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SCI 文章：

1. Wu, Y. M., Y. J. Hsu, C. H. Chang, L. S. Teng, and M. Nakamura (2010) Temporal and spatial variation of stress field in Taiwan from 1991 to 2007: Insights from comprehensive first motion focal mechanism catalog, *Earth Planet. Sci. Lett.*, 298, 306-316.
2. Chen, C. H., C. H. Wang, Y. J. Hsu, S. B. Yu, and L. C. Kuo (2010) Correlation between groundwater level and altitude variations in land subsidence area of the Choshuichi Alluvial Fan, Taiwan, *Engineering Geology*, 115, 122-131.
3. Hsu, Y. J., L. Rivera, Y. M. Wu, C. H. Chang, and H. Kanamori (2010) Spatial heterogeneity of tectonic stress and friction in the crust: new evidence from earthquake focal mechanisms in Taiwan, *Geophys. J. Int.* 182, 329-342.

4. Hsu, Y. J., S. B. Yu, M. Simons, L. C. Kuo, and H. Y. Chen (2009) Interseismic crustal deformation in the Taiwan plate boundary zone revealed by GPS observations, seismicity, and earthquake focal mechanisms, *Tectonophysics*, 479, 4-18.
5. Hsu Y. J., J. P. Avouac, S. B. Yu, C. H. Chang, Y. M. Wu, and J. Woessner (2009) Spatio-temporal slip, and stress level on the faults within the western foothills of Taiwan: Implications for fault frictional properties. *Pure and Applied Geophysics*, 166, 1853-1884.
6. Chen, H. Y., Y. J. Hsu, J. C. Lee, S. B. Yu, L. C. Kuo, C. C. Liu and C. S. Tsai (2009) Coseismic displacements and slip Distribution inferred from GPS and leveling observations for the 2006 Peinan Earthquake (Mw 6.1) in southeastern Taiwan, *Earth Planets Space*, 61, 299 – 318, 2009 [[pdf](#)]
7. Hsu, Y. J., S. B. Yu, and H. Y. Chen (2009) Coseismic and postseismic deformation associated with the 2003 Chengkung, Taiwan earthquake. *Geophys. J. Int.* 176, 420-430 [[pdf](#)]
8. Wu, Y. M., L. Zhao, C. H. Chang, and Y. J. Hsu (2008) Focal-mechanism determination in Taiwan by genetic algorithm, *Bull. Seismol. Soc. Am.*, 98, 651-661.
9. Hsu, Y. J., P. Segall, S. B. Yu, L. C. Kuo, and C. A. Williams (2007) Temporal and spatial variations of postseismic deformation following the 1999 Chi-Chi, Taiwan earthquake, *Geophys. J. Int.*, 169, [367-379](#).
10. Hsu, Y. J., M. Simons, J.-P. Avouac, J. Galetzka, K. Sieh, M. Chlieh, D. Natawidjaja, L. Prawirodirdjo and Y. Bock (2006) Frictional afterslip following the Mw 8.7, 2005 Nias-Simeulue earthquake, Sumatra, *Science*, 312, 1921-1926.
11. Briggs, R. W., K. Sieh, A. J., Meltzner, D. Natawidjaja, J. Galetzka, B. Suwargadi, Y. J. Hsu, M. Simons, N. Hananto, I. Suprihanto, D. Prayudi, J.-P. Avouac, L. Prawirodirdjo, and Y. Bock (2006) Deformation and slip along the Sunda megathrust in the great 2005 Nias-Simeulue earthquake, *Science*, 311, 1897-1901
12. Yu, S. B., Y. J. Hsu, L. C. Kuo, H. Y. Chen, and C. C. Liu (2003) GPS measurement of postseismic deformation following the 1999 Chi-Chi, Taiwan, earthquake, *J. Geophys. Res.*, 108, 10.1029/2003JB002396, 2003.
13. Hsu, Y. J., M. Simons, S. B. Yu, L. C. Kuo, and H. Y. Chen, (2003) A two-dimensional dislocation model for interseismic deformation of the Taiwan mountain belt, *Earth Planet. Sci. Lett.*, 211, 287-294.
14. Hsu, Y. J., N. Bechor, P. Segall, S. B. Yu, L. C. Kuo, and K. F. Ma (2002) Rapid afterslip following the 1999 Chi-Chi, Taiwan, earthquake, *Geophys. Res. Lett.* 29, 10.1029/2002GL014967.
15. Kuo, L. C., S. B. Yu, Y. J. Hsu, C. S. Hou, Y. H. Lee, C. S. Tsai, and C. S. Chen (2002). Impact of a large earthquake on a GPS network: The case of the 1999 Chi-Chi, Taiwan, earthquake, *Survey Review*, 36, 423-431.
16. Yu, S. B., L. C. Kuo, Y. J. Hsu, H. H. Su, C. C. Liu, C. S. Hou, J. F. Lee, T. C. Lai, C. C. Liu, C. L. Liu, T. F. Tseng, C. S. Tsai, and T. C. Shin (2001) Preseismic deformation and coseismic displacements associated with the 1999 Chi-Chi, Taiwan earthquake, *Bull. Seism. Soc. Am.* 91, 995-1012.
17. Johnson, K. M., Y. J. Hsu, P. Segall, and S. B. Yu (2001) Fault geometry and slip distribution of the 1999 Chi-Chi, Taiwan earthquake imaged from inversion of GPS data, *Geophys. Res. Lett.*, 28, 2285-2288.

其他文章：

1. Chen, C.H., Wang, C.H., Hsu, Y.J., Yu, S.B. and Kuo, L.C. (2009) Groundwater level variations and land subsidence in the Choshuichi Alluvial Fan. *Journal of Engineering Environment*, 22:119-132. (in Chinese with English abstract)

博士論文

1. 許雅儒，(2004) 集集地震之震前、同震及震後變形模式研究，國立中央大學，133 頁