

## **Dr. Guoquan Wang**

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### **EDUCATION**

07/1998—06/2001: Ph.D. in Solid Earth Geophysics, Institute of Geology, China Earthquake Administration, Beijing, China.

07/1996—06/1998: M.S. in Hydrogeology and Engineering Geology, Nanjing University, Nanjing, China.

08/1992—06/1996: B.S. in Geology, China University of Geosciences, Wuhan, China.

### **PROFESSIONAL EXPERIENCE**

09/2018---Present: Professor, Department of Earth and Atmospheric Sciences, University of Houston, Texas, USA.

09/2018---Present: Adjunct Professor, College of Civil Engineering, Beijing University of Technology, Beijing, China

01/2015---Present: Assistant Director, University of Houston Coastal Center (UHCC), Texas, USA.

09/2014---08/2018: Associate Professor, Department of Earth and Atmospheric Sciences, University of Houston, Texas, USA.

09/2011---08/2014: Assistant Professor, Department of Earth and Atmospheric Sciences, University of Houston, Texas, USA.

07/2011—08/2011: Associate Professor, Department of Geology, University of Puerto Rico at Mayaguez, Puerto Rico, USA (Tenured on 7/1/2011).

08/2006—06/2011: Assistant Professor, Department of Geology, University of Puerto Rico at Mayaguez, Puerto Rico, USA.

07/2004—07/2006: Research Associate, Applied Geophysical Science Laboratories, College of Arts and Sciences, North Carolina A&T State University, North Carolina, USA.

01/2004—06/2004: Visiting Research Scholar, Multidisciplinary Center for Earthquake Engineering Research (MCEER), University of New York at Buffalo, New York, USA.

06/2001—12/2003: Postdoctoral Scholar, Institute of Geophysics, Department of Geosciences, University of Munich, Germany.

## **MAJOR AWARDS**

NSF CAREER (2009)

American Society of Civil Engineering (ASCE) Outstanding Reviewer (2015)

University of Houston Teaching Excellence Award for Group Teaching (2019)

## **RESEARCH INTERESTS**

- (1) Coastal hazards (e.g., sea-level change, faulting, subsidence, wetland loss) along the Gulf Coast area
- (2) Caribbean neotectonics
- (3) GPS seismology, strong earthquake ground motion
- (4) Applications of GPS and LIDAR technologies in natural hazards studies
- (5) Geological hazard risk analysis and mitigation
- (6) Structural health monitoring
- (7) Numerical modeling---Numerical 3D simulation (e.g., Parallel Super-Computer Numerical Simulation, MPI and Finite Difference Method)

## **MAJOR REPRESENTATIVE PEER-REVIEWED JOURNAL PUBLICATIONS**

(\*denotes graduate student/postdoc under my primary supervision)

- (1) Zhang, Y., **Wang**, G., Zhu, X., Yu, D., Liang, H., & Wang, X. (2024). Comparative study on land subsidence monitoring and control in the Shandong Plain, China and the Greater Houston Area, USA. *Hydrogeology & Engineering Geology*, 51(1), 167–178.  
<https://doi.org/10.16030/j.cnki.issn.1000-3665.202301025>

- (2) **Wang, G.** (2023). A methodology for long-term offshore structural health monitoring using stand-alone GNSS: Case study in the Gulf of Mexico. *Structural Health Monitoring*, 23(1), 463–478. <https://doi.org/10.1177/14759217231169934>
- (3) **Wang, G.** (2023). The 95 per cent confidence interval of the mean sea-level rate derived from tide gauge data. *Geophysical Journal International*, 235(2), 1420–1433. <https://doi.org/10.1093/gji/ggad311>
- (4) Yu, X.\*, **Wang, G.**, Hu, X., Liu, Y., & Bao, Y. (2023). Land subsidence in Tianjin, China: Before and after the South-to-North Water Diversion. *Remote Sensing*, 15, 1647. <https://doi.org/10.3390/rs15061647>
- (5) Liu, Y.\*, **Wang, G.**, Yu, X., & Wang, K. (2023). Sentinel-1 InSAR and GPS-integrated long-term and seasonal subsidence monitoring in Houston, Texas, USA. *Remote Sensing*, 14(23), 6184. <https://doi.org/10.3390/rs14236184>
- (6) Cornelison\*, B., & **Wang, G.** (2023). GNSS\_Vel\_95CI.py: A Python module for calculating the uncertainty of GNSS-derived site velocity. *Journal of Surveying Engineering*, 149(1), 06022001. [https://doi.org/10.1061/\(ASCE\)SU.1943-5428.0000410](https://doi.org/10.1061/(ASCE)SU.1943-5428.0000410)
- (7) **Wang, G.** (2023). Seasonal subsidence and heave recorded by borehole extensometers in Houston, Texas. *Journal of Surveying Engineering*, 149(1), 04022018. <https://doi.org/10.1061/JSUED2.SUENG-1369>
- (8) **Wang, G.** (2023). New preconsolidation heads following the long-term hydraulic-head decline and recovery in Houston, Texas. *Groundwater*, 61(5), 674–691. <https://doi.org/10.1111/gwat.13271>
- (9) Yu, X.\*, Hu, X., **Wang, G.**, Wang, K., & Chen, X. (2022). Machine-learning estimation of snow depth in 2021 Texas statewide winter storm using SAR imagery. *Geophysical Research Letters*, 49, e2022GL099119. <https://doi.org/10.1029/2022GL099119>
- (10) **Wang, G.** (2022). The 95% confidence interval for the GNSS-derived site velocities. *Journal of Surveying Engineering*, 148, 04021030. [https://doi.org/10.1061/\(ASCE\)SU.1943-5428.0000390](https://doi.org/10.1061/(ASCE)SU.1943-5428.0000390)
- (11) **Wang, G.**, Greuter, A., Petersen, C. M., & Turco, M. J. (2022). Houston GNSS network (HoustonNet) for subsidence and faulting monitoring: Data analysis methods and products. *Journal of Surveying Engineering*, 148, 04022008. [https://doi.org/10.1061/\(ASCE\)SU.1943-5428.0000399](https://doi.org/10.1061/(ASCE)SU.1943-5428.0000399)

- (12) Liang, S., Gan, W., Xiao, G., **Wang**, G., Dai, C., Zhang, K., Dai, D., Li, Z., Zhang, L., Zhang, Y., et al. (2022). Strong ground motion recorded by high-rate GPS during the 2021 Ms 6.4 Yangbi, China, earthquake. *Seismological Research Letters*, 93, 3219–3233. <http://doi.org/10.1785/0220220013>
- (13) **Wang**, G., & Bao, Y. (2022). GNSS landslide monitoring aligned to regional reference frames. *Acta Geodaetica et Cartographica Sinica*, 51(10), 2107–2116. <http://doi.org/10.11947/j.AGCS.2022.20220308>
- (14) Wang, K.\*, **Wang**, G., Cornelison, B., Liu, H., & Bao, Y. (2021). Land subsidence and aquifer compaction in Montgomery County, Texas, U.S.: 2000–2020. *Geoenvironmental Disasters*, 8, 28. <https://doi.org/10.1186/s40677-021-00199-7>
- (15) Zhou, X.\*, **Wang**, G., Wang, K., Liu, H., Lyu, H., & Turco, M. J. (2021). Rates of natural subsidence and submergence along the Texas coast derived from GPS and tide gauge measurements (1904-2020). *Journal of Surveying Engineering*, 147(4), 04021020. [https://doi.org/10.1061/\(ASCE\)SU.1943-5428.0000371](https://doi.org/10.1061/(ASCE)SU.1943-5428.0000371)
- (16) Greuter, A., Turco, M. J., Petersen, C. M., & **Wang**, G. (2021). Impacts of groundwater withdrawal regulation on subsidence in Harris and Galveston counties, Texas, 1978-2020. *GeoGulf Transactions*, 71, 109–118.
- (17) Bao, Y., **Wang**, G., Yu, X., Zhao, R., Xiao, G., Xu, J., & Gan, W. (2021). Northeast China stable reference frame: NEChina20. *Geodesy & Geodynamics*, 41(9), 899–910.
- (18) Bao, Y., Yu, X., **Wang**, G., Zhou, H., Ding, X., Xiao, G., Shen, S., & Zhao, R. (2021). SChina20: A stable geodetic reference frame for ground movement and structural deformation monitoring in South China. *Journal of Surveying Engineering*, 147(3), 04021006. [https://doi.org/10.1061/\(ASCE\)SU.1943-175428.0000352](https://doi.org/10.1061/(ASCE)SU.1943-175428.0000352)
- (19) Bao, Y., **Wang**, G., Yu, X., Xiao, G., Ding, X., Zhao, R., & Gan, W. (2020). Establishment and application of the stable North China reference frame: NChina20. *Earthquake Research in China*, 36(4), 788–805.
- (20) Ke, X.\*, Xie, J., Zhang, Z., Zou, Y., & **Wang**, G. (2020). Quaternary stratigraphic division and paleoenvironmental evolution observed from core LZK1 on Hengsha Island, Shanghai. *Acta Geologica Sinica (English Edition)*, 94(4), 1167–1177. <https://doi.org/10.1111/1755-6724.14564>

- (21) Guo, W.\*, Li, P., Bao, Y., Zhang, M., Gao, Y., **Wang**, G., Li, R., & Duan, X. (2020). High-accuracy GPS monitoring of riverbed deformation due to shield tunneling. *Journal of Beijing University of Technology*, 46(5), 490–499. <https://doi.org/10.11936/bjutxb2019030019>
- (22) Guo, W.\*, **Wang**, G., Bao, Y., Zhang, M., Sun, X., Zhao, R., & Gan, W. (2020). Tilt and settlement monitoring of high-rise buildings using GNSS precise point positioning and seasonal ground deformation. *Geomatics and Information Science of Wuhan University*, 45(07). <https://doi.org/10.13203/j.whugis20190015>
- (23) Zhao, R., **Wang**, G., Yu, X., Sun, X., Bao, Y., Xiao, G., Gan, W., & Shen, S. (2020). Rapid land subsidence in Tianjin, China derived from continuous GPS observations (2010–2019). *Proceedings of the IAHS-the International Association of Hydrological Sciences*, 97. <https://doi.org/10.5194/piahs-97-1-2020>
- (24) Agudelo, G.\*, **Wang**, G., Liu, Y., Bao, Y., & Turco, M. J. (2020). GPS geodetic infrastructure for subsidence and fault monitoring in Houston, Texas, USA. *Proceedings of the IAHS-the International Association of Hydrological Sciences*, 97. <https://doi.org/10.5194/piahs-97-1-2020>
- (25) **Wang**, G., Zhou, X., Wang, K., Ke, X., Zhang, Y., Zhao, R., & Bao, Y. (2020). GOM20: A stable geodetic reference frame for subsidence, faulting, and sea-level rise studies along the coast of the Gulf of Mexico. *Remote Sensing*, 12(3), 350. <https://doi.org/10.3390/rs12030350>
- (26) Xiong, L.\*, **Wang**, G., Bao, Y., Zhou, X., Wang, K., Liu, H., Sun, X., & Zhao, R. (2019). A rapid terrestrial laser scanning method for coastal erosion studies: A case study at Freeport, Texas, USA. *Sensors*, 19(15), 3252. <https://doi.org/10.3390/s19153252>
- (27) Guo, W.\*, **Wang**, G., Bao, Y., Li, P., Zhang, M., Gong, Q., Li, R., Gao, Y., & Zhao, R. (2019). Detection and monitoring of tunneling-induced riverbed deformation using GPS and BeiDou: A case study. *Applied Sciences*, 9(13), 2759. <https://doi.org/10.3390/app9132759>
- (28) Liu, Y.\*, Sun, X., **Wang**, G., Turco, M. J., Agudelo, G., Bao, Y., Zhao, R., & Shen, S. (2019). Current activity of the Long Point Fault in Houston, Texas constrained by continuous GPS measurements (2013–2018). *Remote Sensing*, 11(10), 1213. <https://doi.org/10.3390/rs11101213>

- (29) **Wang, G.**, Liu, H., Mattioli, G., Miller, M., Feaux, K., Braun, J. (2019). CARIB18: A stable geodetic reference frame for geological hazard monitoring in the Caribbean region. *Remote Sensing*, 11, 1-35. <https://doi.org/10.3390/rs11060680>
- (30) Kearns, T. J.\*, **Wang, G.**, Turco, M., Welch, J., & Tsibanos, V. (2019). Houston16: A stable geodetic reference frame for subsidence and faulting study in the Houston metropolitan area, Texas, U.S. *Geodesy & Geodynamics*, 10(5), 382-393. <https://doi.org/10.1016/j.geog.2018.05.005>
- (31) Xiong, L.\*, **Wang, G.**, Bao, Y., Zhou, X., Sun, X., & Zhao, R. (2018). Detectability of repeated airborne laser scanning for mountain landslide monitoring. *Geosciences*, 8(12), 469. <https://doi.org/10.3390/geosciences8120469>
- (32) **Wang, G.**, Bao, Y., Gan, W., Geng, J., Xiao, G., & Shen, J. S. (2018). NChina16: A stable geodetic reference frame for geological hazard studies in North China. *Journal of Geodynamics*, 115, 10-22. <https://doi.org/10.1016/j.jog.2018.01.003>
- (33) Bao, Y.\*, Guo, W., **Wang, G.**, Gan, W., Zhang, M., & Shen, J. S. (2018). Millimeter-accuracy structural deformation monitoring using stand-alone GPS: Case study in Beijing, China. *Journal of Surveying Engineering*, 144(1), 05017007. [https://doi.org/10.1061/\(ASCE\)SU.1943-5428.0000242](https://doi.org/10.1061/(ASCE)SU.1943-5428.0000242)
- (34) **Wang, G.**, Turco, M., Soler, T., Kearns, T., & Welch, J. (2017). Comparisons of OPUS and PPP solutions for subsidence monitoring in the greater Houston area. *Journal of Surveying Engineering*, 143(4), 05017005. [https://doi.org/10.1061/\(ASCE\)SU.1943-5428.0000241](https://doi.org/10.1061/(ASCE)SU.1943-5428.0000241)
- (35) Zhou, X.\*, **Wang, G.**, Bao, Y., Xiong, L., Guzman, V., & Kearns, T. J. (2017). Delineating beach and dune morphology from massive terrestrial laser scanning data using the generic mapping tools. *Journal of Surveying Engineering*, 143(4), 04017008. [https://doi.org/10.1061/\(ASCE\)SU.1943-5428.0000223](https://doi.org/10.1061/(ASCE)SU.1943-5428.0000223)
- (36) Xiong, L.\*, **Wang, G.**, & Wessel, P. (2017). Anti-aliasing filtering for deriving high-accuracy DEMs from TLS data: Case study at Freeport, Texas. *Computers & Geosciences*, 100, 125-134. <https://doi.org/10.1016/j.cageo.2016.11.006>
- (37) Yu, J.\*, & **Wang, G.** (2017). Introduction to the GNSS geodetic infrastructure in the Gulf of Mexico region. *Survey Review*, 352(49), 51-65. <https://doi.org/10.1080/00396265.2015.1108069>

- (38) Lyu, H., **Wang**, G., Shen, J. S., Lu, L., & Wang, G. (2016). Analysis and GIS mapping of flooding hazards on 10 May 2016, Guangzhou, China. *Water*, 447(8). <https://doi.org/10.3390/w8100447>
- (39) Yang, L.\*, **Wang**, G., Huerfano, V., von Hillebrandt-Andrade, C. G., Martínez-Cruzado, J. A., & Liu, H. (2016). GPS geodetic infrastructure for natural hazards study in the Puerto Rico and Virgin Islands region. *Natural Hazards*, 83(1), 641-665. <https://doi.org/10.1007/s11069-016-2344-7>
- (40) Soler, T., & **Wang**, G. (2016). Interpreting OPUS-Static results accurately. *Journal of Surveying Engineering*, 142(4), 05016003. [https://doi.org/10.1061/\(ASCE\)SU.1943-5428.0000191](https://doi.org/10.1061/(ASCE)SU.1943-5428.0000191)
- (41) Yu, J.\*, & **Wang**, G. (2016). GPS derived ground motions (2005–2014) within the Gulf of Mexico region referred to a stable Gulf of Mexico reference frame. *Natural Hazards and Earth System Sciences*, 16(7), 1583-1602. <https://doi.org/10.5194/nhess-16-1583-2016>
- (42) Yang, L.\*, **Wang**, G., Bao, Y., Kearns, T. J., & Yu, J. (2016). Comparisons of ground-based and building-based CORS: A case study in the Puerto Rico and Virgin Islands region. *Journal of Surveying Engineering*, 142(3), 05015006. [https://doi.org/10.1061/\(ASCE\)SU.1943-5428.0000155](https://doi.org/10.1061/(ASCE)SU.1943-5428.0000155)
- (43) **Wang**, G., Welch, J., Kearns, T. J., Yang, L., & Serna, J. (2015). Introduction to GPS geodetic infrastructure for land subsidence monitoring in Houston, Texas, U.S.A. Proceedings of the Ninth International Symposium on Land Subsidence, Nov. 15-19, 2015, Nagoya, Japan. *Proc. IAHS*, 92, 1–7. <https://doi.org/10.5194/piahs-92-1-2015>
- (44) Liu, H.\*, & **Wang**, G. (2015). Delineating relative motion between St. Croix and the Puerto Rico-Virgin Islands block using continuous GPS observations (1995-2014). *International Journal of Geophysics*, 915753, 1-9. <https://doi.org/10.1155/2015/915753>
- (45) **Wang**, G., Bao, Y., Cuddus, Y., Jia, X., Serna, J. J., & Jing, Q. (2015). A methodology to derive precise landslide displacements from GPS observations in tectonically active and cold regions: A case study in Alaska. *Natural Hazards*, 77, 1939-1961. <https://doi.org/10.1007/s11069-015-1684-z>
- (46) Kearns, T. J.\*, **Wang**, G., Bao, Y., Jiang, J., & Lee, D. (2015). Current land subsidence and groundwater level changes in the Houston metropolitan area, Texas

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[https://doi.org/10.1061/\(ASCE\)SU.1943-5428.0000147](https://doi.org/10.1061/(ASCE)SU.1943-5428.0000147)
- (47) Antuna, J. C., Miller, M., Mattioli, G., Feaux, K., Anthes, R., Braun, J., **Wang**, G., & Robock, A. (2014). Partnering with Cuba: Weather extremes. *Science*, 345(6194), 278.
- (48) Yu, J.\*, **Wang**, G., Kearns, T. J., & Yang, L. (2014). Is there deep-seated subsidence in the Houston-Galveston area? *International Journal of Geophysics*, 942834, 1-11. <https://doi.org/10.1155/2014/942834>
- (49) **Wang**, G., & Soler, T. (2014). Measuring land subsidence using GPS: Ellipsoid height vs. orthometric height. *Journal of Surveying Engineering*, 141(2), 05014004.  
[https://doi.org/10.1061/\(ASCE\)SU.1943-5428.0000137](https://doi.org/10.1061/(ASCE)SU.1943-5428.0000137)
- (50) **Wang**, G., Yu, J., Kearns, T. J., & Ortega, J. (2014). Assessing the accuracy of long-term subsidence derived from borehole extensometer data using GPS observations: Case study in Houston, Texas. *Journal of Surveying Engineering*.  
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- (51) **Wang**, G., Kearns, T. J., Yu, J., & Saenz, G. (2014). A stable reference frame for landslide monitoring using GPS in the Puerto Rico and Virgin Islands region. *Landslides*, 11(1), 119-129. <https://doi.org/10.1007/s10346-013-0428-y>
- (52) **Wang**, G., Yu, J., Ortega, J., Saenz, G., Burrough, T., & Neill, R. (2013). A stable reference frame for ground deformation study in the Houston metropolitan area, Texas. *Journal of Geodetic Science*, 3(3), 188-202. <https://doi.org/10.2478/jogs-2013-0021>
- (53) **Wang**, G., & Soler, T. (2013). Using OPUS for measuring vertical displacements in Houston, TX. *Journal of Surveying Engineering*, 139(3), 126-134.  
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- (55) **Wang**, G., Joyce, J., Phillips, D., Shrestha, R., & Carter, W. (2013). Delineating and defining the boundaries of an active landslide in the rainforest of Puerto Rico using a combination of airborne and terrestrial LIDAR data. *Landslides*, 10(4), 503-513.  
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- (56) **Wang, G.** (2013). Teaching high-precision GPS to undergraduates using online processing services. *Journal of Geoscience Education*, 61(2), 202-212.  
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- (59) **Wang, G.**, & Soler, T. (2012). OPUS for horizontal subcentimeter-accuracy landslide monitoring: A case study in the Puerto Rico and Virgin Islands region. *Journal of Surveying Engineering*, 138(3), 135-143. [https://doi.org/10.1061/\(ASCE\)SU.1943-5428.0000079](https://doi.org/10.1061/(ASCE)SU.1943-5428.0000079)
- (60) **Wang, G.**, Blume, F., Meertens, C., Ibanez, P., & Schulze, M. (2012). Performance of high-rate kinematic GPS during strong shaking: Observations from shake table tests and the 2010 Chile earthquake (M 8.8). *Journal of Geodetic Sciences*, 2(1), 1-16. <https://doi.org/10.2478/v10156-011-0020-0>
- (61) **Wang, G.** (2012). Kinematics of the Cerca del Cielo, Puerto Rico landslide derived from GPS observations. *Landslides*, 9(1), 117-130.  
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- (62) **Wang, G.** (2011). GPS landslide monitoring: Single base vs. network solutions, a case study based on the Puerto Rico and Virgin Islands Permanent GPS Network. *Journal of Geodetic Sciences*, 1(3), 191-203. <https://doi.org/10.2478/v10156-010-0022-3>
- (63) **Wang, G.**, Phillips, D., Joyce, J., & Rivera, F. O. (2011). The integration of TLS and continuous GPS to study landslide deformation: A case study in Puerto Rico. *Journal of Geodetic Science*, 1(1), 25-34. <https://doi.org/10.2478/v10156-010-0004-5>
- (64) **Wang, G.**, Boore, D. M., Tang, G., & Zhou, X.-Y. (2007). Some observations on collocated and closely spaced 1-second sampled GPS and ground-motion accelerograph

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- (66) **Wang, G., Tang, G., Boore, D. M., Burbank, G. V., Jackson, C. R., Zhou, X.-Y., & Lin, Q.** (2006). Strong surface waves observed in the Western Coastal Plain of the Taiwan Island from one aftershock of the 1999 Chi-Chi, Taiwan, earthquake. *Bulletin of the Seismological Society of America*, 96, 821-845.
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- (69) **Wang, G., Boore, D. M., Igel, H., & Zhou, X.-Y.** (2004). Comparisons of ground motions from five aftershocks of the 1999 Chi-Chi, Taiwan earthquake with empirical predictions largely based on data from California. *Bulletin of the Seismological Society of America*, 94, 2198-2212.
- (70) **Wang, G., & Zhou, X. Y.** (2004). Baseline correction of near-fault ground motion recordings caused by 1999 Chi-Chi, Taiwan earthquake. *Earthquake and Geology*, 26(1), 1-15.
- (71) **Wang, G., Boore, D. M., Igel, H., & Zhou, X.-Y.** (2003). Some observations on collocated and closely spaced strong ground motion records of the 1999 Chi-Chi, Taiwan earthquake. *Bulletin of the Seismological Society of America*, 93, 674-693.
- (72) **Wang, G., & Zhou, X. Y.** (2003). The randomness of near-fault acceleration time history of the 1999 Chi-Chi, Taiwan, earthquake. *Journal of Hazard Resistant and Mitigation Engineering*, 23(4), 10-18.

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- (77) **Ma, Z.-J., & Wang, G. (1999).** Strip-shaped tectonic zonation of contemporary lithospheric structure of East China. *Geology Journal of China Universities*, 1, 25-27.
- (78) **Wang, G., Ma, Z. J., Zhou, X. Y., & Su, G. W. (1999).** Study on several post-earthquake fires of Japan and America. *Journal of Natural Disasters*, 8(3), 72-79.
- (79) **Wang, G., & Li, X. Z. (1999).** A preliminary research on potential effect of underground engineering on groundwater environment. *Engineering Geology*, 7(1), 15-19.
- (80) **Wang, G., Luo, G.-Y., & Li, X.-Z. (1998).** Optimization of construction scheme of Xuanwu lake subaqueous highway tunnel. *Hydrogeology and Engineering Geology*, 2, 35-40.
- (81) **Wang, G., Luo, G.-Y., & Li, X.-Z. (1998).** Application of box culvert jacking in Xuanwu lake subaqueous highway tunnel scheme. *Exploration Engineering (Drilling & Tunneling)*, 5, 50-52