

## Curriculum Vitae



### **MICHAEL BERG, Ph.D.**

Head of Department of Water Resources and Drinking Water, Lecturer at ETH Zurich.

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### **EDUCATION**

**University of Karlsruhe, Germany, Institute of Mineralogy and Geochemistry, Research Center Environment**, Ph.D. in Natural Sciences, 2007.

**University of Applied Science, Winterthur, Switzerland, Department of Chemistry**, B.Sc. in Chemistry, 1987.

### **PROFESSIONAL EXPERIENCE**

**Eawag, Swiss Federal Institute of Aquatic Science & Technology**, Dübendorf, Switzerland, Water Resources and Drinking Water Department, Contaminant Hydrology Group, Head of Department (2014-present), Research Group Leader (2002-present).

**Curtin University and CSIRO**, Perth, Australia. Sabbatical year as Adjunct Professor (09.2013-07.2014)

**ETH Zurich**, Lecturer (2006-present).

**University of Karlsruhe**, Germany, Institute of Mineralogy and Geochemistry, Research Center Environment, Doctoral Fellow (2005-2007).

**Hanoi University of Science**, Vietnam, Scientific Advisor and Manager for the Swiss Agency for Development and Cooperation in Vietnam (1998-2008). Capacity Building in Environmental Science and Technology in Northern Vietnam.

**Swiss Federal Institute of Aquatic Science & Technology (EAWAG)**, Chemistry Department, Scientific Coworker, Environmental Inorganic Chemistry (1988-1991), Environmental Organic Chemistry (1992-1999).

### **RESEARCH INTERESTS**

- Occurrence, fate and behavior of organic and inorganic contaminants in aquatic environments.
- Geochemical and physical processes determining the mobility of contaminants.
- Development of methodologies involving compound-specific isotope analysis.
- Geogenic groundwater contamination.
- Surface water and drinking water pollution.

### **SELECTED ACTIVITIES**

**2015-to date** Manager of the Groundwater Assessment Platform ([www.gapmaps.org](http://www.gapmaps.org))

**2013–2014** Sabbatical stay as Adjunct Professor at Curtin University and CSIRO, Perth, Western Australia, October 2013–July 2014

**2013–2014** Guest Editor, *Science of the Total Environment*.

**2011** Co-organizer, International Conference on Arsenic in Groundwater in Southern Asia, Hanoi, Vietnam, November 2011

**2011** Organizing Committee, International Conference on Chemistry and the Environment (ICCE 2011), Zurich, Switzerland, September 2011.

**2008** Organizing Committee, National Workshop on Groundwater Arsenic Contamination in Vietnam, Hanoi University of Science, Hanoi, Vietnam, November 2008.

**2008** Co-organizer, Swiss National Symposium on Rehabilitation of Industrial Sites Contaminated by Chlorinated Solvents, May 2008, Bern, Switzerland.

**2007** Guest Editor, *Applied Geochemistry*.

**2007** Co-organizer, Joint Eawag/University of Manchester Workshop on “Arsenic in Southeast Asian Aquifers with emphasis on Cambodia and Vietnam”, Manchester, UK, October 2007.

**2006-to date** Lecturer at ETH Zurich, Department of Environmental Systems Science, Switzerland.

**1998-2008** Scientific Advisor and Manager for the Swiss Agency for Development and Cooperation in Vietnam (1998-2008). Capacity Building in Environmental Science and Technology in Northern Vietnam. Hanoi University of Science, Vietnam.

## AWARDS

**Aug 2013** Cover story of the journal "Science", combined with an international press conference organized by "Science" on our publication entitled *Groundwater arsenic contamination throughout China* (Rodriguez-Lado et al. 2013, Science. See [doi:10.1126/science.1237484](https://doi.org/10.1126/science.1237484))

**Jul 2008 & Jan 2011** Extensive media coverage by international press (including CNN, CBS, BBC) on our work on arsenic prediction in groundwaters in Southeast Asia (Winkel et al., Nature Geoscience 2008, and Winkel et al., PNAS 2011). See [doi:10.1073/pnas.1011915108](https://doi.org/10.1073/pnas.1011915108) and [doi:10.1038/ngeo254](https://doi.org/10.1038/ngeo254)

**2008** Medal of Honour for achievements in training and research in Vietnam, Ministry of Education and Training, Vietnam.

**2008** Publication Award, American Chemical Society, Environmental science 1st runner-up paper of the year 2007, "Carbon and Chlorine Isotope Effects During Abiotic Reductive Dechlorination of Polychlorinated Ethanes", *Environmental Science and Technology*. See [doi:10.1021/es087066v](https://doi.org/10.1021/es087066v)

**2006** Publication Award, American Chemical Society, Environmental technology top paper of the year 2005, "Bacterial Bioassay for Rapid and Accurate Analysis of Arsenic in Highly Variable Groundwater Samples", *Environmental Science and Technology*. See [doi:10.1021/es0626537](https://doi.org/10.1021/es0626537)

## PUBLICATIONS

Online list, Google Scholar <http://scholar.google.com/citations?user=keesbKYAAAAJ>

### 1. Peer-reviewed articles and book chapters

Harald Neidhardt, Lenny H.E. Winkel, Ralf Kaegi, Caroline Stengel, Pham T.K. Trang, Vi M. Lan, Pham H. Viet, **Michael Berg**. Insights into arsenic retention dynamics of Pleistocene aquifer sediments by in situ sorption experiments. *Water Research*, 129, **123–132** (2018). <http://doi.org/10.1016/j.watres.2017.11.018>. [dx.doi.org/10.1016/j.scitotenv.2017.07.211](https://dx.doi.org/10.1016/j.scitotenv.2017.07.211)

Bhasker Rathi, Adam J. Siade, Michael J. Donn, Lauren Helm, Ryan Morris, James A. Davis, **Michael Berg**, Henning Prommer. Multiscale Characterization and Quantification of Arsenic Mobilization and Attenuation During Injection of Treated Coal Seam Gas Coproduced Water into Deep Aquifers. *Water Resources Research*, 53(12), **10779–10801** (2017). <http://doi.org/10.1002/2017WR021240>

Christian Moeck, Dirk Radny, Andrea Popp, Matthias Brennwald, Sebastian Stoll, Adrian Auckenthaler, **Michael Berg**, Mario Schirmer. *Characterization of a managed aquifer recharge system using multiple tracers*. *Science of the Total Environment*, **609**, 701–714 (2017). [dx.doi.org/10.1016/j.scitotenv.2017.07.211](https://dx.doi.org/10.1016/j.scitotenv.2017.07.211)

Caroline M.C. de Meyer, Juan M. Rodríguez, Edward A. Carpio, Pilar A. García, Caroline Stengel, **Michael Berg\***. *Arsenic, manganese and aluminum contamination in groundwater resources of Western Amazonia (Peru)*. *Science of the Total Environment*, **607–608**, 1437–1450 (2017). [dx.doi.org/10.1016/j.scitotenv.2017.07.059](https://dx.doi.org/10.1016/j.scitotenv.2017.07.059)

Bas Vriens, Lenny H.E. Winkel, Ralf Kaegi, Andreas Voegelin, Stephan J. Hug, Andreas M. Buser, **Michael Berg\***. *Quantification of Element Fluxes in Wastewaters: A Nationwide Screening in Switzerland*. *Environmental Science & Technology*, **51**, 10943–10953 (2017). [dx.doi.org/10.1021/acs.est.7b01731](https://dx.doi.org/10.1021/acs.est.7b01731)  
ES&T Cover story, October 3, 2017: <http://pubs.acs.org/toc/esthag/51/19>

Joel E. Podgorski, Syed Ali M.A.S. Eqani, Tasawar Khanam, Rizwan Ullah, Heqing Shen, **Michael Berg\***. *Extensive arsenic contamination in high-pH unconfined aquifers in the Indus Valley*. *Science Advances*, **3**, e1700935 (2017). <http://advances.sciencemag.org/content/3/8/e1700935>

Christian Moeck, Dirk Radny, Adrian Auckenthaler, **Michael Berg**, Juliane Hollender, Mario Schirmer. *Estimating the spatial distribution of artificial groundwater recharge using multiple tracers*. *Isotopes in Environmental and Health Studies*, **53(5)**, 484–499 (2017). [dx.doi.org/10.1080/10256016.2017.1334651](https://dx.doi.org/10.1080/10256016.2017.1334651)

- Anja Bretzler, **Michael Berg**, Lenny Winkel, Manoucher Amini, Luis Rodriguez-Lado, Chansopheaktra Sovann, David A. Polya, Annette Johnson. *Geostatistical modelling of arsenic hazard in groundwater*. Book chapter in “Best Practice Guide on the Control of Arsenic in Drinking Water”, Eds. Prosun Bhattacharya, David A. Polya, Dragana Jovanovic. The International Water Association, IWA Publishing, London, UK (2017), pp. 153-160. [dx.doi.org/10.2166/9781780404929](https://doi.org/10.2166/9781780404929)
- Joey Rawson, Adam Siade, Jing Sun, Harald Neidhardt, **Michael Berg**, Henning Prommer. *Quantifying reactive transport processes governing arsenic mobility after injection of reactive organic carbon into a Bengal Delta aquifer*. Environmental Science & Technology, **51**, 8471–8480 (2017). [dx.doi.org/10.1021/acs.est.7b02097](https://doi.org/10.1021/acs.est.7b02097)
- Bhasker Rathi, Harald Neidhardt, **Michael Berg**, Adam Siade, Henning Prommer. *Processes governing arsenic retardation on Pleistocene sediments: Adsorption Experiments and Model-Based Analysis*. Water Resources Research, **53**, 4344–4360 (2017). [dx.doi.org/10.1002/2017WR020551](https://doi.org/10.1002/2017WR020551)
- Janet G. Hering, Ioannis A. Katsoyiannis, Gerardo Ahumada Theoduloz, **Michael Berg**, Stephan J. Hug. *Arsenic Removal from Drinking Water: Experiences with Technologies and Constraints in Practice*. Journal of Environmental Engineering ASCE, **143(5)**, 03117002, 1–9 (2017). [dx.doi.org/10.1061/\(ASCE\)EE.1943-7870.0001225](https://doi.org/10.1061/(ASCE)EE.1943-7870.0001225)
- Anja Bretzler, Franck Lalanne, Julien Nikiema, Joel Podgorski, Numa Pfenninger, **Michael Berg**, Mario Schirmer. *Groundwater arsenic contamination in Burkina Faso, West Africa: Predicting and verifying regions at risk*. Science of the Total Environment, **584–585**, 958–970 (2017). [dx.doi.org/10.1016/j.scitotenv.2017.01.147](https://doi.org/10.1016/j.scitotenv.2017.01.147)
- Elisabeth Eiche, **Michael Berg**, Sarah-Madeleine Hönig, Thomas Neumann, Vi Mai Lan, Thi Kim Trang Pham, Hung Viet Pham. *Origin and availability of organic matter leading to arsenic mobilisation in aquifers of the Red River Delta, Vietnam*. Applied Geochemistry, **77**, 184–193 (2017). [dx.doi.org/10.1016/j.apgeochem.2016.01.006](https://doi.org/10.1016/j.apgeochem.2016.01.006)
- Shanyun Wang, Dirk Radny, Shuangbing Huang, Linjie Zhuang, Siyan Zhao, **Michael Berg**, Mike S. M. Jetten, Guibing Zhu. *Nitrogen loss by anaerobic ammonium oxidation in unconfined aquifer soils*. Scientific Reports, **7**, Article number: 40173 (2017). <https://www.nature.com/articles/srep40173>
- Christian Moeck, Dirk Radny, Paul Borer, Judith Rothardt, Adrian Auckenthaler, **Michael Berg**, Mario Schirmer. *Multicomponent statistical analysis to identify flow and transport processes in a highly-complex environment*. Journal of Hydrology, **542**, 437–449 (2016). [doi:10.1016/j.jhydrol.2016.09.023](https://doi.org/10.1016/j.jhydrol.2016.09.023)
- Vidhya Chittoor Viswanathan, Yongjun Jiang, **Michael Berg**, Daniel Hunkeler, Mario Schirmer. *An integrated spatial snap-shot monitoring method for identifying seasonal changes and spatial changes in surface water quality*. Journal of Hydrology, **539**, 567–576 (2016). [doi:10.1016/j.jhydrol.2016.05.017](https://doi.org/10.1016/j.jhydrol.2016.05.017)
- Elisabeth Eiche, **Michael Berg**, Sarah-Madeleine Hönig, Thomas Neumann, Vi Mai Lan, Pham Thi Kim Trang, Pham Hung Viet. *Origin and availability of organic matter leading to arsenic mobilisation in aquifers of the Red River Delta, Vietnam*. Applied Geochemistry (Jan 2016). [doi:10.1016/j.apgeochem.2016.01.006](https://doi.org/10.1016/j.apgeochem.2016.01.006)
- Joey Rawson, Henning Prommer, Adam Siade, Jackson Carr, **Michael Berg**, James A. Davis, Scott Fendorf. *Numerical Modeling of Arsenic Mobility during Reductive Iron-Mineral Transformations*. Environmental Science & Technology, **50**, 2459–2467 (2016). [doi:10.1021/acs.est.5b05956](https://doi.org/10.1021/acs.est.5b05956)
- Bas Vriens, Marcel Mathis, Lenny H.E. Winkel, **Michael Berg\***. *Quantification of volatile-alkylated selenium and sulfur in complex aqueous media using solid-phase microextraction*. Journal of Chromatography A, **1407**, 11–20 (2015). [doi:10.1016/j.chroma.2015.06.054](https://doi.org/10.1016/j.chroma.2015.06.054)
- Jenny Norrman, Charlotte J. Sparrenbom, **Michael Berg**, Dang Duc Nhan, Gunnar Jacks, Peter Harms-Ringdahl, Pham Quy Nhan, Håkan Rosqvist. *Tracing sources of ammonium in reducing groundwater in a well field in Hanoi (Vietnam) by means of stable nitrogen isotope ( $\delta^{15}N$ ) values*. Applied Geochemistry, **61**, 248–258 (2015). [doi:10.1016/j.apgeochem.2015.06.009](https://doi.org/10.1016/j.apgeochem.2015.06.009)
- Weixiao Qi, Heinz Singer, **Michael Berg\***, Beat Müller, Benoit Pernet-Coudrier, Huijuan Liu\*, Jiu-hui Qu. *Elimination of polar micropollutants and anthropogenic markers by wastewater treatment in Beijing, China*. Chemosphere, **119**, 1054–1061 (2015). [doi:10.1016/j.chemosphere.2014.09.027](https://doi.org/10.1016/j.chemosphere.2014.09.027)
- Andreas Voegelin, Ralf Kaegi, **Michael Berg**, Katja Sonja Nitzsche, Andreas Kappler, Vi Mai Lan, Pham Thi Kim Trang, Jörg Göttlicher, Ralph Steininger. *Solid-phase characterization of an effective household*

- sand filter for As, Fe and Mn removal from groundwater in Vietnam. Environmental Chemistry* **11**, 566–578 (2014). doi:10.1071/EN14011
- Tim Blazina, Youbin Sun, Andreas Voegelin, Markus Lenz, **Michael Berg**, Lenny H.E. Winkel. Terrestrial selenium distribution in China is potentially linked to monsoonal climate. *Nature Communications* **5**, 4717 (2014). doi:10.1038/ncomms5717
- Bas Vriens, Adrian A. Ammann, Harald Hagendorfer, Markus Lenz, **Michael Berg**, Lenny H.E. Winkel. *Quantification of Methylated Selenium, Sulfur, and Arsenic in the Environment. PLoS ONE*, **9(7)**: e102906 (2014). doi:10.1371/journal.pone.0102906
- C. Annette Johnson, **Michael Berg**, David Sabatini. *Towards sustainable safe drinking water supply in low- and middle-income countries: The challenges of geogenic contaminants and mitigation measures. Science of the Total Environment*, **488-489**, 475–475 (2014). doi:10.1016/j.scitotenv.2014.01.131
- Tetsuro Agusa, Pham Thi Kim Trang, Vi Mai Lan, Duong Hong Anh, Shinsuke Tanabe, Pham Hung Viet, **Michael Berg**. *Human exposure to arsenic from drinking water in Vietnam. Science of the Total Environment*, **488-489**, 562–569 (2014). doi:10.1016/j.scitotenv.2013.10.039
- Bas Vriens, Markus Lenz, Laurent Charlet, **Michael Berg**, Lenny H.E. Winkel. *Natural wetland emissions of methylated trace elements. Nature Communications* **5**, 3035 (2014). doi:10.1038/ncomms4035
- Weixiao Qi, Beat Müller, Benoit Pernet-Coudrier, Heinz Singer, Huijuan Liu, Jihui Qu, **Michael Berg**. *Organic micropollutants in the Yangtze River: Seasonal occurrence and annual loads. Science of the Total Environment*, **472**, 789–799 (2014). doi:10.1016/j.scitotenv.2013.11.019
- Alexander van Geen, Benjamín C. Bostick, Pham Thi Kim Trang, Vi Mai Lan, Nguyen-Ngoc Mai, Phu Dao Manh, Pham Hung Viet, Kathleen Radloff, Zahid Aziz, Jacob L. Mey, Mason O. Stahl, Charles F. Harvey, Peter Oates, Beth Weinman, Caroline Stengel, Felix Frei, Rolf Kipfer, **Michael Berg**. *Retardation of arsenic transport through a Pleistocene aquifer. Nature*, **501**, 204–207 (2013). doi:10.1038/nature12444
- Luis Rodríguez-Lado, Guifan Sun, **Michael Berg**, Qiang Zhang, Hanbin Xue, Quanmei Zheng, C. Annette Johnson\*. *Groundwater arsenic contamination throughout China. Science*, **341**, 866–868 (2013). doi:10.1126/science.1237484
- Florian Heeb, Heinz Singer\*, Benoit Pernet-Coudrier, Weixiao Qi, Huijuan Liu, Philipp Longrée, Beat Müller, **Michael Berg**\*. *Organic Micropollutants in Rivers Downstream of the Megacity Beijing: Sources and Mass Fluxes in a Large-scale Wastewater Irrigation System. Environmental Science & Technology*, **46**, 8680–8688 (2012). doi:10.1021/es301912q
- Beat Müller, **Michael Berg**, Benoit Pernet-Coudrier, Weixiao Qi, Huijuan Liu. *The geochemistry of the Yangtze River: Seasonality of concentrations and temporal trends of chemical loads. Global Biogeochem. Cycles*, **26**, GB2028, 14 pp. (2012). doi:10.1029/2011GB004273
- Benoit Pernet-Coudrier, Weixiao Qi, Huijuan Liu, Beat Müller, **Michael Berg**\*. *Sources and Pathways of Nutrients in the Semi-Arid Region of Beijing-Tianjin, China. Environmental Science & Technology*, **46**, 5294–5301 (2012). doi:10.1021/es3004415
- Wafa M. Al Lawati, Athanasios Rizoulis, Elisabeth Eiche, Christopher Boothman, David A. Polya, Jonathan R. Lloyd, **Michael Berg**, Patricio Vasquez-Aguilar, Bart E. van Dongen. *Characterisation of organic matter and microbial communities in contrasting arsenic-rich Holocene and arsenic-poor Pleistocene aquifers, Red River Delta, Vietnam. Applied Geochemistry*, **27**, 315–325 (2012). doi:10.1016/j.apgeochem.2011.09.030
- Helena I.F. Amaral, Christoph Aeppli, Rolf Kipfer, **Michael Berg**. *Assessing the transformation of chlorinated ethenes in aquifers with limited potential for natural attenuation: Added values of compound-specific carbon isotope analysis and groundwater dating. Chemosphere*, **85**, 774–781 (2011). doi:10.1016/j.chemosphere.2011.06.063
- Richard B. Johnston, **Michael Berg**, C. Annette Johnson, Elizabeth Tilley, Janet G. Hering. *Water and Sanitation in Developing Countries: Geochemical Aspects of Quality and Treatment. Elements*, **7**, 163–168 (2011). doi:10.2113/gselements.7.3.163
- Weixiao Qi, Huijuan Liu, Jihui Qu, Chengzhi Hu, Huachun Lan, **Michael Berg**, Huimin Ren, Wei Xu. *Polycyclic aromatic hydrocarbons in effluents from wastewater treatment plants and receiving streams in Tianjin, China. Environmental Monitoring and Assessment*, **177**, 467–480 (2011). doi:10.1007/s10661-010-1648-4

- Robert Tobias, **Michael Berg**. *Sustainable Use of Arsenic-Removing Sand Filters in Vietnam: Psychological and Social Factors*. *Environmental Science & Technology*, **45**, 3260–3267 (2011).  
doi:10.1021/es102076x
- Thomas B. Hofstetter, **Michael Berg**. *Assessing transformation processes of organic contaminants by compound-specific stable isotope analysis*. *TRAC -Trends in Analytical Chemistry*, **30**, 618–627 (2011).  
doi:10.1016/j.trac.2010.10.012
- Lenny H.E. Winkel, Pham Thi Kim Trang, Vi Mai Lan, Caroline Stengel, Manouchehr Amini, Nguyen Thi Ha, Pham Hung Viet, **Michael Berg\***. *Arsenic pollution of groundwater in Vietnam exacerbated by deep aquifer exploitation for more than a century*. *PNAS (P. Natl. Acad. Sci. USA)*, **108**, 1246–1251 (2011).  
doi:10.1073/pnas.1011915108  
**Data deposition:** Data, hydrochemical maps, modeled risk maps, and movies reported in this paper were deposited on the website of Eawag and can be downloaded from <http://www.eawag.ch/arsenic-vietnam>
- Rowland H.A.L., Omoregie E.O., Millot R., Jimenez C., Mertens J., Baciu C., Hug S.J., **Berg M.\*** *Geochemistry and arsenic behaviour in groundwater resources of the Pannonian Basin (Hungary and Romania)*. *Applied Geochemistry*, **26**, 1-17 (2011). doi:10.1016/j.apgeochem.2010.10.006
- Elisabeth Eiche, Utz Kramar, **Michael Berg**, Zsolt Berner, Stefan Norra, Thomas Neumann. *Geochemical changes in individual sediment grains during sequential arsenic extractions*. *Water Research*, **44**, 5545-5555 (2010). doi:10.1016/j.watres.2010.06.002
- Christoph Aeppli, Thomas B. Hofstetter, Helena I.F. Amaral, Rolf Kipfer, René P. Schwarzenbach, **Michael Berg\***. *Quantifying In Situ Transformation Rates of Chlorinated Ethenes by Combining Compound-Specific Stable Isotope Analysis, Groundwater Dating, and Carbon Isotope Mass Balances*. *Environmental Science & Technology*, **44**, 3705-3711 (2010). doi:10.1021/es903895b
- Huimin Ren, Huijuan Liu, Jiuhui Qu, **Michael Berg**, Weixiao Qi, Wei Xu. *The influence of colloids on the geochemical behavior of metals in polluted water using as an example Yongdingxin River, Tianjin, China*. *Chemosphere*, **78**, 360-367 (2010). doi:10.1016/j.chemosphere.2009.11.018
- Helena I.F. Amaral, **Michael Berg**, Matthias S. Brennwald, Markus Hofer, Rolf Kipfer. *<sup>13</sup>C/<sup>12</sup>C Analysis of Ultra-Trace Amounts of Volatile Organic Contaminants in Groundwater by Vacuum Extraction*. *Environmental Science & Technology*, **44**, 1023-1029 (2010). doi:10.1021/es901760q
- Pham Manh Hoai, Nguyen Thuy Ngoc, Nguyen Hung Minh, Pham Hung Viet, **Michael Berg**, Alfredo C. Alder, Walter Giger. *Recent levels of organochlorine pesticides and polychlorinated biphenyls in sediments of the sewer system in Hanoi, Vietnam*. *Environmental Pollution*, **158**, 913-920 (2010).  
doi:10.1016/j.envpol.2009.09.018
- Christoph Aeppli, **Michael Berg**, Olaf A. Cirpka, Christof Holliger, René P. Schwarzenbach, Thomas B. Hofstetter. *Influence of Mass-Transfer Limitations on Carbon Isotope Fractionation During Microbial Dechlorination of Trichloroethene*. *Environmental Science & Technology*, **43**, 8813-8820 (2009).  
doi:10.1021/es901481b
- Helena I.F. Amaral, Judite Fernandes, **Michael Berg**, René P. Schwarzenbach, Rolf Kipfer. *Assessing TNT and DNT groundwater contamination by compound-specific isotope analysis and <sup>3</sup>H–<sup>3</sup>He groundwater dating: A case study in Portugal*. *Chemosphere*, **77**, 805-812 (2009).  
doi:10.1016/j.chemosphere.2009.08.011
- Johanna Buschmann, **Michael Berg**. *Impact of sulfate reduction on the scale of arsenic contamination in groundwater of the Mekong, Bengal and Red River deltas*. *Applied Geochemistry*, **24**, 1278-1286 (2009).  
doi:10.1016/j.apgeochem.2009.04.002
- Elisabeth Eiche, Thomas Neumann, **Michael Berg**, Beth Weinman, Alexander van Geen, Stefan Norra, Zsolt Berner, Pham Thi Kim Trang, Pham Hung Viet, Doris Stüben. *Geochemical processes underlying a sharp contrast in groundwater arsenic concentrations in a village on the Red River delta, Vietnam*. *Applied Geochemistry*, **23**, 3143-3154 (2008). doi:10.1016/j.apgeochem.2008.06.023
- David A. Polya, **Michael Berg**, Andrew G. Gault and Yoshio Takahashi. *Arsenic in Groundwaters of South-East Asia: with emphasis on Cambodia and Vietnam* (Editorial). *Applied Geochemistry*, **23**, 2968-2976 (2008). doi: 10.1016/j.apgeochem.2008.06.024
- A. van Geen, K. Radloff, Z. Aziz, Z. Cheng, M.R. Huq, K.M. Ahmed, B. Weinman, S. Goodbred, H.B. Jun, Y. Zheng, **M. Berg**, P.T.K. Trang, L. Charlet, J. Metral, D. Tisserand, S. Guillot, S. Chakraborty, A.P.

- Gajurel, B.N. Upreti. *Comparison of arsenic concentrations in simultaneously-collected groundwater and aquifer particles from Bangladesh, India, Vietnam, and Nepal*. *Applied Geochemistry*, **23**, 3244-3251 (2008). doi:10.1016/j.apgeochem.2008.07.005
- Jenny Norrman, Charlotte J. Sparrenbom, **Michael Berg**, Dang Duc Nhan, Pham Quy Nhan, Håkan Rosqvist, Gunnar Jacks, Emma Sigvardsson, David Baric, Johanna Moreskog, Peter Harms-Ringdahl, Nguyen Van Hoan. *Arsenic mobilisation in a new well-field of drinking water production along the Red River, Nam Du, Hanoi*. *Applied Geochemistry*, **23**, 3127-3142 (2008). doi:10.1016/j.apgeochem.2008.06.016
- Luis Rodriguez Lado, David Polya, Lenny Winkel, **Michael Berg**, Aimee Hegan. *Modelling arsenic hazard in groundwater in Cambodia: a geostatistical approach using ancillary data*. *Applied Geochemistry*, **23**, 3010-3018 (2008). doi:10.1016/j.apgeochem.2008.06.028
- Lenny Winkel, **Michael Berg\***, Caroline Stengel, Thomas Rosenberg. *Hydrogeological survey assessing arsenic and other groundwater contaminants in the lowlands of Sumatra, Indonesia*. *Applied Geochemistry*, **23**, 3019-3028 (2008). doi:10.1016/j.apgeochem.2008.06.021
- Akané E. Hartenbach, Thomas B. Hofstetter, Peter R. Tentscher, Silvio Canonica, **Michael Berg**, René P. Schwarzenbach. *Carbon, Hydrogen, and Nitrogen Isotope Fractionation During Light-Induced Transformations of Atrazine*. *Environmental Science & Technology*, **42**, 7751–7756 (2008). doi:10.1021/es800356h
- Stephan J. Hug, Olivier X. Leupin, **Michael Berg**. *Bangladesh and Vietnam: Different groundwater compositions require different approaches to arsenic mitigation*. *Environmental Science & Technology*, **42**, 6318–6323 (2008). doi:10.1021/es7028284
- Johanna Buschmann, **Michael Berg\***, Caroline Stengel, Lenny Winkel, Mickey L. Sampson, Pham Thi Kim Trang, and Pham Hung Viet. *Contamination of Drinking Water Resources in the Mekong Delta Floodplains: Arsenic and Other Trace Metals Pose Serious Health Risks to Population*. *Environment International*, **34**, 756–764 (2008). doi:10.1016/j.envint.2007.12.025
- Beat Müller, **Michael Berg**, Zhi Ping Yao, Xian Feng Zhang, Ding Wang, and August Pfluger. *How polluted is the Yangtze river? Water quality downstream from the Three Gorges Dam*. *Science of the Total Environment*, **402**, 232–247 (2008). doi:10.1016/j.scitotenv.2008.04.049
- Lenny Winkel, **Michael Berg\***, Manouchehr Amini, Stephan J. Hug, C. Annette Johnson. *Predicting groundwater arsenic contamination in Southeast Asia from surface parameters*. *Nature Geoscience*, **1**, 536–542 (2008). doi:10.1038/ngeo254
- Hong Anh Duong, Ngoc Ha Pham, Hoang Tung Nguyen, Thi Thuong Hoang, Hung Viet Pham, Van Ca Pham, **Michael Berg**, Walter Giger, and Alfredo C. Alder. *Occurrence, Fate and Antibiotic Resistance of Fluoroquinolone Antibacterials in Hospital Wastewaters in Hanoi, Vietnam*. *Chemosphere*, **72**, 968–973 (2008). doi:10.1016/j.chemosphere.2008.03.009
- Manouchehr Amini, Karim C. Abbaspour, **Michael Berg**, Lenny Winkel, Stephan J. Hug, Eduard Hoehn, Hong Yang, Annette C. Johnson. *Statistical Modeling of Global Geogenic Arsenic Contamination in Groundwaters*. *Environmental Science & Technology*, **42**, 3669–3675 (2008). doi:10.1021/es702859e
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