

# Matthew J Currell

## List of Publications by Year in descending order

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Version: 2024-02-01

62  
papers

3,121  
citations

172207

29  
h-index

155451

55  
g-index

63  
all docs

63  
docs citations

63  
times ranked

3131  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microplastic contamination of an unconfined groundwater aquifer in Victoria, Australia. <i>Science of the Total Environment</i> , 2022, 802, 149727.	3.9	100
2	Review of drivers and threats to coastal groundwater quality in China. <i>Science of the Total Environment</i> , 2022, 806, 150913.	3.9	60
3	Novel molecular tracers for the assessment of groundwater pollution. <i>Current Opinion in Environmental Science and Health</i> , 2022, 26, 100331.	2.1	2
4	The Variation in Groundwater Microbial Communities in an Unconfined Aquifer Contaminated by Multiple Nitrogen Contamination Sources. <i>Water (Switzerland)</i> , 2022, 14, 613.	1.2	3
5	Using corporate sustainability reporting to assess the environmental footprint of titanium and zirconium mining. <i>The Extractive Industries and Society</i> , 2022, 9, 101034.	0.7	5
6	Screening of Atrazine Distribution in Groundwater and Modeling of Leaching Potential to the Unconfined Aquifer in the Pampean Plain of Cordoba, Argentina. <i>Environmental Processes</i> , 2022, 9, .	1.7	3
7	Fault-controlled springs: A review. <i>Earth-Science Reviews</i> , 2022, 230, 104058.	4.0	10
8	Enhancing Access to Safe Drinking Water in Remote Fijian Communities: Modeling and Implementing a Pilot Rain-Rank Disinfection Program. <i>Environmental Engineering Science</i> , 2021, 38, 430-442.	0.8	8
9	Nitrogen contamination and bioremediation in groundwater and the environment: A review. <i>Earth-Science Reviews</i> , 2021, 222, 103816.	4.0	29
10	Controls on distributions of sulphate, fluoride, and salinity in aquitard porewater from the North China Plain: Long-term implications for groundwater quality. <i>Journal of Hydrology</i> , 2021, 603, 126828.	2.3	28
11	Using multiple lines of evidence to map groundwater recharge in a rapidly urbanising catchment: Implications for future land and water management. <i>Journal of Hydrology</i> , 2020, 580, 124265.	2.3	20
12	A review of the use of radiocarbon to estimate groundwater residence times in semi-arid and arid areas. <i>Journal of Hydrology</i> , 2020, 580, 124247.	2.3	39
13	Environmental isotopes as indicators of groundwater recharge, residence times and salinity in a coastal urban redevelopment precinct in Australia. <i>Hydrogeology Journal</i> , 2020, 28, 503-520.	0.9	14
14	Groundwater Salinization and Flushing During Glacial-Interglacial Cycles: Insights From Aquitard Porewater Tracer Profiles in the North China Plain. <i>Water Resources Research</i> , 2020, 56, e2020WR027879.	1.7	23
15	Adaptive management in groundwater planning and development: A review of theory and applications. <i>Journal of Hydrology</i> , 2020, 586, 124871.	2.3	31
16	Nitrogen stock and leaching rates in a thick vadose zone below areas of long-term nitrogen fertilizer application in the North China Plain: A future groundwater quality threat. <i>Journal of Hydrology</i> , 2019, 576, 28-40.	2.3	59
17	A framework and simple decision support tool for groundwater contamination assessment in an urban redevelopment precinct. <i>Hydrogeology Journal</i> , 2019, 27, 1911-1928.	0.9	3
18	Incorporating perfluoroalkyl acids (PFAA) into a geochemical index for improved delineation of legacy landfill impacts on groundwater. <i>Science of the Total Environment</i> , 2019, 666, 1198-1208.	3.9	19

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19	Contamination of groundwater with per- and polyfluoroalkyl substances (PFAS) from legacy landfills in an urban re-development precinct. <i>Environmental Pollution</i> , 2019, 248, 101-113.	3.7	150
20	Delineation of contaminant sources and denitrification using isotopes of nitrate near a wastewater treatment plant in peri-urban settings. <i>Science of the Total Environment</i> , 2019, 651, 2701-2711.	3.9	32
21	Is the global public willing to drink recycled water? A review for researchers and practitioners. <i>Utilities Policy</i> , 2019, 56, 53-61.	2.1	43
22	Reactive transport model for predicting arsenic transport in groundwater system in Datong Basin. <i>Journal of Geochemical Exploration</i> , 2018, 190, 245-252.	1.5	7
23	Combination of CFCs and stable isotopes to characterize the mechanism of groundwater-surface water interactions in a headwater basin of the North China Plain. <i>Hydrological Processes</i> , 2018, 32, 1571-1587.	1.1	10
24	Predicting external water pressure and cracking of a tunnel lining by measuring water inflow rate. <i>Tunnelling and Underground Space Technology</i> , 2018, 71, 115-125.	3.0	29
25	Contaminants of Emerging Concern as novel groundwater tracers for delineating wastewater impacts in urban and peri-urban areas. <i>Water Research</i> , 2018, 146, 118-133.	5.3	99
26	Delineating multiple salinization processes in a coastal plain aquifer, northern China: hydrochemical and isotopic evidence. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 3473-3491.	1.9	52
27	Investigating recycled water use as a diffuse source of per- and polyfluoroalkyl substances (PFASs) to groundwater in Melbourne, Australia. <i>Science of the Total Environment</i> , 2018, 644, 1409-1417.	3.9	70
28	A method for separation of heavy metal sources in urban groundwater using multiple lines of evidence. <i>Environmental Pollution</i> , 2018, 241, 787-799.	3.7	25
29	Reply to Harrington et al.'s Comment on "Drawdown Triggers": A Misguided Strategy for Protecting Groundwater-Fed Streams and Springs, by Matthew J. Currell, 2016, v. 54, no. 5: 619-622. <i>Ground Water</i> , 2017, 55, 154-154.	0.7	0
30	Cultivating hope for a better future: research contributions from young scholars in earth and environmental sciences. <i>Environmental Science and Pollution Research</i> , 2017, 24, 13149-13153.	2.7	3
31	Problems with the application of hydrogeological science to regulation of Australian mining projects: Carmichael Mine and Doongmabulla Springs. <i>Journal of Hydrology</i> , 2017, 548, 674-682.	2.3	31
32	The Global Drain: Why China's Water Pollution Problems Should Matter to the Rest of the World. <i>Environment</i> , 2017, 59, 16-29.	0.8	15
33	Persistent organic pollutants in China's surface water systems. <i>Science of the Total Environment</i> , 2017, 580, 602-625.	3.9	148
34	A review of radioactive isotopes and other residence time tracers in understanding groundwater recharge: Possibilities, challenges, and limitations. <i>Journal of Hydrology</i> , 2017, 555, 797-811.	2.3	115
35	Alterations to groundwater recharge due to anthropogenic landscape change. <i>Journal of Hydrology</i> , 2017, 554, 545-557.	2.3	98
36	Decoupling of solutes and water in regional groundwater systems: The Murray Basin, Australia. <i>Chemical Geology</i> , 2017, 466, 466-478.	1.4	13

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37	Relationship between land-use and sources and fate of nitrate in groundwater in a typical recharge area of the North China Plain. <i>Science of the Total Environment</i> , 2017, 609, 607-620.	3.9	107
38	Geochemical indicators of the origins and evolution of methane in groundwater: Gippsland Basin, Australia. <i>Environmental Science and Pollution Research</i> , 2017, 24, 13168-13183.	2.7	23
39	Identification of anthropogenic and natural inputs of sulfate into a karstic coastal groundwater system in northeast China: evidence from major ions, $\delta^{34}\text{S}$ and $\delta^{33}\text{S}$ and $\delta^{34}\text{S}$ and $\delta^{33}\text{S}$ . <i>Hydrology and Earth System Sciences</i> , 2016, 20, 1983-1999.	1.9	27
40	Drawdown "Triggers": A Misguided Strategy for Protecting Groundwater Fed Streams and Springs. <i>Ground Water</i> , 2016, 54, 619-622.	0.7	20
41	Deep challenges for China's war on water pollution. <i>Environmental Pollution</i> , 2016, 218, 1222-1233.	3.7	337
42	Revised conceptualization of the North China Basin groundwater flow system: Groundwater age, heat and flow simulations. <i>Journal of Asian Earth Sciences</i> , 2016, 127, 119-136.	1.0	24
43	A New Assessment Framework for Transience in Hydrogeological Systems. <i>Ground Water</i> , 2016, 54, 4-14.	0.7	32
44	Marine water from mid-Holocene sea level highstand trapped in a coastal aquifer: Evidence from groundwater isotopes, and environmental significance. <i>Science of the Total Environment</i> , 2016, 544, 995-1007.	3.9	40
45	Stable isotopes as indicators of water and salinity sources in a southeast Australian coastal wetland: identifying relict marine water, and implications for future change. <i>Hydrogeology Journal</i> , 2015, 23, 235-248.	0.9	19
46	Editors' Message: The 2014 Editors' Choice articles and the 2014 "Coolest Paper" award. <i>Hydrogeology Journal</i> , 2015, 23, 215-216.	0.9	0
47	Effects of short-term flooding on arsenic transport in groundwater system: A case study of the Datong Basin. <i>Journal of Geochemical Exploration</i> , 2015, 158, 1-9.	1.5	19
48	Chemical and isotopic constraints on evolution of groundwater salinization in the coastal plain aquifer of Laizhou Bay, China. <i>Journal of Hydrology</i> , 2014, 508, 12-27.	2.3	175
49	Evaluation of the impact of an uncontrolled landfill on surrounding groundwater quality, Zhoukou, China. <i>Journal of Geochemical Exploration</i> , 2014, 136, 24-39.	1.5	79
50	Editors' Message: The 2013 Editors' Choice articles, a new editor, and the 2013 "Coolest Paper" award. <i>Hydrogeology Journal</i> , 2014, 22, 293-294.	0.9	0
51	Mega-scale groundwater quality challenges and the need for an inter-disciplinary approach. <i>Hydrogeology Journal</i> , 2014, 22, 745-748.	0.9	6
52	Analysis of environmental isotopes in groundwater to understand the response of a vulnerable coastal aquifer to pumping: Western Port Basin, south-eastern Australia. <i>Hydrogeology Journal</i> , 2013, 21, 1413-1427.	0.9	19
53	Using chlorofluorocarbons (CFCs) and tritium to improve conceptual model of groundwater flow in the South Coast Aquifers of Laizhou Bay, China. <i>Hydrological Processes</i> , 2012, 26, 3614-3629.	1.1	66
54	Sustainability of groundwater usage in northern China: dependence on palaeowaters and effects on water quality, quantity and ecosystem health. <i>Hydrological Processes</i> , 2012, 26, 4050-4066.	1.1	98

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55	Controls on elevated fluoride and arsenic concentrations in groundwater from the Yuncheng Basin, China. <i>Applied Geochemistry</i> , 2011, 26, 540-552.	1.4	192
56	A survey of groundwater levels and hydrogeochemistry in irrigated fields in the Karamay Agricultural Development Area, northwest China: Implications for soil and groundwater salinity resulting from surface water transfer for irrigation. <i>Journal of Hydrology</i> , 2011, 405, 217-234.	2.3	83
57	Major-ion chemistry, $\delta^{13}\text{C}$ and $^{87}\text{Sr}/^{86}\text{Sr}$ as indicators of hydrochemical evolution and sources of salinity in groundwater in the Yuncheng Basin, China. <i>Hydrogeology Journal</i> , 2011, 19, 835-850.	0.9	35
58	Recharge history and controls on groundwater quality in the Yuncheng Basin, north China. <i>Journal of Hydrology</i> , 2010, 385, 216-229.	2.3	96
59	Evaluation of groundwater hydrochemical characteristics and mixing behavior in the Daying and Qicun geothermal systems, Xinzhou Basin. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 189, 92-104.	0.8	102
60	Environmental isotopic and hydrochemical characteristics of groundwater systems in Daying and Qicun geothermal fields, Xinzhou Basin, Shanxi, China. <i>Hydrological Processes</i> , 2010, 24, 3157-3176.	1.1	34
61	Hydrogeochemical Indicators of Groundwater Flow Systems in the Yangwu River Alluvial Fan, Xinzhou Basin, Shanxi, China. <i>Environmental Management</i> , 2009, 44, 243-255.	1.2	59
62	Sensitive and ultra-fast determination of arsenic(III) by gas-diffusion flow injection analysis with chemiluminescence detection. <i>Analytica Chimica Acta</i> , 2007, 583, 72-77.	2.6	33