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香港大学水文地质学 博士, 现任中国地质大学(北京)教授。主持和参加14项科研项目, 其中5项为第一负责人, 2010年获国家杰出青年科学基金资助; 发表论文80多篇, 其中34余篇为SCI检索, 28 篇为第一或通讯作者。主要从事海岸带地下多组分多相流及其生态环境效应方面的研究, 取得了如下三方面的成果。一: 在滨海含水层中海波传播的研究中, 完整地考虑了海底淤泥等弱透水层的越流、弹性储量和上下含水层中海波的相互干涉效应, 拓展和改进了国际同行的近期工作; 二: 通过对海岸带地下水动态水化学变化规律的研究, 揭示了砾石和砂砾混合型海滩被原油污染后长期滞留的机理, 相关成果在《自然-地球科学》(Nature Geoscience)以第一作者发表, 并作为封底介绍; 给出了对原油污染的海滩进行生物修复时所需营养液的最佳注入方案; 三: 定量刻画了海潮引起的滨海包气带中的气水两相流, 解释了1999年雨季香港机场路面发生的半径达数米的圆丘状拱起的原因, 相关论文被美国地球物理协会选入“Journal Highlights”; 从根部呼吸的角度定量描述了前人在《科学》上所报道的潮间带湿地植物总是在离潮水沟附近长势最好的机制。

学习经历

1999.09 - 2003.02: 博士(水文地质学), 香港大学地球科学系,
1988.09 - 1991.07: 硕士(应用数学), 复旦大学数学系,
1984.09 - 1988.07: 学士(应用数学), 复旦大学数学系,

工作经历

2009.04 ~ 至今: 中国地质大学(北京)教授;
1999.08 ~ 2009.03: 鞍山师范学院 教授;
1998.07 ~ 1999.08: 鞍山师范学院 副教授;
1994.10 ~ 1998.07: 中国科学院青海盐湖研究所 副研究员;
1991.07 ~ 1994.09: 中国科学院青海盐湖研究所 助理研究员;

学术经历

1996.10 ~ 1997.10: 德国慕尼黑慕尼黑工业大学公派访问学者;
1999.04 ~ 1999.06: 中国科学院数学研究所访问学者;
2003.09 ~ 2003.12: 香港大学地球科学系访问学者(外方出资);
2004.01 - 至今: 中国地质大学(武汉)特聘客座教授;
2004.01 - 至今: 中国地质大学(武汉)兼职博士生导师;
2004.05 ~ 2004.11: 澳大利亚昆士兰大学环境工程学院访问学者(外方出资);
2005.07 ~ 2005.09: 香港大学地球科学系访问学者(外方出资);
2006.06 ~ 2009.03: 美国Temple University土木与环境工程系博士后(外方出资);

主持的主要科研项目

- 2011-2014: 主持国家杰出青年科学基金项目“海岸带水文地质学”, 项目编号: 41025009; 经费200万元。
- 2007-2009: 主持国家自然科学基金面上项目“潮间带湿地中的多组分多相流及其对植物生长的影响: 以海南岛东寨港红树林湿地为例”, 项目编号: 40672167; 经费40万元。
- 2004-2006: 主持国家自然科学基金面上项目“滨海地区临海浅层含水层及包气带中气水两相流的数学模拟研究”, 项目编号: 40372111; 经费30万元; 已完成。
- 2007-2008: 主持辽宁省鞍山市政府科技计划项目“鞍山市旅游区水资源可持续利用研究”; 项目编号: 2007JZ04; 经费35万元。
- 1997.10-1998.07: 在中科院盐湖研究所主持中国科学院留学经费择优支持回国工作基金课题“罚函数最小平方反求察尔汗盐湖盐层地质参数”; 项目编号: 980400; 经费: 2.0万元; 已完成。
- 1993.01-1994.12: 在中科院盐湖研究所主持中国科学院青年基金课题“察尔汗盐湖首采区采卤过程中地下晶间卤水动态规律的数学模拟”; 项目编号: A930621; 经费: 3.0万元; 已完成。

参加的主要科研项目

- 地点: 美国天普大学; 项目主持人: M. C. Boufadel 教授; 项目名称: Factors affecting the lingering of the Exxon Valdez oil in

the beaches of the Prince William Sound, Alaska; 经费来源: Exxon Valdez Trustee Council, USA; 经费: US\$1,150,000; 时间: 2007.05-2009.12.

2. 地点: 香港大学; 项目主持人: 焦起超副教授; 项目名称: Subsurface air flow induced by sea tides; 项目编号: HKU7028/05P; 经费来源: 香港特别行政区科研奖励基金委员会(RGC)资助项目; 经费: HK\$428,000; 时间: 2006.01-2008.12.

3. 地点: 澳大利亚昆士兰大学; 项目主持人: Ling Li (李凌教授), P. Nielsen; 项目名称: Water exchange and mixing at the aquifer-ocean interface; 项目编号: DP0343443; 经费来源: Australian Research Council (ARC) Discovery grants; 经费: A\$152000; 时间: 2003.01-2005.12.

4. 地点: 澳大利亚昆士兰大学; 项目主持人: D. Jeng, Ling Li (李凌), D. A. Barry; 项目名称: Wave-induced transport of pollutants in coastal sediments; 项目编号: DP0346461; 经费来源: Australian Research Council (ARC) Discovery grants; 经费: A\$287000; 时间: 2003.01-2005.12.

5. 地点: 香港大学; 项目主持人: 焦起超副教授; 项目名称: Preliminary Study on the Dynamic Interaction between Seawater and Groundwater in Coastal Areas in Hong Kong; 经费来源: Dr. Stephen S. F. Hui Trust Fund, University of Hong Kong; 经费: HK\$110000; 时间: 1999.09-2000.12.

6. 地点: 香港大学; 项目主持人: 焦起超副教授; 项目名称: Preliminary Study on Impact of Land Reclamation on Regional Groundwater Regime; 经费来源: Committee on Research and Conference Grants, The University of Hong Kong; 经费: HK\$70000; 时间: 2000.09-2002.08.

7. 地点: 香港大学; 项目主持人: 焦起超副教授; 项目名称: Tide-Induced Groundwater Level Fluctuation in Multilayered Coastal Aquifer Systems in Hong Kong; 经费来源: Committee on Research and Conference Grants, The University of Hong Kong; 经费: HK\$62000. 时间: 2001.11-2003.10.

8. 地点: 香港大学; 项目主持人: 焦起超副教授; 项目名称: Subsurface Air Flow Induced by Tidal Fluctuation; 经费来源: Committee on Research and Conference Grants, The University of Hong Kong; 经费: HK\$60000; 时间: 2002.11-2004.11.

9. 地点: 中国科学院盐湖研究所; 项目主持人: 陈克造、祁永唐研究员; 项目名称: “青海察尔汗盐湖采卤过程中水动态水化学规律及其自动观测系统的完善”; 项目编号: 85-802; 经费来源: “八五”国家重点科技攻关项目; 经费: 100.0万元; 已完成。时间: 1995.01-1995.09.

学术论文

A: SCI检索英文论文

(欢迎来函索取电子文档, Email: hailongli@cugb.edu.cn)

1) Li, Hailong and Boufadel, M.C., 2010. Long-term persistence of oil from the Exxon Valdez spill in two-layer beaches. *Nature Geoscience*, 3(2): 96-99, doi:10.1038/ngeo749.

2) Li, Hailong (通讯作者), P.P. Sun (student), S. Chen (student), Y. Xia (student), and S. Liu (student), 2010. A Falling-Head Method for Measuring Intertidal Sediment Hydraulic Conductivity. *Ground Water*, 48(2):206-211.

3) Guo, H.P., J.J. Jiao and H.L. Li, 2010. Groundwater response to tidal fluctuation in a two-zone aquifer *Journal of Hydrology*, 352(1-2): 211-224, doi:10.1016/j.jhydrol.2009.12.009.

4) Geng, X. (student), Hailong Li (通讯作者), M.C. Boufadel, S. Liu, 2009. Tide-induced head fluctuations in a coastal aquifer: effects of the elastic storage and leakage of the submarine outlet-capping. *Hydrogeology Journal*, 17(5):1289-1296. DOI10.1007/s10040-009-0439-x.

5) Li, H.L., M.C. Boufadel, and James W. Weaver, 2008. Tide-induced seawater-groundwater circulation in shallow beach aquifers, *Journal of Hydrology*, 352(1-2): 211-224, doi:10.1016/j.jhydrol.2008.01.013.

6) Li, H.L., M.C. Boufadel, and James W. Weaver, 2008. Quantifying bank storages of variably-saturated aquifers, *Ground Water*, 46(6): 841-850.

7) Sun, P.P. (student), H.L. Li (通讯作者), M.C. Boufadel, X.L. Geng, and S. Chen, 2008. An analytical solution and case study of groundwater head response to dual tide in an island leaky confined aquifer, *Water Resources Research*, 44, W12501, doi:10.1029/2008WR006893.

8) Liu, S. (student), H.L. Li (通讯作者), M.C. Boufadel, and G.H. Li, 2008. Numerical simulation of the effect of the sloping submarine outlet-capping on tidal groundwater head fluctuation in confined coastal aquifers, *Journal of Hydrology*, 361(3-4): 339-348.

9) Li, G.H. (student), H.L. Li (通讯作者), M.C. Boufadel, 2008. The enhancing effect of the elastic storage of the seabed aquitard on the tide-induced groundwater head fluctuation in confined submarine aquifer systems, *Journal of Hydrology*, 350 (1-2): 83-92, doi:10.1016/j.jhydrol.2007.11.037.

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- 11) Li, H.L., Q.H. Zhao, M.C. Boufadel, and Albert D. Venosa, 2007. A universal nutrient application strategy for the bioremediation of oil polluted beaches, *Marine Pollution Bulletin*, 54: 1146-1161, doi:10.1016/j.marpolbul.2007.04.015.
- 12) Li, H.L. (通讯作者), G.Y. Li (student), J.M. Cheng, M.C. Boufadel, 2007. Tide-induced head fluctuations in a confined aquifer with sediment covering its outlet at the sea floor, *Water Resources Research*, 43, doi:10.1029/2005WR004724.
- 13) Li, H.L. (通讯作者), L. Li, D. Lockington, M.C. Boufadel, and G.Y. Li (student), 2007. Modelling tidal signals enhanced by a submarine spring in a coastal confined aquifer extending under the sea, *Advances in Water Resources*, 30: 1046-1052, doi: 10.1016/j.advwatres.2006.09.004.
- 14) Guo, Q.N. (student), H.L. Li (通讯作者), M.C. Boufadel, Y.Q. Xia, G.H. Li, 2007. Tide-induced groundwater head fluctuation in coastal multi-layered aquifer systems with a submarine outlet-capping, *Advances in Water Resources*, 30: 1746-1755, doi:10.1016/j.advwatres.2007.01.003.
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- 17) Geng, X.L. (student), H.L. Li (通讯作者), and Y.Q. Xia, 2007. Tide-induced head fluctuations in a coastal aquifer: Effects of the elastic storage and leakage of the sediment on the seafloor, in: *Proceedings of the IPACES 6-th Annual Meeting*, June 25-28, 2007, Wuhan, P.R.China. *Journal of China University of Geosciences*, vol.18, Special Issue, p133-135.
- 18) Liu, S. (student), H.L. Li (通讯作者), and G.H. Li, 2007. Numerical simulation of the effect of the sloping submarine slit-layer covering on tidal groundwater flow, in: *Proceedings of the IPACES 6-th Annual Meeting*, June 25-28, 2007, Wuhan, P.R.China. *Journal of China University of Geosciences*, vol.18, Special Issue, p72-75.
- 19) Tian, S. (student), H.L. Li (通讯作者), and Q.N. Guo, 2007. Modeling tidal signals enhanced by a submarine spring in a coastal leaky aquifer system, in: *Proceedings of the IPACES 6th Annual Meeting*, June 25-28, 2007, Wuhan, P.R. China. *Journal of China University of Geosciences*, vol.18, Special Issue, p142-145.
- 20) Wang, Y. (student), H.L. Li (通讯作者), and Q.N. Guo, 2007. Tidal Wave Propagation in a Coastal Confined Aquifer: Effects of Leakage and Elastic Storage of Its Lower Semi-permeable Layer, in: *Proceedings of the IPACES 6-th Annual Meeting*, June 25-28, 2007, Wuhan, China. *Journal of China University of Geosciences*, vol. 18, Special Issue, p170-173.
- 21) Li, H.L. (通讯作者), J.J. Jiao, and Z.H. Tang, 2006. Semi-numerical simulation of groundwater flow induced by periodic forcing with a case-study at an island aquifer, *Journal of Hydrology*, 327: 438-446, doi:10.1016/j.jhydrol.2005.11.032.
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- 23) Li, H.L. (通讯作者), and J.J. Jiao, 2005. One-dimensional airflow in unsaturated zone induced by periodic water table fluctuation, *Water Resources Research*, 41, W04007, doi:10.1029/2004WR003916.
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- 26) Li, H.L. (通讯作者), and J.J. Jiao, 2003a. Tide-induced seawater-groundwater circulation in a multi-layered coastal leaky aquifer system, *Journal of Hydrology*, 274, 211-224.
- 27) Li, H.L. (通讯作者), and J.J. Jiao, 2003b. Influence of the tide on the mean watertable in an unconfined, anisotropic, inhomogeneous coastal aquifer, *Advances in Water Resources*, 26(1), 9-16.
- 28) Li, H.L. (通讯作者), and J.J. Jiao, M. Luk, and K. Cheung, 2002. Tide-induced groundwater level fluctuation in coastal aquifers bounded by L-shaped coastlines, *Water Resources Research*, 38(3), 1024, doi:10.1029/2001WR000556.
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- 30) Li, H.L. (通讯作者), and J.J. Jiao, 2002b. Analytical solutions of tidal groundwater flow in coastal two-aquifer system, *Advances in Water Resources*, 25(4), 417-426.
- 31) Li, H.L., and J.J. Jiao, 2001a. Tide-induced groundwater fluctuation in a coastal leaky confined aquifer system extending under the sea, *Water Resources Research*, 37(5), 1165-1171.
- 32) Li, H.L., and J.J. Jiao, 2001b. Analytical studies of groundwater-head fluctuation in a coastal confined aquifer overlain by a semi-permeable layer with storage, *Advances in Water Resources*, 24(5), 565-573.
- 33) Jiao, J.J., Subhas Nandy and H.L. Li, 2001. Analytical studies on the impact of reclamation on groundwater flow, *Ground Water*, 39(6), 912-920.
- 34) Li, H.L. (通讯作者), Q.C. Yang, 2000. A least-squares penalty method algorithm for the inverse problems of steady state aquifer models, *Advances in Water Resources*, 23(8), 867-880.
- B: 会议和国内期刊
- 35) 刘超(学生), 李海龙(通讯作者), 夏玉强, 田野, 耿小龙, 2010. 补给区温度季节性周期波动对承压含水层温度影响的解析研究. *工程勘察*. 38(1): 42-46.
- 36) 夏玉强(学生), 李海龙(通讯作者), 2009. 利用滨海地下水潮汐效应估计含水层参数: 以北海半岛为例. *地质前缘*, 16(6): 276-281.
- 37) 田野(学生), 李海龙(通讯作者), 刘双, 刘超, 郭巧娜, 夏玉强. 2009. 基于层次分析法的鞍山千山林区土壤肥力评价. *辽宁林业科技*, 5, 29-31.
- 38) 田野(学生), 李海龙(通讯作者), 刘双, 刘超, 韦立华. 2009. 基于TM遥感影像图的鞍山市千山植被变化研究[J]. *林业调查与规划*. 2009, 34(1), 54-58.
- 39) 刘超(学生), 李海龙(通讯作者), 田野, 郭巧娜, 夏玉强. 2009. 千山风景区松树死亡与土壤条件关系研究[J]. *林业调查规划*, 34(2), 53-56.
- 40) 李海龙, 任亚坤(学生), 李国徽, 郭巧娜. 2008. 露头处具有淤泥层的滨海含水层系统中海潮引起的水头波动. *地球科学-中国地质大学学报*, 33(2): 273-278.
- 41) Li, H.L., M.C. Boufadel, and A.D. Venosa, 2008. Effect of beach permeability and freshwater recharge on beach hydraulics. *Symposium of World Environmental & Water Resources Congress 2008, May 12-16, 2008, Honolulu, Hawaii*.
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- 43) Yang, Y. (student), H.L. Li, Y.Q. Xia, and P.P. Sun, 2008. An approximate analytical solution of tidal signals enhanced by a submarine spring in a coastal leaky aquifer model. In: *Proceedings of First International Conference of Modelling and Simulation, Volume 1: Modelling and Simulation in Science and Technology*. Edited by Jian-Liang Li, Yong Jiang. Nanjing, P. R. China, August.5-7, 2008, pp. 431-434.
- 44) Sun, P. P. (student), H.L. Li, S. Chen, and Y. Yang, 2008. An analytical solution of tide-induced groundwater level fluctuation in an island leaky confined aquifer. In: *Proceedings of First International Conference of Modelling and Simulation, Volume 1: Modelling and Simulation in Science and Technology*. Edited by Jian-Liang Li, Yong Jiang. Nanjing, P. R. China, August.5-7, 2008, pp. 404-409.
- 45) Chen, S. (student), H.L. Li, P.P. Sun, and Y.Q. Xia, 2008. Analytical study of measuring marine sediment hydraulic conductivity. In: *Proceedings of First International Conference of Modelling and Simulation, Volume 1: Modelling and Simulation in Science and Technology*. Edited by Jian-Liang Li, Yong Jiang. Nanjing, P. R. China, August.5-7, 2008, pp. 300-302.
- 46) 王丽(学生), 李海龙, 郭巧娜, 何方璇, 2008. 海潮引起的包气带中的气压波动. *地下水*, 30(5): 18-20.
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- 48) 张玉臣(学生), 李海龙, 郭巧娜, 王丽, 2008. 估测湿样品空气渗透系数的近似解析解. *鞍山师范学院学报*, 10(4): 5-7.
- 49) 耿小龙(学生), 李海龙, 2008. 考虑外覆淤泥层弹性储水率的滨海承压含水层系统中海潮引起的水头波动. *鞍山师范学院学报*, 10(2): 7-10.
- 50) 陈实(学生), 李海龙, 孙萍萍, 田野, 刘超, 2008. 一种现场测定海底沉积物渗透系数的新方法. *地下水*, 30(4): 113-116.

- 51) 杨颖(学生), 李海龙, 夏玉强, 孙萍萍, 2008. 海底泉对在海底有限延伸的越流含水层系统中地下水潮汐效应的增强作用. 地下水, 30(2): 09-13&17.
- 52) 孙萍萍, 李海龙, 耿晓龙, 陈实, 2008. 双侧海潮作用下海岛含水层系统中地下水位波动研究. 安全与环境工程, 15(4): 18-21.
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- 54) 耿晓龙(学生), 李海龙, 2007. 考虑淤泥层弹性储水的滨海承压含水层中海潮引起的地下水头波动. 地下水, 29(5): 25-28.
- 55) 郭巧娜(学生), 李海龙, 夏玉强, 李国徽, 2007. 滨海多层含水层系统中海潮引起的地下水位波动. 地下水, 29(2): 27-31.
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