# Veröffentlichungen R. Liedl:

Die mit * gekennzeichneten Publikationen sind *nicht* im ISI Web of Science gelistet.

131) Yadav P. K., Birla S., Baliga V., Liedl R., Chahar B. R., Werth C. J. (2021): Contamination assessment and site-management tool (CAST): A browser-based tool for site assessment, Groundwater, https://doi.org/10.1111/gwat.13137.

130) Chandrasekar A., Binder M., Liedl R., Berendonk T. (2021): Reactive transport modelling of Enterococcus faecalis JH2-2 passage through water saturated sediment columns, J. Hazard. Mat. 413, https://doi.org/ 10.1016/j.jhazmat.2021.125292.

129) Kalwa F., Binder M., Händel F., Grüneberg L., Liedl R. (2021): Biological and physical clogging in infiltration wells: Effects of well diameter and gravel pack, Groundwater, https://doi.org/10.1111/gwat.13104.

128) Binder M., Hahnewald A., Händel F., Prommer H., Engelmann C., Burghardt D., Stock P., Tritschler F., Liedl R., Walther M.: (2021): Single-rate dual-domain mass transfer model: Elucidating temperature effects, Water Resour. Res. 57(4), https://doi.org/ 10.1029/2020WR029474.

127) Birla S., Yadav P. K., Mahalawat P., Händel F., Chahar B. R., Liedl R. (2020): Influence of recharge rates on steady-state plume lengths, J. Contam. Hydrol. 235, https://doi.org/10.1016/j.jconhyd.2020.103709.

126) Jampani M., Amerasinghe P., Liedl R., Locher-Krause K., Hülsmann S. (2020): Multi-functionality and land use dynamics in a peri-urban environment influenced by wastewater irrigation, Sustainable Cities and Society 62, https://doi.org/ 10.1016/j.scs.2020.102305.

125) Kavousi A., Reimann T., Liedl R., Raeisi E. (2020): Karst aquifer characterization by inverse application of MODFLOW-2005 CFPv2 discrete-continuum flow and transport model, J. Hydrol. 587, https://doi.org/10.1016/j.jhydrol.2020.124922.

124) Giese M., Reimann T., Liedl R., Dewandel B., Maréchal J.-C., Sauter M. (2020): An approximation of inner boundary conditions for wells intersecting highly conductive structures, Groundwater 58(4), 611-621.

123) Tritschler F., Binder M., Händel F., Burghardt D., Dietrich P., Liedl R. (2020): Collected rain water as cost-efficient source for aquifer tracer testing, Groundwater 58(1), 125-131.

122) Jampani M., Liedl R., Hülsmann S., Sonkamble S., Amerasinghe P. (2020): Hydrogeochemical and mixing processes controlling groundwater chemistry in a wastewater irrigated agricultural system of India, Chemosphere 239, https://doi.org/10.1016/j.chemosphere.2019.124741.

121) Binder M., Burghardt D., Engelmann C., Tritschler F., Simon E., Prommer H., Dietrich P., Liedl R., Händel F. (2019): Suitability of precipitation waters as semi-artificial tracers, J. Hydrol. 577, https://doi.org/10.1016/j.jhydrol.2019.123982.

120) Reimann T., Liedl R., Schellhammer K. S. (2019): Using blended learning to redesign a groundwater management lecture series: Benefits and outcome, Grundwasser 24(3), 177-184.

119) Engelmann C., Händel F., Binder M., Yadav P. K., Dietrich P., Liedl R., Walther M. (2019): The fate of DNAPL contaminants in non-consolidated subsurface systems – Discussion on the relevance of effective source zone geometries for plume propagation, J. Hazard. Mat. 375, 233-240.

118) Moreno-Gomez M., Martinez-Salvador C., Moulahoum A.-W., Liedl R., Stefan C., Pacheco J. (2019): First steps into an integrated karst aquifer vulnerability approach (IKAV). Intrinsic vulnerability analysis of the Yucatan karst, Mexico, Water 11(8), https://doi.org/10.3390/w11081610.

117) Martinez-Salvador C., Moreno-Gomez M., Liedl R. (2019): Estimating pollutant residence time and $NO_3$ concentration in the Yucatan karst aquifer; Considerations for an integrated karst aquifer vulnerability methodology, Water 11(7), https://doi.org/10.3390/w11071431.

116) Moreno-Gomez M., Liedl R., Stefan C. (2019): A new GIS-based model for karst dolines using LIDAR; Application of a multidepth threshold approach in the Yucatan karst, Mexico, Remote Sensing 11(10), https://doi.org/10.3390/rs11101147.

115) Binder M., Tritschler F., Burghardt D., Klotzsch S., Dietrich P., Liedl R., Händel F. (2019): Application of snowmelt as an active and inexpensive dual isotope groundwater tracer, Hydrogeol. J. 27(1), 423-433.

114) Moreno-Gomez M., Pacheco J., Liedl R., Stefan C. (2018): Evaluating the applicability of European karst vulnerability assessment methods to the Yucatan karst, Mexico, Env. Earth Sci. 77(19), https://doi.org/10.1007/s12665-018-7869-5.

113) Jampani M., Huelsmann S., Liedl R., Sonkamble S., Ahmed S., Amerasinghe P. (2018): Spatio-temporal distribution and chemical characterization of groundwater quality of a wastewater irrigated system: A case study, Sci. Total Environ. 636, 1089-1098.

112) Usman M., Liedl R., Arshad M., Conrad C. (2018): 3-D numerical modelling of groundwater flow for scenario-based analysis and management, Water SA 44(2), 146-154.

111) Usman M., Reimann T., Liedl R., Abbas A., Conrad C., Saleem S. (2018): Inverse parametrization of a regional groundwater flow model with the aid of modelling and GIS: Test and application of different approaches, ISPRS Int. J. Geo-Inf. 7(1), 22, doi: 10.3390/ijgi7010022.

110) Walther M., Graf T., Kolditz O., Liedl R., Post V. (2017) How significant is the slope of the sea-side boundary for modelling seawater intrusion in coastal aquifers? J. Hydrol. 551, 648-659.

109) Giese M., Reimann T., Liedl R., Maréchal J.-C., Sauter M. (2017): Application of the flow dimension concept for numerical drawdown data analyses in mixed-flow karst systems, Hydrogeol. J. 25(3), 799-811.

108) Händel F., Liu G., Fank J., Friedl F., Liedl R., Dietrich P. (2016): Assessment of small-diameter shallow wells for managed aquifer recharge at a site in southern Styria, Austria, Hydrogeol. J. 24(8), 2079-2091.

107) Händel F., Binder M., Dietze M., Liedl R., Dietrich P. (2016): Experimental recharge by small-diameter wells: The Pirna, Saxony, case study, Env. Earth Sci. 75(10), 75:930.doi:10.1007/s12665-016-5701-7.

106) Vienken T., Händel F., Epting J., Dietrich P., Liedl R., Huggenberger P. (2016): Energiewende braucht Wärmewende – Chancen und Limitierungen der intensiven thermischen Nutzung des oberflächennahen Untergrundes in urbanen Gebieten vor dem Hintergrund der aktuellen Energiedebatte in Deutschland, Grundwasser 21(1), 69-73.

105) Usman M., Liedl R., Shahid M. A., Abbas A. (2015): Land use / land cover classification and its change detection using multi-temporal MODIS NDVI data, J. Geogr. Sci. 25(12), 1479-1506.

104) Usman M., Liedl R., Kavousi A. (2015): Estimation of distributed seasonal net recharge by modern satellite data in irrigated agricultural regions of Pakistan, Env. Earth Sci. 74(2), 1463-1486.

103) Usman M., Liedl R., Awan U. K. (2015): Spatio-temporal estimation of consumptive water use for assessment of irrigation system performance and management of water resources in irrigated Indus Basin, Pakistan, J. Hydrol. 525, 26-41.

102) Siergieiev D., Ehlert L., Reimann T., Lundberg A., Liedl R. (2015): Modelling hyporheic processes for regulated rivers under transient hydrological and hydrogeological conditions, Hydrol. Earth Syst. Sci. 19(1), 329-340.

101) Seegert J., Berendonk T. U., Bernhofer C., Blumensaat F., Dombrowsky I., Fühner C., Grundmann J., Hagemann N., Kalbacher T., Kopinke F.-D., Liedl R., Leidel M., Lorz C., Makeschin F., Markova D., Niemann S., Röstel G., Schanze J., Scheifhacken N., Schütze N., Siebert C., Stefan C., Strehlitz B., Teutsch G., Weigelt C., Weiß H., Kolditz O., Borchardt D., Krebs P. (2014): Integrated water resources management under different hydrological, climatic and socio-economic conditions: Results and lessons learned from a transdisciplinary IWRM project IWAS, Env. Earth Sci. 72(12), 4677-4687.

100) Walther M., Bilke L., Delfs J.-O., Graf T., Kolditz O., Liedl R. (2014): Assessing the saltwater remediation potential of a three-dimensional, heterogeneous, coastal aquifer system: Model verification, application and visualization for transient density-driven seawater intrusion, Env. Earth Sci. 72(10), 3827-3837.

99) Händel F., Liu G., Dietrich P., Liedl R., Butler J. J. (2014): Numerical assessment of ASR recharge using small-diameter wells and surface basins, J. Hydrol. 517, 54-63.

98) Usman M., Liedl R., Shahid M. A. (2014): Managing irrigation water by yield and water productivity assessment of a rice-wheat system using remote sensing, J. Irrig. Drain. Engng. 140(7), 04014022.

97) Engelhardt I., De Aguinaga J. G., Mikat H., Schüth C., Liedl R. (2014): Complexity vs. simplicity: Groundwater model ranking using information criteria, Ground Water 52(4), 573-583.

96) Walther M., Solpuker U., Böttcher N., Kolditz O., Liedl R., Schwartz F. W. (2014): Description and verification of a novel flow and transport model for silicate-gel emplacement, J. Cont. Hydrol. 157, 1-10.

95) Reimann T., Giese M., Geyer T., Liedl R., Maréchal J.-C., Shoemaker W. B. (2014): Representation of water abstraction from a karst conduit with numerical discrete-continuum models, Hydrol. Earth Syst. Sci. 18(1), 227-241.

94) Yadav P. K., Liedl R., Dietrich P. (2014): Influence of source thickness on steady-state plume length, Env. Earth Sci. 71(2), 959-964.

93) Händel F., Liedl R., Fank J., Rock G. (2013): Regional modeling of geothermal energy systems in shallow aquifers: the Leibnitzer Feld case study (Austria), Env. Earth Sci. 70(8), 3433-3446.

92) Barth J., Liedl R. (2013): Fast 200 Billionen Liter später … (Editorial), Grundwasser 18(4), 221.

91) Yadav P. K., Händel F., Müller C., Liedl R., Dietrich P. (2013): NAFLA – A simulation tool for analytical estimation of plume length, Grundwasser 18(1), 47-53.

90) Böttcher N., Singh A.-K., Kolditz O., Liedl R. (2012): Non-isothermal, compressible gas flow for the simulation of an enhanced gas recovery application, J. Comp. Appl. Math. 236(18), 4933-4943.

89) Walther M., Delfs J.-O., Grundmann J., Kolditz O. Liedl R. (2012): Saltwater intrusion modeling: Verification and application to an agricultural coastal arid region in Oman, J. Comp. Appl. Math. 236(18), 4798-4809.

88) Böttcher N., Taron J., Kolditz O., Park C.-H., Liedl R. (2012): Evaluation of thermal equations of state for $CO_2$ in numerical simulations, Env. Earth Sci 67(2), 481-495.

87) Philipp A., Liedl R., Wöhling T. (2012): Analytical model of surface flow on hillslopes based on the zero inertia equations, J. Hydraul. Engng. 138(5), 391-399.

86) Kalbacher T., Delfs J.-O., Shao H., Wang W., Walther M., Samaniego L., Schneider C., Kumar R., Musolff A., Centler F., Sun F., Hildebrandt A., Liedl R., Borchardt D., Krebs P., Kolditz O. (2012): The IWAS-Toolbox: Software coupling for an integrated water resources management, Env. Earth Sci. 65(5), 1367-1380.

85) Reimann T., Geyer T., Shoemaker W. B., Liedl R., Sauter M. (2011): Effects of dynamically variable saturation and matrix-conduit coupling of flow in karst aquifers, Water Resour. Res. 47, W11503, doi:10.1029/2011WR010446.

84) Liedl R., Yadav P. K., Dietrich P. (2011): Length of 3-D mixing controlled plumes for a fully penetrating contaminant source with finite width, Water Resour. Res. 47, W10542, doi:10.1029/2010WR009710.

83) Liu S., Liedl R., Grathwohl P. (2010): Simple analytical solutions for oxygen transfer into anaerobic groundwater, Water Resour. Res. 46, W10542, doi:10.1029/2009WR008434.

82) Uhlig M., Gebel M., Halbfaß S., Liedl R. (2010): Mesoskalige Modellierung der grundwasserbürtigen Nitratbelastung von Fließgewässern, Grundwasser 15(3), 163-176.

81) Grathwohl P., Kozel R., Zetinigg H., Liedl R., Barth J. (2010): Hydrogeologie unter einem D-A-CH (Editorial), Grundwasser 15(2), 87.

80) Philipp A., Schmitz G. H., Liedl R. (2010): An analytical model of surge flow in non-prismatic permeable channels and its application in arid regions, J. Hydraul. Engng. 136(5), 290-298.

79) Barth J., Liedl R. (2010): Was ist neu bei Grundwasser? – Staffelstab übernommen (Editorial), Grundwasser 15(1), 1.

78) Heinz B., Birk S., Liedl R., Geyer T., Straub K. L., Andresen J., Bester K., Kappler A. (2009): Water quality deterioration at a karst spring (Gallusquelle, Germany) due to combined sewer overflow: Evidence of bacterial and micro-pollutant contamination, Env. Geol. 57(4), 797-808.

77) Beyer C., Konrad W., Rügner H., Bauer S., Liedl R., Grathwohl P. (2009): Model-based prediction of long-term leaching from secondary materials in road constructions and noise protection dams, Waste Management 29(2), 839-850.

76) Geyer T., Birk S., Liedl R., Sauter M. (2008): Quantification of temporal distribution of recharge in karst systems from spring hydrographs, J. Hydrol. 348(3-4), 452-463.

75) Brauchler R., Cheng J.-T., Dietrich P., Everett M., Johnson B., Liedl R., Sauter M. (2007): An inversion strategy for hydraulic tomography: Coupling travel time and amplitude inversion, J. Hydrol. 345(3-4), 184-198.

74) Brauchler R., Sauter M., McDermott C. I., Leven C., Weede M., Dietrich P., Liedl R., Hötzl H., Teutsch G. (2007): Characterization of fractured porous media: Aquifer analogue approach, in: Krasny J., Sharp J. M. (eds.), Groundwater in fractured rocks, IAH-Selected Paper Series 9, 375-392.*

73) Beyer C., Konrad W., Park C. H., Bauer S., Grathwohl P., Rügner H., Liedl R. (2007): Modellbasierte Sickerwasserprognose für die Verwertung von Recycling-Baustoff in technischen Bauwerken, Grundwasser 12(2), 94-107.

72) Geyer T., Birk S., Licha T., Liedl R., Sauter M. (2007): Multi-tracer test approach to characterize reactive transport in karst aquifers, Ground Water 45(1), 36-45.

71) Birk S., Liedl R., Sauter M. (2006): Karst spring responses examined by process-based modeling, Ground Water 44 (Theme issue "Understanding through modeling"), 832-836.

70) Heinz B., Birk S., Liedl R., Geyer T., Straub K. L., Bester K., Kappler A. (2006): Vulnerability of a karst spring to wastewater infiltration (Gallusquelle, Southwest Germany), Austrian J. Earth Sci. 99, 11-17.*

69) Baraka-Lokmane S., Liedl R. (2006): From Micro to Meso: An exercise in determining hydraulic conductivity of fractured sandstone cores from detailed characterization of the fractures, Geophys. J. Int. 166, 1440-1453.

68) Mak K., Griebler C., Meckenstock R. U., Liedl R., Peter A. (2006): Combined application of conservative transport modelling and compound-specific carbon isotope analyses to assess *in-situ* attenuation of benzene, toluene, and *o*-xylene, J. Cont. Hydrol. 88, 306-320.

67) Montoya J. C., Costa J. L., Liedl R., Bedmar F., Daniel P. (2006): Effects of soil type and tillage practice on atrazine transport through intact soil cores, Geoderma 137, 161-173.

66) Wöhling T., Fröhner A., Schmitz G. H., Liedl R. (2006): Efficient solution of the coupled one-dimensional surface–two-dimensional subsurface flow during furrow irrigation advance, J. Irrig. Drain. Engng. 132(4), doi:10.1061/(ASCE)0733-9437(2006)132:4(380).

65) Bayer-Raich M., Jarsjö J., Liedl R., Ptak T., Teutsch G. (2006): Integral pumping test analyses of linearly sorbed groundwater contaminants using multiple wells: Inferring mass flows and natural attenuation rates, Water Resour. Res. 42, doi:10.1029/2005WR004244.

64) Massmann C., Birk S., Liedl R., Geyer T. (2006): Identification of hydrological models: Application to tracer test analysis in a karst aquifer, in: Bierkens M. F. P., Gehrels J. C., Kovar K. (eds.), Calibration and reliability in groundwater modelling: From uncertainty to decision making, IAHS Publ. 304, 59-64.

63) Bürkle C., Kern F., Liedl R. (2005): Quantifizierung der Entscheidungssicherheit bei der Bewertung von Verdachtsflächen, altlasten spektrum 6/2005, 337-342.*

62) Liedl R., Valocchi A. J., Dietrich P., Grathwohl P. (2005): The finiteness of contaminant plumes, Water Resour. Res. 41(12), W12501, doi:10.1029/2004WR004000.

61) Bauer S., Liedl R., Sauter M. (2005): Modeling the influence of epikarst evolution on karst aquifer genesis: A time-variant recharge boundary condition for joint karst-epikarst development, Water Resour. Res. 41(9), W09416, doi:10.1029/2004WR003321.

60) Bold S., Grathwohl P., Liedl R. (2005): Enhancement of solute spreading in soils due to particle-facilitated transport and preferential flow, in: Nützmann G., Viotti P., Aagaard P. (eds.), Reactive transport in soil and groundwater: Processes and models, Springer, 157-170.

59) Birk S., Liedl R., Sauter M., Teutsch G. (2005): Simulation of the development of gypsum maze caves, Environ. Geol. 48(3) (Special Issue "ROSES - Risk of Subsidence due to Evaporite Solution"), 296-306.

58) Bauer S., Birk S., Liedl R., Sauter M. (2005): Simulation of karst aquifer genesis by using a double-permeability approach - Investigation for confined and unconfined settings, in: Dreybrodt W., Gabrovšek F., Romanov D., Processes of speleogenesis: A modeling approach, Carsologica 4, 287 - 321.*

57) Birk S., Geyer T., Liedl R., Sauter M. (2005): Process-based interpretation of tracer tests in carbonate aquifers, Ground Water 43(3), 381-388.

56) M$^{c}$Dermott C. I., Liedl R., Sauter M., Teutsch G. (2005): The multi-shell model - A conceptual model approach, in: Dietrich P., Helmig R., Sauter M., Hötzl H., Köngeter J., Teutsch G. (Hrsg.), Flow and transport in fractured porous media, Springer, 305-321.*

55) M$^{c}$Dermott C. I., Sauter M., Liedl R., Teutsch G. (2005): Flow and transport experiments conducted on laboratory cylinders, in: Dietrich P., Helmig R., Sauter M., Hötzl H., Köngeter J., Teutsch G. (Hrsg.), Flow and transport in fractured porous media, Springer, 127-142.*

54) Baraka-Lokmane S., Liedl R., Sauter M., Teutsch G. (2005): Core scale, in: Dietrich P., Helmig R., Sauter M., Hötzl H., Köngeter J., Teutsch G. (Hrsg.), Flow and transport in fractured porous media, Springer, 65-101.*

53) Pepprah E. S., Birk S., Liedl R., Khire M. V. (2005): Void evolution in soluble rocks beneath dams under limited flow condition, in: Beck B. F. (ed.), Sinkholes and the Engineering and Environmental Impacts of Karst, ASCE Geotechnical Special Publ. 144, 103-113.*

52) Kolditz O., Beinhorn M., Liedl R. (2005): An object-oriented groundwater/river model, in: Thomson N. R. (ed.), Bringing groundwater quality research to the watershed scale, IAHS Publ. 297, 531-539.

51) Bayer-Raich M., Jarsjö J., Liedl R., Ptak T., Teutsch G. (2004): Correction to "Average contaminant concentration and mass flow in aquifers from time-dependent pumping well data: Analytical framework" by Martí Bayer-Raich et al., Water Resour. Res. 40(11), W11901, doi:10.1029/ 2004WR003729.

50) Bayer-Raich M., Jarsjö J., Liedl R., Ptak T., Teutsch G. (2004): Average contaminant concentration and mass flow in aquifers from time-dependent pumping well data: Analytical framework, Water Resour. Res. 40(8), W0803, doi:10.1029/2004WR003095.

49) Birk S., Molinero García A., Kleineidam S., Bold S., Vogt C., Liedl R. (2004): Schadstofffreisetzung und -transport in braunkohlehaltigen Sedimenten, Grundwasser 9(2), 127-134.*

48) Peter A., Steinbach A., Liedl R., Ptak T., Michaelis W., Teutsch G. (2004): Assessing microbial degradation of *o*-xylene at field-scale from the reduction in mass flow rate combined with compound-specific isotope analyses, J. Cont Hydrol. 71, 127-154.

47) Rahman M. M., Liedl R., Grathwohl P. (2004): Sorption kinetics during macropore transport of organic contaminants in soils: Laboratory experiments and analytical modeling, Water Resour. Res. 40(1), W01503, doi:10.1029/ 2002WR001946.

46) Birk S., Liedl R., Sauter M. (2004): Identification of localised recharge and conduit flow by combined analysis of hydraulic and physico-chemical spring responses (Urenbrunnen, SW-Germany), J. Hydrol. 286, 179-193.

45) Ptak T., Liedl R. (2004): Modeling of reactive contaminant transport in hydraulically and hydrogeochemically heterogeneous aquifers using a geostatistical facies approach, in: Sanchez Vila X., Carrera J., Gomez Hernandez J. J. (eds.), Quantitative Geology and Geostatistics Vol. 13, 247-258.

44) Brauchler R., Liedl R., Dietrich P. (2003): A travel time-based hydraulic tomographic approach, Water Resour. Res. 39(12), 1370, doi:10.1029/2003WR002262.

43) Bold S., Kraft S., Grathwohl P., Liedl R. (2003): Sorption / desorption kinetics of contaminants on mobile particles: Modelling and experimental evidence, Water Resour. Res. 39(12), 1329, doi:10.1029/2002WR001798.

42) Bauer S., Liedl R., Sauter M. (2003): Modeling of karst aquifer genesis: Influence of exchange flow, Water Resour. Res. 39(10), 1285, doi:10.1029/2003WR002218.

41) Liedl R., Ptak T. (2003): Modelling of diffusion-limited retardation of contaminants in hydraulically and lithologically non-uniform aquifers, J. Cont. Hydrol. 66(3-4), 239-259.

40) M$^{c}$Dermott C. I., Sauter M., Liedl R. (2003): New experimental techniques for pneumatic tomographical determination of the flow and transport parameters of highly fractured porous rock samples, J. Hydrol. 278, 51-63.

39) Baraka-Lokmane S., Liedl R., Teutsch G. (2003): Comparison of measured and modelled hydraulic conductivities of fractured sandstone cores, Pure Appl. Geophys. 160, 909-927.

38) Liedl R., Sauter M., Hückinghaus D., Clemens T., Teutsch G. (2003): Simulation of the development of karst aquifers using a coupled continuum pipe flow model, Water Resour. Res. 39(3), 1057, doi:10.1029/2001WR001206.

37) Birk S., Liedl R., Sauter M., Teutsch G. (2003): Hydraulic boundary conditions as a controlling factor in karst genesis: A numerical modelling study on artesian conduit development in gypsum, Water Resour. Res. 39(1), 1004, doi:10.1029/2002WR001308.

36) Peter A., Liedl R., Ptak T., Teutsch G. (2002): Comparing two approaches for modelling natural attenuation of organic compounds in heterogeneous porous media, in: Schulz H. D., Teutsch G. (eds.), Geochemical processes - Conceptual models for reactive transport in soil and groundwater, Wiley-VCH, 242-249.*

35) Finkel M., Liedl R., Teutsch G. (2002): Modelling reactive transport of organic solutes in groundwater with a Lagrangian streamtube approach, in: Schulz H. D., Teutsch G. (eds.), Geochemical processes - Conceptual models for reactive transport in soil and groundwater, Wiley-VCH, 115-134.*

34) Ptak T., Liedl R. (2002): Upscaling of hydraulic and hydrogeochemical aquifer parameters using an approach based on sedimentological facies, in: Schulz H. D., Teutsch G. (eds.), Geochemical processes - Conceptual models for reactive transport in soil and groundwater, Wiley-VCH, 39-54.*

33) Schmitz G. H., Liedl R., Volker R. (2002): Analytical solution to the zero-inertia problem for surge flow phenomena in non-prismatic channels, J. Hydraul. Engng. 128(6), 604-615.

32) Birk S., Liedl R., Sauter M. (2002): Characterisation of gypsum karst aquifers by heat and mass transport simulations using a coupled continuum-pipe flow model, Acta Geol. Polon. 52(1), 23-29.*

31) Bauer S., Liedl R., Sauter M. (2002): Three-dimensional modelling of karst development on the catchment scale, Acta Geol. Polon. 52(1), 13-21.*

30) Ptak T., Liedl R. (2001): Modeling of reactive contaminant transport in hydraulically and hydrogeochemically heterogeneous aquifers, in: Seiler K.-P., Wohnlich S. (eds.), New approaches characterizing groundwater flow, 381-384.

29) Herfort M., Ptak T., Liedl R., Teutsch G. (2000): A new approach for the investigation of natural attenuation at field-scale, Land Contamination & Reclamation 8(3), 209-215.*

28) Jaeger R., Liedl R. (2000): Prognose der Sorptionskinetik organischer Schadstoffe in heterogenem Aquifermaterial, Grundwasser 5(2), 57-66.*

27) Liedl R., Sauter M. (2000): Charakterisierung von Karstgrundwasserleitern durch Simulation der Aquifergenese und des Wärmetransports, Grundwasser 5(1), 9-16.*

26) Birk S., Liedl R., Sauter M. (2000): Characterization of gypsum aquifers using a coupled continuum-pipe flow model, in: Stauffer F., Kinzelbach W., Kovar K. Hoehn E. (eds.), Calibration and reliability in groundwater modelling: Coping with uncertainty, IAHS Publ. 265, 16-21.

25) Bauer S., Liedl R., Sauter M. (2000): Modelling of karst development considering conduit-matrix exchange flow, in: Stauffer F., Kinzelbach W., Kovar K. Hoehn E. (eds.), Calibration and reliability in groundwater modelling: Coping with uncertainty, IAHS Publ. 265, 10-15.

24) Peter A., Liedl R., Ptak T.,Teutsch G. (2000): Comparing approaches for modelling natural attenuation of organic compounds in hetero-geneous porous media, in: Bjerg P. L., Engesgaard P., Krom T. D. (eds.), Groundwater 2000, Balkema, 53-54.

23) Sauter M., Liedl R. (1999): Modelling karst aquifer genesis using a coupled continuum-pipe flow model, in: Klimchouk A., Ford D. C., Palmer A. N., Dreybrodt W. (eds.), Speleogenesis: Evolution of karst aquifers, 212-219.*

22) Clemens T., Hückinghaus D., Liedl R., Sauter M. (1999): Simulation of the development of karst aquifers: Role of the epikarst, Int. Journ. Earth Sciences (Geol. Rundsch.) 88, 157-162.

21) Finkel M., Liedl R., Teutsch G. (1999): Modelling surfactant-enhanced remediation of polycyclic aromatic hydrocarbons, J. Environ. Modelling & Software 14 (Special Issue "Groundwater Flow and Solute Transport Modelling"), 203-211.

20) Liedl R., Sauter M. (1998): Modelling of aquifer genesis and heat transport in karst systems, Bull. d'Hydrogéol. 16 (Special Issue "Modelling in Karst Systems"), 185-200.*

19) Liedl R., Renner S., Sauter M. (1998): Obtaining information on fracture geometry from heat flow data in karst systems, Bull. d'Hydrogéol. 16 (Special Issue "Modelling in Karst Systems"), 143-153.*

18) Clemens T., Hückinghaus D., Sauter M., Liedl R., Teutsch G. (1998): Simulation of the evolution of maze caves, Bull. d'Hydrogéol. 16 (Special Issue "Modelling in Karst Systems"), 201-209.*

17) Jeannin P.-Y., Liedl R., Sauter M. (1998): Some concepts about heat transfer in karstic systems, in: Singh R. B. (ed.), Ecological techniques and approaches to vulnerable environment, Oxford & IBH Publisher, 339-349.*

16) Finkel M., Liedl R., Teutsch G. (1998): A modelling study on the efficiency of groundwater treatment walls in heterogeneous aquifers, in: Herbert M., Kovar K. (eds.), Groundwater quality: Remediation and protection, IAHS Publ. 250, 467-474.

15) Sauter M., Liedl R. (1998): Hydrogeochemical processes at the fracture/matrix boundary of fractured sandstones, in: Arehart G. B., Hulston J. R. (eds.), Water-rock interaction, 905-908.

14) Finkel M., Liedl R. (1998): Retarded intraparticle diffusion in heterogeneous aquifer material, in: Arehart G. B., Hulston J. R. (eds.), Water-rock interaction, 219-222.

13) Schmitz G. H., Liedl R. (1998): Hydrodynamic-analytical modelling for irrigation analysis, Arabian Journal for Science and Engineering 23(1C), 43-66.

12) Finkel M., Liedl R., Teutsch G. (1998): Modelling surfactant influenced PAH migration, Phys. Chem. Earth 23(2), 245-250.*

11) Clemens T., Hückinghaus D., Liedl R., Sauter M., Teutsch G. (1997): Modelling of the genesis of karst aquifer systems using a coupled reactive network model, in: Pointet T. (ed.), Hard Rock Hydrosystems, IAHS Publ. 241, 3-10.

10) Schmitz G. H., Liedl R. (1996): Synthese stochastischer und deterministischer Aspekte bei der physikalisch begründeten Modellierung des Bodenwasserhaushalts, Wiss. Z. TU Dresden 45(2), 73-78.*

9) Clemens T., Hückinghaus D., Sauter M., Liedl R., Teutsch G. (1996): A combined continuum and discrete network reactive transport model for the simulation of karst development, in: Kovar K., van der Heijde P. (eds.), Calibration and Reliability in Groundwater Modelling, IAHS Publ. 237, 309-318.

8) Mohrlok U., Liedl R. (1996): Generating fracture networks using iterated function systems, Geol. Rundsch. 85, 92-95.

7) Liedl R., Schmitz G. H., Seus G. J. (1996): Comment on "Mass conservative numerical solutions of the head-based Richards equation" by Klaus Rathfelder and Linda M. Abriola, Water Resour. Res. 32(3), 759-760.

6) Liedl R. (1994): A conceptual perturbation model of water movement in stochastically heterogeneous soils, Adv. Water Resources 17(3), 171-179.

5) Schmitz G. H., Seus G. J., Liedl R. (1990): Modellierung von 2D-Infiltrationsvorgängen auf der Basis von 1D-Ansätzen, Z. f. Bewässerungswirtschaft 25, 52-73.*

4) Schmitz G., Liedl R., Haverkamp R., Parlange J.-Y. (1990): Infiltration bei nicht eingestauter Bodenoberfläche: Analytische Lösung der Infiltrationsgleichung und geschlossene Berechnung der Feuchteausbreitung in der ungesättigten Bodenzone, Z. f. Kulturtechnik und Landentwicklg. 31, 293-305.

3) Schmitz G., Haverkamp R., Parlange J.-Y., Liedl R. (1989): Infiltration bei eingestauter Bodenoberfläche. – 2. Geschlossene Berechnung der Feuchteausbreitung in der ungesättigten Bodenzone, Z. f. Kulturtechnik und Landentwicklg. 30, 209-216.

2) Schmitz G., Haverkamp R., Parlange J.-Y., Liedl R. (1989): Infiltration bei eingestauter Bodenoberfläche. – 1. Analytische Lösung der Infiltrationsgleichung und praktische Berechnung der Versickerung, Z. f. Kulturtechnik und Landentwicklg. 30, 121-131.*

1) Schmitz G. H., Seus G. J., Liedl R. (1989): Diskussionsbeitrag zu dem Aufsatz "Ein Ingenieurverfahren zur Infiltrationsberechnung mit Taschenrechner", Österr. Wasserwirtschaft 41, 36-38.*