L Niel Plummer

List of Publications by Year
in descending order

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42 papers	3,916 citations	186265 28 h-index	276875 41 g-index
42 all docs	42 docs citations	42 times ranked	2818 citing authors

#	Article	IF	Citations
1	Use of chlorofluorocarbons (CCl3F and CCl2F2) as hydrologic tracers and age-dating tools: The alluvium and terrace system of central Oklahoma. Water Resources Research, 1992, 28, 2257-2283.	4.2	430
2	Geochemical Modeling of the Madison Aquifer in Parts of Montana, Wyoming, and South Dakota. Water Resources Research, 1990, 26, 1981-2014.	4.2	352
3	Kinetic and thermodynamic factors controlling the distribution of SO32â˜ and Na+ in calcites and selected aragonites. Geochimica Et Cosmochimica Acta, 1985, 49, 713-725.	3.9	311
4	Dating young groundwater with sulfur hexafluoride: Natural and anthropogenic sources of sulfur hexafluoride. Water Resources Research, 2000, 36, 3011-3030.	4.2	293
5	Geochemistry and the understanding of ground-water systems. Hydrogeology Journal, 2005, 13, 263-287.	2.1	196
6	Dating of shallow groundwater: Comparison of the transient tracers3H/3He, chlorofluorocarbons, and85Kr. Water Resources Research, 1994, 30, 1693-1708.	4.2	187
7	Thermodynamics of magnesian calcite solid-solutions at 25Â°C and 1 atm total pressure. Geochimica Et Cosmochimica Acta, 1989, 53, 1189-1208.	3.9	175
8	Process and rate of dedolomitization: Mass transfer and 14C dating in a regional carbonate aquifer. Bulletin of the Geological Society of America, 1983, 94, 1415.	3.3	165
9	The use of simulation and multiple environmental tracers to quantify groundwater flow in a shallow aquifer. Water Resources Research, 1994, 30, 421-433.	4.2	156
10	Revised Chemical Equilibrium Data for Major Waterâ€"Mineral Reactions and Their Limitations. ACS Symposium Series, 1990, , 398-413.	0.5	153
11	Geochemical significance of groundwater discharge and carbonate solution to the formation of Caleta Xel Ha, Quintana Roo, Mexico. Water Resources Research, 1979, 15, 1521-1535.	4.2	139
12	Estimating14C Groundwater Ages in a Methanogenic Aquifer. Water Resources Research, 1995, 31, 2307-2317.	4.2	103
13	The Geochemical Evolution of Riparian Ground Water in a Forested Piedmont Catchment. Ground Water, 2003, 41, 913-925.	1.3	88
14	Revision of Fontes & Garnier's model for the initial 14C content of dissolved inorganic carbon used in groundwater dating. Chemical Geology, 2013, 351, 105-114.	3.3	83
15	Application of environmental tracers to mixing, evolution, and nitrate contamination of ground water in Jeju Island, Korea. Journal of Hydrology, 2006, 327, 258-275.	5.4	78
16	Testing mixing models of old and young groundwater in a tropical lowland rain forest with environmental tracers. Water Resources Research, 2010, 46, .	4.2	76
17	Chemical Evolution of Groundwater Near a Sinkhole Lake, Northern Florida: 1. Flow Patterns, Age of Groundwater, and Influence of Lake Water Leakage. Water Resources Research, 1995, 31, 1549-1564.	4.2	73
18	Hydrochemical tracers in the middle Rio Grande Basin, USA: 2. Calibration of a groundwater-flow model. Hydrogeology Journal, 2004, 12, 389.	2.1	73

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19	Evolution of groundwater age in a mountain watershed over a period of thirteen years. Journal of Hydrology, 2012, 460-461, 13-28.	5.4	70
20	Perchlorate in Pleistocene and Holocene Groundwater in North-Central New Mexico. Environmental Science & Technology, 2006, 40, 1757-1763.	10.0	69
21	A graphical method to evaluate predominant geochemical processes occurring in groundwater systems for radiocarbon dating. Chemical Geology, 2012, 318-319, 88-112.	3.3	67
22	Chlorofluorocarbons. , 2000, , 441-478.		61
23	Evidence for terrigenic SF6 in groundwater from basaltic aquifers, Jeju Island, Korea: Implications for groundwater dating. Journal of Hydrology, 2007, 339, 93-104.	5.4	61
24	Dating groundwater with trifluoromethyl sulfurpentafluoride (SF₅CF₃), sulfur hexafluoride (SF₆), CF₃Cl (CFCâ€13), and CF₂Cl₂ (CFCâ€12). Water Resources Research, 2008, 44, .	4.2	54
25	Hydrochemical tracers in the middle Rio Grande Basin, USA: 1. Conceptualization of groundwater flow. Hydrogeology Journal, 2004, 12, 359.	2.1	53
26	Chemical Evolution of Groundwater Near a Sinkhole Lake, Northern Florida: 2. Chemical Patterns, Mass Transfer Modeling, and Rates of Mass Transfer Reactions. Water Resources Research, 1995, 31, 1565-1584.	4.2	45
27	NETPATH-WIN: An Interactive User Version of the Mass-Balance Model, NETPATH. Ground Water, 2011, 49, 593-599.	1.3	38
28	Influence of Fracture Anisotropy on Ground Water Ages and Chemistry, Valley and Ridge Province, Pennsylvania. Ground Water, 2002, 40, 242-257.	1.3	37
29	Title is missing!. Aquatic Geochemistry, 2000, 6, 257-274.	1.3	33
30	Transport and Time Lag of Chlorofluorocarbon Gases in the Unsaturated Zone, Rabis Creek, Denmark. Vadose Zone Journal, 2004, 3, 1249-1261.	2.2	27
31	Historical trends in occurrence and atmospheric inputs of halogenated volatile organic compounds in untreated ground water used as a source of drinking water. Science of the Total Environment, 2004, 321, 201-217.	8.0	26
32	Low-Level Detections of Halogenated Volatile Organic Compounds in Groundwater: Use in Vulnerability Assessments. Journal of Hydrologic Engineering - ASCE, 2008, 13, 1049-1068.	1.9	26
33	The curved 14 C vs. Î´ 13 C relationship in dissolved inorganic carbon: A useful tool for groundwater age- and geochemical interpretations. Chemical Geology, 2014, 387, 111-125.	3.3	25
34	Comparison of age distributions estimated from environmental tracers by using binary-dilution and numerical models of fractured and folded karst: Shenandoah Valley of Virginia and West Virginia, USA. Hydrogeology Journal, 2013, 21, 1193-1217.	2.1	21
35	A rapid method for the measurement of sulfur hexafluoride (SF₆), trifluoromethyl sulfur pentafluoride (SF₅CF₃), and Halon 1211 (CF₂ClBr) in hydrologic tracer studies. Geochemistry, Geophysics, Geosystems, 2010, 11, .	2.5	17
36	Tracing groundwater with low-level detections of halogenated VOCs in a fractured carbonate-rock aquifer, Leetown Science Center, West Virginia, USA. Applied Geochemistry, 2013, 33, 260-280.	3.0	11

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37	A 17-Year Record of Environmental Tracers in Spring Discharge, Shenandoah National Park, Virginia, USA: Use of Climatic Data and Environmental Conditions to Interpret Discharge, Dissolved Solutes, and Tracer Concentrations. Aquatic Geochemistry, 2014, 20, 267-290.	1.3	10
38	Using geochemical data and aquifer simulation to characterize recharge and groundwater flow in the Middle Rio Grande Basin, New Mexico. Water Science and Application, 2004, , 185-216.	0.3	10
39	Origin of halite brine in the Onondaga Trough near Syracuse, New York State, USA: modeling geochemistry and variable-density flow. Hydrogeology Journal, 2007, 15, 1321-1339.	2.1	9
40	Measurements of HFC-134a and HCFC-22 in groundwater and unsaturated-zone air: Implications for HFCs and HCFCs as dating tracers. Chemical Geology, 2014, 385, 117-128.	3.3	7
41	Using dualâ€domain advectiveâ€transport simulation to reconcile multipleâ€tracer ages and estimate dualâ€porosity transport parameters. Water Resources Research, 2017, 53, 5002-5016.	4.2	7
42	Process and rate of dedolomitization: Mass transfer and 14C dating in a regional carbonate aquifer: Extended interpretation and reply. Bulletin of the Geological Society of America, 1985, 96, 1098.	3.3	1