



## Hydrogeology Journal – Editors’ Choice Articles

The International Association of Hydrogeologists (IAH) is a scientific and educational charitable organisation for scientists, engineers, water managers and other professionals working in the fields of groundwater resource planning, management and protection. *Hydrogeology Journal* is the official journal of IAH.

“Editors’ Choice” articles are selected for special attention by the Hydrogeology Journal editorial team, for any of several good reasons including: outstanding science, innovative approach, potentially important conclusions, interesting field area or phenomenon, unusual topic, political/social/historical/philosophical interest, etc. At the conclusion of each publishing year, the Editors select up to five articles from among the year’s crop of about 150 peer-reviewed published articles. All articles selected since the start of the scheme (2010) are listed here.

Author(s)	Title	Vol/No, pages DOI
<b>2016</b>		
Guillaume Attard, Thierry Winiarski, Yvan Rossier, Laurent Eisenlohr	Review: Impact of underground structures on the flow of urban groundwater	24/1, 5–19 DOI 10.1007/s10040-015-1317-3
Owen Powell, Rod Fensham	The history and fate of the Nubian Sandstone Aquifer springs in the oasis depressions of the Western Desert, Egypt	24/2, 395–406 DOI 10.1007/s10040-015-1335-1
Laurence R. Bentley, Masaki Hayashi, Elena P. Zimmerman, Chris Holmden, Lynn I. Kelley	Geologically controlled bi-directional exchange of groundwater with a hypersaline lake in the Canadian prairies	24/4, 877–892 DOI 10.1007/s10040-016-1368-0
Vijay Bhusari, Y. B. Katpatal, Pradeep Kundal	An innovative artificial recharge system to enhance groundwater storage in basaltic terrain: example from Maharashtra, India	24/5, 1273–1286 DOI 10.1007/s10040-016-1387-x
Bruno Figueiredo, Chin-Fu Tsang, Auli Niemi, Georg Lindgren	Review: The state-of-art of sparse channel models and their applicability to performance assessment of radioactive waste repositories in fractured crystalline formations	24/7, 1607–1622 DOI: 10.1007/s10040-016-1415-x
<b>2015</b>		
J. F. Devlin	HydrogeoSieveXL: an Excel-based tool to estimate hydraulic conductivity from grain-size analysis	23/4, 837-844 DOI 10.1007/s10040-015-1255-0
Brian D. Smerdon, Chris Turnadge	Considering the potential effect of faulting on regional-scale groundwater flow: an illustrative example from Australia’s Great Artesian Basin	23/5, 949-960 DOI 10.1007/s10040-015-1248-z
Zahra Jamshidzadeh, Frank T. -C. Tsai, Hasan Ghasemzadeh, Seyed Ahmad Mirbagheri, Majid Tavangari Barzi, Jeffrey S. Hanor	Dispersive thermohaline convection near salt domes: a case at Napoleonville Dome, southeast Louisiana, USA	23/5, 983-998 DOI 10.1007/s10040-015-1251-4
Josué Medellín-Azuara, Duncan MacEwan, Richard E. Howitt, George Koruakos, Emin C. Dogrul, Charles F. Brush, Tariq N. Kadir, Thomas Harter, Forrest Melton, Jay R. Lund	Hydro-economic analysis of groundwater pumping for irrigated agriculture in California’s Central Valley, USA	23/6, 1205-1216 DOI 10.1007/s10040-015-1283-9
Heather A. Sheldon, Peter M. Schaub, Praveen K. Rachakonda, Michael G. Trefry, Lynn B. Reid, Daniel R. Lester, Guy Metcalfe, Thomas Poulet, Klaus Regenauer-Lieb	Groundwater cooling of a supercomputer in Perth, Western Australia: hydrogeological simulations and thermal sustainability	23/8, 1831-1849 DOI 10.1007/s10040-015-1280-z

2014		
Alan L. Mayo, Scott A. Himes, David G. Tingey	Self-organizing thermal fluid flow in fractured crystalline rock: a geochemical and theoretical approach to evaluating fluid flow in the southern Idaho batholith, USA	22/1, 25-45 DOI 10.1007/s10040-013-1071-3
A. Vandenbohede, E. Vandevyvere	Potable water for a city: a historic perspective from Bruges, Belgium	22/7, 1669-1680 DOI 10.1007/s10040-014-1154-9
Jean-Christophe Comte, Jean-Lambert Join, Olivier Banton, Eric Nicolini	Modelling the response of fresh groundwater to climate and vegetation changes in coral islands	22/8, 1905-1920 DOI 10.1007/s10040-014-1160-y
Thomas M. Missimer, Christiane Hoppe-Jones, Khan Z. Jadoon, Dong Li, Samir K. Al-Mashharawi	Hydrogeology, water quality, and microbial assessment of a coastal alluvial aquifer in western Saudi Arabia: potential use of coastal wadi aquifers for desalination water supplies	22/8, 1921-1934 DOI 10.1007/s10040-014-1168-3
Teppo Arola, Kirsti Korkka-Niemi	The effect of urban heat islands on geothermal potential: examples from Quaternary aquifers in Finland	22/8, 1953-1967 DOI 10.1007/s10040-014-1174-5
2013		
Guodong Cheng, Huijun Jin	Permafrost and groundwater on the Qinghai-Tibet Plateau and in northeast China	21/1, 5-23 DOI 10.1007/s10040-012-0927-2
Suzanne A. Pierce, John M. Sharp, Jr., Joseph H. A. Guillaume, Robert E. Mace, David J. Eaton	Aquifer-yield continuum as a guide and typology for science-based groundwater management	21/2, 331-340 DOI 10.1007/s10040-012-0910-y
Jean-François Cornu, David Eme, Florian Malard	The distribution of groundwater habitats in Europe	21/5, 949-960 DOI 10.1007/s10040-013-0984-1
Richard M. Yager, L. Niel Plummer, Leon J. Kauffman, Daniel H. Doctor, David L. Nelms, Peter Schlosser	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	21/6, 1193-1217 DOI 10.1007/s10040-013-0997-9
Stephen Foster, Ricardo Hirata, Bartolomeo Andreo	The aquifer pollution vulnerability concept: aid or impediment in promoting groundwater protection?	21/7, 1389-1392 DOI 10.1007/s10040-013-1019-7
2012		
I.P. Holman, D.M. Allen, M.O. Cuthbert, P. Goderniaux	Towards best practice for assessing the impacts of climate change on groundwater	20/1, 1-4 DOI 10.1007/s10040-011-0805-3
A. Izady, K. Davary, A. Alizadeh, B. Ghahraman, M. Sadeghi, A. Moghaddamnia	Application of "panel-data" modeling to predict groundwater levels in the Neishaboor Plain, Iran	20/3, 435-447 DOI 10.1007/s10040-011-0814-2
A. Revil, M. Karaoulis, T. Johnson, A. Kemna	Review: Some low-frequency electrical methods for subsurface characterization and monitoring in hydrogeology	20/4, 617-658 DOI 10.1007/s10040-011-0819-x
J. Gillespie, S.T. Nelson, A.L. Mayo, D.G. Tingey	Why conceptual groundwater flow models matter: a trans-boundary example from the arid Great Basin, western USA	20/6, 1133-1147 DOI 10.1007/s10040-012-0848-0
François Henri Cornet	The relationship between seismic and aseismic motions induced by forced fluid injections	20/8, 1463-1466 DOI 10.1007/s10040-012-0901-z

2011		
Martin O. Saar	Review: Geothermal heat as a tracer of large-scale groundwater flow and as a means to determine permeability fields	19/1, 31-52 DOI: 10.1007/s10040-010-0657-2
Jean-Michel Lemieux	Review: The potential impact of underground geological storage of carbon dioxide in deep saline aquifers on shallow groundwater resources	19/4, 757-778 DOI: 10.1007/s10040-011-0715-4
P. B. McMahon, L. N. Plummer, J. K. Böhlke, S. D. Shapiro, S. R. Hinkle	A comparison of recharge rates in aquifers of the United States based on groundwater-age data	19/4, 779-800 DOI: 10.1007/s10040-011-0722-5
Yu Zhou, François Zwahlen, Yanxin Wang	The ancient Chinese notes on hydrogeology	19/5, 1103-1114 DOI 10.1007/s10040-010-0682-1
Jerome Perrin, Shakeel Ahmed, Daniel Hunkeler	The effects of geological heterogeneities and piezometric fluctuations on groundwater flow and chemistry in a hard-rock aquifer, southern India	19/6, 1189-1201 DOI: 10.1007/s10040-011-0745-y
2010		
Rory D. Henderson, Frederick D. Day-Lewis, Elena Abarca, Charles F. Harvey, Hanan N. Karam, Lanbo Liu, John W. Lane, Jr.	Marine electrical resistivity imaging of submarine groundwater discharge: sensitivity analysis and application in Waquoit Bay, Massachusetts, USA	18/1, 173-185 DOI 10.1007/s10040-009-0498-z
Lawrence D. Lemke, Joseph A. Cypher	Postaudit evaluation of conceptual model uncertainty for a glacial aquifer groundwater flow and contaminant transport model	18/4, 945-958 DOI 10.1007/s10040-009-0554-8
Nico Goldscheider, Judit Mádl-Szőnyi, Anita Eröss, Eva Schill	Review: Thermal water resources in carbonate rock aquifers	18/6, 1303-1318 DOI 10.1007/s10040-010-0611-3
Erick R. Burns, Larry R. Bentley, Rene Therrien, Clayton V. Deutsch	Upscaling facies models to preserve connectivity of designated facies	18/6, 1357-1373 DOI 10.1007/s10040-010-0607-z
Elizabeth J. Sreaton	Recent advances in subseafloor hydrogeology: focus on basement–sediment interactions, subduction zones, and continental slopes	18/7, 1547-1570 DOI 10.1007/s10040-010-0636-7

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