496, 563-575.	3.9	64
57	Using $^{18}\text{O}$ , $^2\text{H}$ , $^3\text{H}$ , $^3\text{He}$ , $^{85}\text{Kr}$ and CFCs to determine mean residence times and water origin in the Grazer and Leibnitzer Feld groundwater bodies (Austria). Applied Geochemistry, 2014, 50, 150-163.	1.4	21
58	Groundwater conceptual models: implications for evaluating diffuse pollution mitigation measures. Quarterly Journal of Engineering Geology and Hydrogeology, 2014, 47, 65-80.	0.8	25
59	Nitrogen sources, transport and processing in peri-urban floodplains. Science of the Total Environment, 2014, 494-495, 28-38.	3.9	53
60	Instream and riparian implications of weed cutting in a chalk river. Ecological Engineering, 2014, 71, 290-300.	1.6	29
61	Derivation of lowland riparian wetland deposit architecture using geophysical image analysis and interface detection. Water Resources Research, 2014, 50, 5886-5905.	1.7	41
62	Geoelectrical Monitoring of Complex Hydrological Processes in a Riparian Wetland. , 2014, , .		1
63	Residence times of shallow groundwater in West Africa: implications for hydrogeology and resilience to future changes in climate. Hydrogeology Journal, 2013, 21, 673-686.	0.9	83
64	A combined geochemical and hydrological approach for understanding macronutrient sources. Journal of Hydrology, 2013, 500, 226-242.	2.3	12
65	Characterization of Suboxic Groundwater Colloids Using a Multi-method Approach. Environmental Science & Technology, 2013, 47, 2554-2561.	4.6	29
66	The nitrate time bomb: a numerical way to investigate nitrate storage and lag time in the unsaturated zone. Environmental Geochemistry and Health, 2013, 35, 667-681.	1.8	92
67	The practicalities of using CFCs and SF <sub>6</sub> for groundwater dating and tracing. Applied Geochemistry, 2012, 27, 1688-1697.	1.4	96
68	Prediction of the arrival of peak nitrate concentrations at the water table at the regional scale in Great Britain. Hydrological Processes, 2012, 26, 226-239.	1.1	81
69	The hydrochemistry of a Chalk aquifer during recovery from drought. Quarterly Journal of Engineering Geology and Hydrogeology, 2012, 45, 473-486.	0.8	9
70	A review of the impact of climate change on future nitrate concentrations in groundwater of the UK. Science of the Total Environment, 2011, 409, 2859-2873.	3.9	130
71	Understanding Phosphorus Mobility and Bioavailability in the Hyporheic Zone of a Chalk Stream. Water, Air, and Soil Pollution, 2011, 218, 213-226.	1.1	24
72	Interaction between groundwater, the hyporheic zone and a Chalk stream: a case study from the River Lambourn, UK. Hydrogeology Journal, 2010, 18, 1125-1141.	0.9	40

#	ARTICLE	IF	CITATIONS
73	Groundwater residence time and movement in the Maltese islands – A geochemical approach. Applied Geochemistry, 2010, 25, 609-620.	1.4	35
74	Using environmental tracers to assess the extent of river-groundwater interaction in a quarried area of the English Chalk. Applied Geochemistry, 2010, 25, 923-932.	1.4	18
75	Understanding groundwater, surface water, and hyporheic zone biogeochemical processes in a Chalk catchment using fluorescence properties of dissolved and colloidal organic matter. Journal of Geophysical Research, 2009, 114, .	3.3	52
76	Tracing groundwater flow and sources of organic carbon in sandstone aquifers using fluorescence properties of dissolved organic matter (DOM). Applied Geochemistry, 2008, 23, 3384-3390.	1.4	70
77	Introduction to the Nitrate in Groundwater papers. Quarterly Journal of Engineering Geology and Hydrogeology, 2007, 40, 333-333.	0.8	6
78	<sup>87</sup> Sr/ <sup>86</sup> Sr as an indicator of flowpaths and weathering rates in the Plynlimon experimental catchments, Wales, U.K.. Chemical Geology, 2007, 236, 247-265.	1.4	61
79	A rapid method for determining apparent diffusion coefficients in Chalk and other consolidated porous media. Journal of Hydrology, 2007, 343, 97-103.	2.3	10
80	Assessing the applicability of global CFC and SF <sub>6</sub> input functions to groundwater dating in the UK. Science of the Total Environment, 2007, 387, 353-362.	3.9	25
81	The significance of colloids in the transport of pesticides through Chalk. Science of the Total Environment, 2007, 385, 262-271.	3.9	24
82	Source and persistence of pesticides in a semi-confined chalk aquifer of southeast England. Environmental Pollution, 2006, 144, 1031-1044.	3.7	96
83	The hydrogeochemistry of methane: Evidence from English groundwaters. Chemical Geology, 2006, 229, 293-312.	1.4	77
84	Using chlorofluorocarbons (CFCs) and sulphur hexafluoride (SF <sub>6</sub> ) to characterise groundwater movement and residence time in a lowland Chalk catchment. Journal of Hydrology, 2006, 330, 44-52.	2.3	122
85	Pesticides in groundwater: some observations on temporal and spatial trends. Water and Environment Journal, 2006, 20, 55-64.	1.0	46
86	A Field and Modeling Study to Determine Pesticide Occurrence in a Public Water Supply in Northern England, UK. Ground Water Monitoring and Remediation, 2006, 26, 128-136.	0.6	11
87	Assessing the extent of induced leakage to an urban aquifer using environmental tracers: an example from Bishkek, capital of Kyrgyzstan, Central Asia. Hydrogeology Journal, 2006, 14, 225-243.	0.9	37
88	Assessing the impact of modern recharge on a sandstone aquifer beneath a suburb of Doncaster, UK. Hydrogeology Journal, 2006, 14, 979-997.	0.9	34
89	Impacts of climate change on the fate and behaviour of pesticides in surface and groundwater – a UK perspective. Science of the Total Environment, 2006, 369, 163-177.	3.9	278
90	Controls on dense non-aqueous-phase liquid transport in Permo-Triassic sandstones, UK. Geological Society Special Publication, 2006, 263, 253-264.	0.8	0

#	ARTICLE	IF	CITATIONS
91	GROUNDWATER AGE INDICATORS FROM PUBLIC SUPPLIES TAPPING THE CHALK AQUIFER OF SOUTHERN ENGLAND. <i>Water and Environment Journal</i> , 2005, 19, 30-40.	1.0	25
92	USE OF GROUNDWATER AGE INDICATORS IN RISK ASSESSMENT TO AID WATER SUPPLY OPERATIONAL PLANNING. <i>Water and Environment Journal</i> , 2005, 19, 41-48.	1.0	13
93	The potential for methane emissions from groundwaters of the UK. <i>Science of the Total Environment</i> , 2005, 339, 117-126.	3.9	42
94	Hydrochemical heterogeneity in an upland catchment: further characterisation of the spatial, temporal and depth variations in soils, streams and groundwaters of the Plynlimon forested catchment, Wales. <i>Hydrology and Earth System Sciences</i> , 2005, 9, 621-644.	1.9	59
95	Pesticide fate and behaviour in the UK Chalk aquifer, and implications for groundwater quality. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 2005, 38, 65-81.	0.8	23
96	Pesticide pollution of the Triassic Sandstone aquifer of South Yorkshire. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 2005, 38, 53-63.	0.8	14
97	Mapping the risk to groundwater resources from farm waste stores in England and Wales. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 2004, 37, 293-300.	0.8	4
98	Changes in Interfacial Tension of Chlorinated Solvents following Flow through U.K. Soils and Shallow Aquifer Material. <i>Environmental Science &amp; Technology</i> , 2003, 37, 1919-1925.	4.6	12
99	MOVEMENT OF LEACHATE FROM BENEATH TURKEY LITTER SITED OVER CHALK IN SOUTHERN ENGLAND. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2002, 37, 81-91.	0.7	5
100	Redox-driven changes in porewater chemistry in the unsaturated zone of the chalk aquifer beneath unlined cattle slurry lagoons. <i>Applied Geochemistry</i> , 2002, 17, 903-921.	1.4	45
101	A field study to assess the degradation and transport of diuron and its metabolites in a calcareous soil. <i>Science of the Total Environment</i> , 2002, 297, 67-83.	3.9	102
102	Towards a better understanding of tetrachloroethene entry pressure in the matrix of Permo-Triassic sandstones. <i>Journal of Contaminant Hydrology</i> , 2002, 59, 247-265.	1.6	11
103	Wettability Changes in Trichloroethylene-Contaminated Sandstone. <i>Environmental Science &amp; Technology</i> , 2001, 35, 1504-1510.	4.6	64
104	Trihalomethane formation potential: a tool for detecting non-specific organic groundwater contamination. <i>Urban Water</i> , 2001, 3, 173-184.	0.5	15
105	Assessing Herbicide Concentrations In the Saturated and Unsaturated Zone of a Chalk Aquifer in Southern England. <i>Ground Water</i> , 2001, 39, 262-271.	0.7	27
106	Penetration of herbicides to groundwater in an unconfined chalk aquifer following normal soil applications. <i>Journal of Contaminant Hydrology</i> , 2001, 53, 101-117.	1.6	70
107	Metal ion geochemistry in smelter impacted soils and soil solutions. <i>Bulletin - Societe Geologique De France</i> , 2001, 172, 539-548.	0.9	29
108	Field and modelling studies to assess the risk to UK groundwater from earth-based stores for livestock manure. <i>Soil Use and Management</i> , 2001, 17, 128-137.	2.6	16

#	ARTICLE	IF	CITATIONS
109	Groundwater evolution beneath Hat Yai, a rapidly developing city in Thailand. <i>Hydrogeology Journal</i> , 2000, 8, 564-575.	0.9	58
110	Title is missing!. <i>Water, Air, and Soil Pollution</i> , 1998, 107, 51-72.	1.1	27
111	Metal ion binding by natural organic matter: From the model to the field. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 2503-2513.	1.6	229
112	Field-based partition coefficients for trace elements in soil solutions. <i>European Journal of Soil Science</i> , 1995, 46, 265-285.	1.8	120